

A Complete Bibliography of Publications in *Journal of Computational Physics*: 2000–2009

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA

Tel: +1 801 581 5254

FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu, beebe@acm.org, beebe@computer.org (Internet)

WWW URL: <https://www.math.utah.edu/~beebe/>

30 November 2023

Version 1.10

Title word cross-reference

+ [MC07b]. 1 [BBDE05, BWLM09, DH07, Hor02, JBHK08, LC06a, LLIK01b, LW07, Mac07, RMF08, VBL07, vDZ06]. 1 + 1 [VWW04]. $1/n$ [Boy09]. $1/\nu$ [SKK⁺08]. $1/r$ [HB05a]. 1000 [PWS⁺02]. 10^7 [MT03]. 13 [GE07]. 2 [AV05, AMXL09, BMN07, BCE⁺09, BRC⁺09, BBvdV06, Ber06b, BMQS02, CD03, CJSS08, CGMS06, CdHST08, CBKM00a, CBKM00b, CK03, CL00b, DS06b, DH07, Eld07, ES06, EKP06, GS05a, GS06a, GH03, GHB03, GKL03, Gui03, GLLX08, HWL08, HH01, HS08c, JHSZ07, KB04, KPP09, LGP09, LDN04, LS00, LC03, MP07a, Meh04, MAL09, OJW06, PAD07, PCP08, PVPS09, Rom02, Rom07, RFVP09, RW03, SROCdPFF05, SA09, TS02, VGS04, VL07, VGZB09, WM09, WFC09, WZ09, XMT06, YM07, YJF⁺06, ZZ01, Zha02, ZK05, ZJW06, ZJWC08]. 2 + 1 [Wan04a]. 2.5 [CTT08]. 25 [UL06]. 3 [AFGM07, Alb00, ASQR06, AMXL09, ALGM01, AQ00, BM02, BO05, BM06, BWLM09, BPO07, BPL06, BGS08, CD04, CWJ07, CPG04, CGN⁺07, CBB01, CLL⁺07b, CJ07, CL00b, CP04c, Dar02, DBF08, DGP00, DB04, EHST03, EKBL09, EAY01, GH03, GS07, GW02, GSB03, GS05c,

HAAO00, Her09, HSL08, JHSZ07, KKCF09, LS02b, LG05, LJ09a, LH08a, LF04, LL08b, LZH⁺06, MKM99, MKM04, MKLU05, MG07a, MSYL00, MP01b, NCW⁺09, OTCM08, ORM06, ON08, PSC04, PVPS09, QS07, RWWS07, RW08, RKE⁺07, RVVL09, SWG08, SMP01, SL07a, SPLM09, Stu01, SP00, TJS03, TPR05, VGBZ09, WGS06, YBZ06, YJF⁺06, ZYKW01, ZTPM05, dHRvdB07, dSMN⁺04, vZdBB07]. 4 [GBB⁺06]. 500 [PWS⁺02]. 96 [FVE04]. = 300 [PWS⁺02]. + [CL07a, CL08b, GIA⁺08, Lio06]. - [Saf00]. α [APR09, AL01, HHPW08, LNXNTX09, PHW08]. B [Saf00]. β [CK03]. C^0 [LL06a, LLZ07]. C^∞ [GC02a]. d^2/dx^2 [Lab09]. δf [CP03c, CP07, HM09, IITV07]. f [HJKO08, IITV07]. H [CD00, BRP05, KvRvdVvdV07, RFFP06, WM09]. K [Gos02, MG05a, ML06b]. M [Edw00]. M^3 [LMS08]. \mathbf{R}^3 [BGN08, VZSL07]. μ [Mac03]. N [BADG00, BDS07, DHM03, FT09, MG05a, MC07b, PGB05, PRL03, TWYC06, WPM⁺02b]. $\nabla \cdot \mathbf{B} = 0$ [Tót00]. ν [Mac01, SH07b]. $O(1)$ [Pau07]. $O(N)$ [Deh02, HBHS09, YBS06, PO01]. $O(n^2)$ [Gon07]. ω [AQV02, BMQS02, ML06b]. P [QS01, FOLD05, LBL06b, VBL07, WM09]. P_N [FKLY07, LTK⁺02, MELD08, Ols09, WK01b, MHB08]. P_{N-2} [WK01b]. $P_N P_M$ [DZ09b]. ± 2 [WJV07]. ψ [AQV02, BMQS02]. q [CL06a]. Q^2 [KN04]. r [CHR01, CJ04, CK07, WLT08]. $R^{-\nu}$ [SH07b]. S^1 [COV04]. S^2 [COV04]. S^3 [Bey09]. $S\bar{D}$ [SB06a]. z [CK07, GGRS08].

-Adaptive [CHR01, CJ04, RFFP06, WLT08]. **-Body** [BADG00, WPM⁺02b, BDS07, DHM03, MG05a, MC07b, PGB05, PRL03, TWYC06]. **-Branch** [Gos02]. **-D** [Alb00, ASQR06, AMXL09, ALGM01, BO05, CJSS08, CPG04, CL00b, Dar02, EKP06, GKL03, Hor02, JHSZ07, KB04, KPP09, Mac07, MP07a, MSYL00, MP01b, PAD07, RW08, Stu01, TS02]. **-diagonal** [UL06]. **-DSMC** [Mac01, Mac03]. **-Interpolation** [GC02a]. **-Matrix** [Edw00]. **-means** [MG05a]. **-Multigrid** [FOLD05, KvRvdVvdV07, LBL06b, VBL07]. **-Polarization** [CD00]. **-sphere** [BCE⁺09]. **-stretching** [GGRS08]. **-T** [AMXL09, JHSZ07]. **-topology** [Bey09]. **-up** [CL08b, CL07a, Lio06]. **-Weighted** [AL01].

/Lagrange [WZ07, Boy06]. **/Lagrange-distributed** [WZ07, Boy06].

1121 [Aza09]. **13-moment-equations** [TS08]. **138** [DKX01]. **151** [LLIK01a]. **152** [MKM04]. **172** [MPC02]. **173** [LM03a]. **177** [Lau06]. **185** [DD03a, SCC⁺03a]. **196** [HLWW06]. **199** [MN17]. **1D** [LLIK01a].

2 [Tol08]. **200** [Tol02a]. **207** [NTYT02]. **217** [Mil07]. **218** [JJGL07]. **225** [CL08b]. **227** [HMS08b, SM09b, dTWD09]. **228** [ABRR09b, HY11, WZL09b].

3-dimensional [SP06a]. **3624** [SM09b]. **3852** [Har04].

4 [Ano04-27, TT06c]. **406** [PW01].

70 [HT00b].

Abe [WLC⁺08]. **absolute** [Sus06]. **absorbers** [OK07b]. **Absorbing** [ABK09, CL00b, HLL08, NB04, Rah04, Vay00, AMR06, AK06b, AC09, Bér07, BHNPR07, GT09c, HMOG08, HK04a, HZ08, Hu05, MTH08, XHW07].

Absorption [Vay02, CFGK05]. **Abstracts**

[Ano00q, Ano00r, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano00g, Ano00h, Ano00i, Ano00j, Ano00k, Ano00l, Ano00m, Ano00n, Ano00o, Ano00p, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f, Ano01g, Ano01h, Ano01i, Ano01j, Ano01k, Ano01l, Ano01m, Ano01n, Ano01o, Ano01p, Ano01q, Ano01r, Ano02a, Ano02b, Ano02c, Ano02d, Ano02e, Ano02f, Ano02g, Ano02h, Ano02i, Ano02j, Ano02k, Ano02l, Ano02m, Ano02n, Ano02o, Ano02p, Ano02q, Ano02r].

accelerate [VTW⁺07]. **Accelerated** [SH07b, BMN07, CL08d, CS08a, JH08, LCM07, PVPS09, Sam09, VS07, YWC07, ZD05]. **Accelerating**

[BCK09, Bow01, HJM06, PS02, PFB01, Saf00]. **Acceleration**

[Boy09, CRB⁺08, CAL00, DIV00, FH00a, Gen01, GTD⁺02, ISNY05, VCM00, WFTS05, CV06, FWP09, HDR⁺06, MN09b, MYW07, PPB09, STR07b].

accelerator [ASQR06]. **Accelerators** [QRHD00, ZW05]. **Accuracy**

[BS00a, BL01, CP06a, GZ01, HT00a, HT00b, IA06a, JMP02, KPB08, LP00, MOG09, MP01b, RRV01, ST01, TRL01, XSL09, YC02, ZSP02, AHNS09, AG09, AT08, BRDM09, BBC⁺06, CS08c, DSM09b, DWC⁺09, DET08, FDD07, FK09b, GS03a, GGF03, GP05, Hel09a, HAP06, KMS03, LL09, LH05a, Lar09, LMN⁺09, LX09, NPPN06, OS04, RB09b, RSO04, SN06, THS07, VL07, YMWM06, YS07c, ZJS08]. **Accurate** [AK05, AQV02, BL08, BR09b, BCM01, BHP07, Bus00, CL02, DDF01, EGHE06, EAY01, FP02, FPT05, FF03, GCGE03, GFCK02, JL04b, KC00, KKR01a, KKR01b, KK05c, KK05d, Kul01, OLA08, Oh04, OGV02, PKP01, RGK07, SCT06, SAKDJ05, hRT02, VQSZ02, YP01, YL01, AM03, AM04, BW06, BCL06, BY07, BC05, Bea08, BSLN09, BGLN05, CL07a, CL08b, CQRW05, DPRN05, De 04, DMP08, DDS09, EG08, FKV08, FB08, GF05a, GHMP07, Gri09, HHC08, HF08b, KE06, KT06, KK05b, KfV07, KB06, KQW03b, LP06a, LRZ04, MvW08, MSS08, MHI08, MY06b, MG07a, MOG09, Mig07, MG06, MG07d, MG08, MT07b, NOG08b, OK07a, PP04, Pop09, PMP08, RVD09, RDPN07, SGFL09, SM04, SPM03, SYC09, TMS06, TM07, VQLZ04, WM07, ZVQ07].

Accurately [KG09]. **ACE** [VS07]. **Achieving** [HAP05]. **ACM** [SZH07].

Acoustic [DFT01, ES03b, Man02, ME09, PL01, SFW00, VCP00, WPM02a, ACR08, BHNPR07, CDR09, FNS07, GB08a, HSQ03, IQT08, KP08, KSGF09, LS09, LP04b, MDR07, SDD07, SG03a, TJ09, Tsy03]. **acoustics**

[CFR04, Cap05, Cap06]. **across** [KT06, TLL⁺08, Wu01]. **Action**

[SZ01, MGS09]. **Actions** [BLW01]. **Active** [HGM⁺00, XCY06]. **actuated**

[KB08]. **actuators** [LTL⁺09]. **Adaptation**

[DIV00, HLS02a, Hua01b, VD00, VD02, Yam01, AFGM07, BFC04a, BFC04b, DCF⁺08, Dwi08, FL03, HZ07a, HS03b, JHSZ07, Lap04, LC06a, VD03].

adaptative [BdCB09]. **Adapted** [PW07]. **Adaptive**

[AS09, ABGV02, AZC05, Bal01, BMRS01, BDR⁺04, BL01, BK07, BJP04, CHR01, CH01, CJ04, CBL01, CFJ09, DS05a, DV02, DPR00, DGH02, Dys01, ELW04, GTD00, Ham07, HH02a, JLT06, KS08a, KKP02, LLH02, LZT09, LLdlP⁺00, LK01, MR00, MKOW04, MC00a, MK04b, NDT06, OV00, PL04, PC06b, SMO00, Sun00, WSTW09, WPCR07, WB09b, XHW07, YC02, ZT07a, ZLAC05, ZQ09, dSAK00, AHF04, AA09, AKV06, ASPB03, AEP04, Aza07, Aza09, BGR08, BLG⁺08, BLM04, BL05, BEG03, COQ06, CR07, CL06b, CL03a, CC07, CXZ09, CMG09, CHL06b, CY05, CFP08, DAJ07, DW09, DLD⁺06, DLT09, DS06a, DGRS08, FYH⁺06, FD07, FK09b, FM06, Gre04, GHMP07, HT07, HPD09, HS03a, HS06, HS08a, HAD06, HG03, JX06, KI05, KAS06, KAA⁺07, KPP07, KLP⁺09, LG09, LFSS07, LHR⁺07].

adaptive [LJSM08, LP04a, LL04b, LR07, LP09, MK08a, MZ09, MCG08, MU09, MK08b, Men04, MG07b, MG06, MG07d, MC07b, MHE06, MSB07b, NT07, OK06c, PSCB08, PDHP07, PCP08, Pop03, Pop09, PRL03, RGK07, RJM07, RFFP06, RSTB03, Ryc05, SS07b, SPGR06, ST03b, SRX07, TLK07, TTZ03, TSB03, TFD06, TDGP06, TMG08, TK04, VP09a, VK05a, WK05, WW04, WT07b, WTL08, WLT08, WM09, WHS08, WKL07, XLM07, YMT⁺04, YJL⁺06, YBZ04, YF09, YT07, YZF⁺06, ZK06, ZSC08, vdV08].

adaptivity [CMR08, Ngu07]. **addition** [BO09]. **Additive** [ODCK07, HC05, SRM09, XYK05]. **additive-correction** [XYK05]. **ADER** [BRDM09, KI05, SDM04, Tak06, TT05a, TT05b, TT06a, VTT08]. **adhesion** [ZDD09]. **ADI** [KZ04, NN09, SCC09, Wel07, You06]. **Adiabatic** [AKV00, RV09, BG07, BZ04]. **Adjacent** [Azm02]. **Adjacent-Cell** [Azm02]. **Adjoint** [CKvT07, CSV00, DCS00, IFZ01, LP04a, NA08, PG04, PL08, Pro08, SDCC05, UH01, VD00, WM09, DL03a, FLE03, HPS06a, MAN⁺06, PS03a, PBH04, WGS⁺08, YA05]. **Adjoint-based** [CKvT07, PL08, Pro08, WM09]. **Adjoint**s [TH01, SZ08]. **adjustable** [HKM07]. **Adjusting** [KG09]. **Admitting** [BH09]. **advance** [VTC⁺07]. **Advanced** [TBT⁺09, CSC⁺08]. **advancement** [PMP08]. **Advances** [CP04c, GR01]. **Advancing** [Set01, JP03]. **Advecting** [RMB07]. **Advection** [CL00a, DPCV02, DB00, FMO00, HFO01, HF00, MBP00, MHS02, OGV02, RS09a, TH01, TS02, XY01, AMSZ03, AMS03, AMSZ07, Bal08, BD08, CMSZ09, DPRN06, ELW04, LLTA07, LHGF04, MP08, NZ05, Pud06, RBS06, SCT09, SD06, Sou09, VSH04, XP04a, YA05]. **Advection-Diffusion** [CL00a, HFO01, MHS02, OGV02, DPRN06, NZ05, SCT09, YA05]. **Advection-diffusion-reaction** [RS09a, VSH04]. **Advection-Dispersion** [MBP00, LLTA07]. **advection-reaction** [ELW04]. **advective** [Löh04, PC08]. **advective-dispersive** [PC08]. **AEGIS** [ZK06]. **Aequorea** [SM09a]. **aerial** [HSW07]. **aero** [MWM08]. **aero-optical** [MWM08]. **Aeroacoustic** [Fre00, HRV08, KKK08, PGN08, SMS04]. **Aeroacoustics** [CL01b, SHA08, SSD00, AHNS09, Cap06, Kim07, MRS09, SM06a, SFMP06]. **Aerodynamic** [HSBG05, IFZ01, CKvT07, EHD08]. **aerodynamics** [Liu09a]. **aeroelastic** [WB09b]. **aerosol** [Mar09]. **aerosols** [DSJ03]. **Affordable** [IR09]. **Aggregation** [LBD02, BPO07, Lau06, LL06b]. **agreement** [OB06].

Aided [VP00]. **Air**

[FCB02, SD00, SMO00, WB01, CSC⁺08, CN08, NJLA06, SDCC05].

Air-Quality [SMO00]. **Airflow** [ZK04]. **airway** [ZK04]. **al** [SM09b].

Alamos [Har04]. **ALE** [AK06a, CYS06, CHCOB09, ÉGP09, FGG01, GGF03, JC02, LBL04, MY06a, MSB07b, NJX09, TT06c, VGS04]. **ALE-type**

[NJX09]. **AlGaNd** [GS05a]. **AlGaNd/GaN** [GS05a]. **Algebraic**

[GSV06, HH02b, HMMO05, AHPT07, HJM07, LSS⁺09, Rah04, VSG05].

algebraically [Boy09]. **algebraically-converging** [Boy09]. **Algorithm**

[AGT02, AGT05, Asl01, BFG07, BM01a, BLW01, BD01, BZB00, BK01, CS01a, CRB00, CBKM00a, CBKM00b, CYKC01, CL00b, CBL01, DKX00, DKX01, Deh02, DB00, FGOV00, FV01, GTD00, GK02, HF00, HCG01, HLS00, JPMC01, Lar09, LBD02, LTZ02, MK02a, MD01, Mu02, Noe00, PR00, PWW00, PM00, PA00, SR00a, Shy01, SMO00, TSB01, TK02, VG01, VCP00, ZD00, ZD08, Abr07, Abr09, AA06, AL06, AMS04, BHL07, BMN07, BIVC07, BB09b, BOK⁺06, BP07, CXB08, CGP05, CRAG07, CPKW09, CW08, CK08, CZ09, CLS09a, CJK⁺03, CK07, Den07, Dim07, DS06a, DDS09, DTSC04, DLMK04, EKP06, EKP07, FT06, FHD⁺09, FD09b, FBHV05, FCD⁺06, GTRB09, GG04, GH08a, Gib04, GvH06, GSB03, GKD09, GG09b, GV06, GGCC09, HS07a, HNF07, HM05, HC05, KD09, KKS05, KZWY09].

algorithm

[KGJ05, KF06, KAA⁺07, KW03, KT07, LLY05, Lau06, LPK05, LLC06, LJSM08, LZ04, LAKD08, LJ09a, LOK05, LLGL07, LP09, MZ09, MPD03, MM03, MCGV04, MC03, Moo03, MDS03, MK07, NOG08b, NVD05, NVD07, NMG09, Nic09, NCW⁺09, NFA03, OLLL03, OMK09, PMP08, Pro03, PRL03, RVD09, RJ06, RBL04, RSTB03, SDGX07, SLF08, SLG⁺03, SL07b, SA06, SMP09, SS06b, Shy04, SC09a, Sti05, SK04b, SRX07, TSB03, TC09b, VPMC04, VS09, VSV03, VBL07, Wal03, WGS06, WB09a, WC07, XDB09, XCRX08, YMW06, YBS06, YBZ04, Yin06, Yok07, ZH04, ZSC08, ZD05, ZGSD06, vdV08].

Algorithmic [DTS05a]. **Algorithms** [BSJ01, BT02, Boy02a, DDF01, FKV08, GTD01, KKP02, KKV07, KYK07, Lem00, MLS01, MPC01, MPC02, OV00, PM02, RS02, RRV01, SSW01, SK06, AvdB04, ASPB03, AST09, BCK09, BDGL05, Boy04, BUEG06, CHL06a, CFS09, CB03, CC03, DVHM05, DHM03, DEHL06, ELVE07, Fas03, FD03, HJFW04, KK03b, KKS07, Kuz09, LMX⁺08, LK09, LSW06, LCCG05, MD04, MC07a, Nit05, PP04, PVR07, Ram03, RVM07, RA09, SS09b, SMB09, SCC09, Sto07, Tyg08, Wag05, FS00a].

Alias [Pop00]. **aliasing** [KG08, KK03b, SVB09]. **Aligned**

[KKR01b, GYKL05, NLLE06]. **Aligning** [HLKS00]. **alignment** [BGM08].

all-electron [HBHS09]. **all-scale** [PS03b]. **All-Speed** [sLwG08, BN09].

Alleviation [Lee09]. **Alloy** [SZ01, GJK09, LW06, RJM07, TZ07c, ZVHP03].

alloys [JVVS07, KGJ05, TZ07a]. **allspeed** [GBC06]. **Almost** [Tan05a].

along [JJGL06, JJGL07]. **alpha** [LNXNTX09]. **Alternative**

[KJ01, Boy04, HLMM07, MKKY06, Pro08]. **aluminum** [MV06]. **Ampère**

[HF01]. **amplification** [BCG09]. **Amplified** [Li01]. **Amplitude**

[VCP00, CF06a, CSMH05, KTD03, MV08, PPCW06, TMND07]. **AMR**

[SO08, YF09, vdHK07]. **analyses** [SCT09, YKK08]. **Analysis** [AA02, BZ04, Bod06, BC02b, BE02, CFS09, CGP02, DMG00, DE06, DCV⁺01, ELW01, FLG01, GGL⁺01, HA02, JM00, KMHR00, LMK03, LS02b, Mac00, MG02, PD01, PM07, Pon09, Sai02, SHWW00, SGD03, SCD00, Spo00, UH01, VCP00, Wel07, WK01b, Woo06, YXU01, YMWM06, YS07c, AA09, AJT04, AL06, AZ05, Bal08, BBD04, BV05, BDGL05, BCR04, BS09a, BCM⁺07, BDCG03, BHP07, CLB08, CLLG09, CRAG07, CDI09, CN05, CGH05, CJ04, CFJ09, DVHM05, DL04, DWLM09, DMG04, FWK08, GB08a, GGF03, GD06a, Ham07, HNGB04, HT03, IM05, IA06a, JKL05, KK05b, KRT⁺09, KLM07, KKS07, Kry04, LNGK04, LTZ03, LP04a, sLwG08, LY04, LJ07, LRS09, LMK09, MK08a, NU09, OK07b, PKKL05, PS07a, PIN09, Pir07, PA07a, PBH04, RVVL09, RM07, SBA07, SDCC05, SDS07, SVB09, SRNV07, SL07c]. **analysis** [SM06b, TX06, VCT07, VGPL09, VBJ08a, VK04, WGNT06, XS07, ZGSD06, dHRvdB07, dNWvSD07, dTWD09]. **Analytic** [AI09, YJ06, YMF01, BB08a]. **Analytical** [BEE06, LH08a, NFvS⁺06, Ren07, SZ00, Chu09, JR03, LHD05, LT09a, NDG05, SB06a]. **Analyzing** [LWG03]. **anchored** [NT07]. **anelastic** [BM06, CPG04, GBC06, PS03b]. **aneurysms** [YXLF05]. **Angle** [FSY00, LWDA09]. **angles** [AZB09]. **Angular** [Car01]. **animal** [HSW07]. **Anisotropic** [BFC04a, FL03, HLS02a, JW02, LMSV00, QS01, VD03, BHR03, BFJ03, BFC04b, Bur05, BHSV07, CP05, Chr04, DT03, Hua05, JC06a, KE09, KSS09, Lar07, LLY05, MP07a, MD06, MSB07b, RBH03, SKS08, SH07c, WC07, WKL07]. **Anisotropy** [EV03]. **Annealing** [FH02, PA00, Pav07]. **Announcement** [Bra01, Ano05s]. **Anomalies** [KS02a]. **antenna** [LVL05]. **Antennas** [VR02]. **Anti** [XS05c]. **Anti-diffusive** [XS05c]. **Antiplane** [LAS01]. **apparatus** [JR03]. **Appear** [Ano00q, Ano00r, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano00g, Ano00h, Ano00i, Ano00j, Ano00k, Ano00l, Ano00m, Ano00n, Ano00o, Ano00p, Ano01g, Ano01h, Ano01i, Ano01j, Ano01k, Ano01l, Ano01m, Ano01n, Ano01o, Ano01p, Ano01q, Ano01r, Ano02a, Ano02b, Ano02c, Ano02d, Ano02e, Ano02g, Ano02h, Ano02i, Ano02j, Ano02k, Ano02l, Ano02m, Ano02n, Ano02o, Ano02p, Ano02q, Ano02r, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f, Ano02f]. **applicability** [LTZ03]. **Application** [AFGM07, AKH06, ADK00, ADK02, BS01, BF07, CWT00, CA06, Che00a, Chr03, DLS⁺00, FM06, GV08, GSD01, GPH⁺01, HCG01, IYI⁺02, JC02, KCGH07, LX00, LS05a, MPP01, ML06a, MZ07, MSP⁺06, ML06b, NCW⁺09, NGC⁺07, PSC⁺06, PWS⁺02, QL01, RAD07, RXH02, RFVP09, Set01, SHWC07, SSC00, UBRT07, VOD08, VVS08, Vay01, VD00, VD02, Xu01a, XHW07, ZWS07, ZLAC05, ZRR00, AC09, AD04, BBD04, BZ08, BB07b, Boy03, BRB03, CLS⁺06, CP03a, CMSZ09, DDK06, DHM03, DBB06, Dwi08, DBS06, FDD09a, GLMH09, GS03b, Hua07, KP07, KP08, LHZW05, LLL07, LMZ⁺08, ML05, MY03, Mil04, MG07c, NS05, PPDM08, PSC04, QS04, SR09a, SSE03, SW04b, SZC09, SLC07, SNLS03, Sme06, SRX07, Tsy04, VBL07, VB08, VD03, Wea09, WJV07, WH05, XSG08, YZLH09, YXLF05, YE05, dSHHM05]. **Application** [VBJ08b]. **Applications** [BS04d, BK01, Che00b, DC01,

DR09a, LTK⁺02, LWW04, BS05, CP06b, CP06c, DIL03, DDFT09, FVE04, FD03, FWK08, GF05a, Hoh06, Jar04, KK03b, KK04, Lee03, LG05, LXM09, LSW06, MESV09, MG07b, ON08, PR04a, RBSL06, SS08, SK08b, SK06, WSYS09, WS09, YLD09, ZZ07, ZXQX08, vdHK07, DTS05b]. **Applied** [BS00e, DCS00, DSS00, EAY01, PG02b, RH01b, VR02, VSMW01, BB04a, BRC⁺09, CHG⁺07, CMR08, DB04, FS04, HS09a, Jar04, KKO04, LC03, Mac07, MWM03, Mad06, MM03, Ram06, RVVL09, SB06b, SDD07, YSS05, ZZVM08, vDZ06]. **applying** [AZB09]. **Approach** [AS02, BL01, Bor00, BCMO01, CBMO02, DSS00, DI02, FH00b, FCB02, GPH⁺01, LS02a, LP02, PSN00, SSC00, SSD00, AA07, AA09, AK07, AG09, AHMS03, Asl04a, AGW07, Bae03, BL09b, BF08, BB09a, BL09c, BCM⁺07, BEA09, BHSV07, BB09c, CORT09, CGL06, CM06, CCJ07, CL07a, CL08b, CSMH05, CQRW05, CHCOB09, CVE06, DSJ03, DP09, DLW04, DST07b, FHW07, FLB03, FHLK05, FD09b, GJK09, HZ07a, HAS05, HA09, IQ08, Jia07, JZ08, JG09, JCT07, Kas07, KR09b, Lap03, LTZ03, LL04b, LDW07, LL06a, MR06a, MGCR07, Meh04, MWG⁺06, MV06, NJLA06, NM06, Nat06, NVD07, Nis07, OF06, OVG07, Pal08, PPD08, PGB05, PSD09, PP09, Pee03, PSC⁺06, PCS⁺09, PA05, RR07, RSS09, RF06, Ryc05, SB06a, Spe05, SG03b, SBC04, TC07a, TZ07c, Tan08, TGB⁺07, TdAAP08, UYK⁺04]. **approach** [VC03, VZSL07, WD07, XSG08, XSL09, YAvdB⁺08, ZG08, ZL04, Zhe07]. **Approaches** [KLvBvL02, KMSH08, KK04, LTD⁺06, MLSD07, dWKL07]. **approximants** [CDI09]. **Approximate** [LP01, SWTM01, SL03, BDRT09, Gui05, GF05b, HBLD07, MK05, RBT03, YLD09]. **approximating** [Boy06, Her09, Tow09b, WZ03]. **Approximation** [BISS01, FSY00, Her00, LLTA07, SKAS01, ACR08, BGN08, BBW06, BLL03, BS06a, CCV03, CWYM08, CHCOB09, CF04, DP08, DI09, FDK06, FKLY07, GH03, GM04, Gos04, GM06, GV06, HLO08, Kas07, KYLB07, Ngu07, PAD07, PP09, ST06, SK05, Sme06, SKW05, TMS06, Tsu06, VGCN05, WZ07, WO05, WO09, YS06, dFJS09]. **Approximations** [BJM02, BSJ01, Dur00, LTK⁺02, MG02, RV00, SFY01, Boy05b, CHH06, DC07, Gro06, Gro07, KCMM03, LCB04, LX07a, Lur07, MN04, MN17, RB06, RM07, SVH⁺06, Sou09, SN06, Tol07, Tol08, TE04, Tow08, TFDK04, XDC09, ZC09]. **aquatic** [HSW07]. **aquifers** [WGNT06]. **Arakawa** [DF07]. **arbitrarily** [BCDW06, EG08, KC06, LL07, TRSK09]. **Arbitrary** [AMH04, DK07, Goe00, GBS00, HPZ01, HJM07, KMS02, LY04, AEP04, BAYZ08, BR09b, BTW03, CDDL09, Cec05, COQ06, GT09b, Gel06, GF05a, HLO08, KZWY09, KK05a, KZ06, LSB04, LY07a, LHZW05, LKMU05, LS05b, LBL08, Min03, NMH⁺07, Nik06, NPPN06, PS07a, RWWS07, SM09a, SB09, Tol07, Tol08, XDC09, YCL05, YFBH07]. **arbitrary-Lagrangian** [LS05b]. **arbitrary-order** [Tol07, Tol08]. **Arbitrary-pressure** [AMH04]. **arc** [PL09a]. **arc-like** [PL09a]. **Architectures** [BLW01]. **Arctic** [MR01]. **area** [AMSZ03, AMS04, JCT07, ZL08a]. **area-preserving** [AMSZ03, AMS04]. **areas** [GPC07]. **arguments** [De 04]. **arising** [BST03, BO04, CFS09, HJ09, TDV06]. **Arnol'd** [SP07]. **array** [CWJ07].

arrays [LVL05, LJ07]. **art** [VTM⁺08]. **arterial** [XS07]. **artery** [YXLF05].
article [LM03a, MCP03, TR07]. **Artificial** [CS01a, FT01, HDC02, Kel05, PFSL07, RTT01, SD05a, SD05b, STiST02, Tsy03, Xu01c, BCDR06, BL09c, CL06a, EZ08b, FL07, KL08, KR09b, MLM09, Owe04, RBH03, zSW06, zS06].
artificially [ST03a]. **Aspect** [AJG01, Car01, BJP04]. **Aspect-Ratio** [Car01]. **Aspects** [Hua01a, HMK02, SW08c, Ano04z, MR03, Sus06, VCG03, dWKL07].
assembly [JRS05, Moo03]. **Assessment** [Mav02, Ano08-50, Lar09, Maz06, MGS07, SM09b]. **Assimilation** [DCS00, LCS02, KFH⁺04]. **Assisted** [BMS00, SKXK05]. **Associated** [SS01a, FL06, GD06a]. **assumption** [CGP05]. **astrophysical** [BvdHK07, KSW07, RFFP06]. **Asymmetric** [Vay02]. **asymmetrical** [FG05]. **Asymptotic** [BD06, CLB08, CGL08, CS04, DDSV09, DL04, GK01, JKL05, MC09, BLW04, BNNP06, CDV07, KYLB07, sLwG08, ML08].
asymptotic-preserving [ML08]. **asymptotically** [JAK05]. **asymptotics** [BLM08]. **asynchronous** [FDL08, KDOO05, SA06, UBRT07]. **atmosphere** [LHR⁺07, SW08c]. **Atmospheres** [DKSW01]. **Atmospheric** [Bon00, GR08, RWMK03, SZ08, SMT⁺08, SK08b, TW05, TR07]. **Atom** [CP00, CWWZ00, VCTS02, BRB03, BBK06]. **Atomic** [AC01, LD09b, SG03b, TLAD04]. **Atomistic** [EH02, FK09a, KZ06, LCNR07, MKL06, Ren07, WL03, WWK05].
Atomistic-Continuum [EH02, KZ06, Ren07, WWK05].
atomistic-mesoscopic-continuum [FK09a]. **atomization** [DMP08].
Atoms [VDM⁺02]. **attached** [TLAD04]. **attachment** [BHL⁺04, Lap03].
attachment-detachment [BHL⁺04]. **attitude** [San03]. **Attraction** [Saf00].
Augmented [Geo08, HB02, IQ08, ILL09]. **AUSM** [CL08b, CL07a, Lio06].
AUSMPW [KKR01a]. **Author** [Ano00s, Ano00t, Ano00u, Ano00v, Ano00w, Ano00x, Ano00y, Ano00z, Ano00-27, Ano00-28, Ano01s, Ano01t, Ano01u, Ano01v, Ano01w, Ano01x, Ano01y, Ano01z, Ano01-27, Ano01-28, Ano02s, Ano02t, Ano02u, Ano02v, Ano02w, Ano02x, Ano02y, Ano02z, Ano02-27, Ano02-28, Ano03-27, Ano03-28, Ano03-29, Ano03-30, Ano03-31, Ano03-32, Ano03-33, Ano03-34, Ano03-35, Ano04-28, Ano04-29, Ano04-30, Ano04-31, Ano04-32, Ano04-33, Ano04-34, Ano04-35, Ano04-36, Ano05-29, Ano05-30, Ano05-31, Ano05-32, Ano05-33, Ano05-34, Ano05-35, Ano05-36, Ano05-37, Ano06-28, Ano06-29, Ano06-30, Ano06-31, Ano06-32, Ano06-33, Ano06-34, Ano06-35, Ano06-36, Ano07-33, Ano07-34]. **Authors** [Ano03q, Ano03r, Ano03s, Ano03t, Ano03u, Ano03v, Ano03w, Ano03x, Ano04q, Ano04s, Ano04u, Ano04v, Ano05w, Ano05x, Ano05y, Ano05z, Ano05-27, Ano05-28, Ano06t, Ano06u, Ano06v, Ano06w, Ano06x, Ano06y, Ano06z, Ano06-27, Ano07z, Ano04r, Ano04t, Ano04w, Ano04x, Ano04y, Ano05t, Ano05u, Ano05v]. **Auto** [VG01]. **Auto-ignition** [VG01].
automated [KAS08]. **Automatic** [CSV00, GT05]. **Automatically** [HvHHS05]. **Automaton** [LMSV00, LGN05]. **autonomous** [BM01c].
Autophobic [HLZ02]. **auxiliary** [Bae03, KKM08, MK06]. **Avalanches**

[TNGH02, FNBB⁺08]. **average** [KD09, KLLJ09, Yus06]. **averages** [ZIP06]. **Averaging** [LR01a, PS07c]. **avoid** [ZSW07]. **avoiding** [CSO09, KSGF09]. **aware** [ML06a]. **Axis** [CL02]. **Axisymmetric** [BBG⁺02, Car02, CS00, GP00a, LG03a, Lem00, Mie00, Nie01, RH01b, SP00, TCM⁺00, AK09, ACLS03, BZ08, FJ09, FBHV05, GV07, GLLN09, Kel05, LN09, OCFF08, PSCQ03, SLF08, VGBZ09, ZK06].

B [CP04a, KMJ01, WdND06]. **B-** [WdND06]. **B-spline** [DD03a, KMJ01, DD03b]. **B-splines** [CP04a]. **B.** [Aza09]. **Back** [DL03b]. **background** [LGKP07]. **Backscattering** [FT01, GS09a, HS07b]. **Backtracking** [TWS02]. **backward** [RFVP09]. **backward-facing** [RFVP09]. **Baer** [AW04]. **bag** [BB09a]. **Bake** [Li01]. **Balance** [FR02, CT08a, CPKW09, DET08, EHD08, LTD⁺06, MKOW04, VCZS04]. **Balanced** [CZVS04, LR01b, Xu02b, AB05b, BES07, BKLL04, CVB06, FCD⁺06, GPC07, Her08, KCMM03, LMNK07, Mou04, NPPN06, NXS07, RF06, WSYS09, XS06]. **balanced-force** [FCD⁺06]. **Balancing** [DPR00, HGN00, MG05a, RBT03]. **ballistic** [BMN07]. **Ballooning** [CGC⁺09, SHWW00]. **bamboo** [AINR03]. **bamboo-type** [AINR03]. **Band** [CD00, DGP00, DBB06, Dur08, KGJ05, LW09, SP05c, VTW⁺07, WHLL03]. **Bands** [DFT01, BZ04]. **bandwidth** [MTWW06]. **bandwidth-optimized** [MTWW06]. **bare** [AINR03]. **baroclinic** [AL08]. **barotropic** [LHR⁺07, Shy04, vBK03]. **barriers** [JN07]. **Based** [AV02, BSJ01, BW02, BMRS01, BM01b, BT02, GTD⁺02, HMS08b, HK02, IFZ01, Jan00, JL02, KMS02, LC01, LTZ01, LLdIP⁺00, MD01, MKR00, MOS⁺00, Noe00, OB02, OCK⁺02, PX02, PR01b, PM00, QV01, RS02, Rom02, SS02, SC01, Sum00, TK00, Tol02a, Tol02b, WW00, WS01, ZTZ02, AvdB04, ACGV07, AHPT07, AL06, BNV08, BAMD07, BBB08, BLG⁺08, BdCB09, BG05a, CXB08, CKvT07, CR05, CR07, CdHST08, CS05, CP06b, CP06c, CLL⁺07b, CBH03, CRB⁺08, CQRW05, CGM07, CLS09b, De 04, DCF⁺08, DFV08, DLD⁺06, DLD08, DS05b, DDS09, Eld08a, ES03b, FSS03, Fox08, Fox09, FMR09, GGMN⁺09, GCNB07, GKD09, GW05, Gir06, GG09b, Gra06a, GS09c, HMM08, HW08, HMS08a, HV03, HKO07, HLL08, IKS⁺09, JD09, JRS05, JC06a, JL04b, KOQ08, KZWW09, KGJ05, KfV⁺05, KSJ03, KNH05]. **based** [KL06, KS08b, KP08, KT04, KT07, Lap04, Lap03, LSA06, LWG03, LJSM08, LB03a, LZ09b, LZ09a, LTZ03, LX09, LQX06, LW07, LW09, LHGF04, LBL07, LBL08, MLSD07, kM07a, Mil06, Mil07, MT07b, MDS03, MK03, MHdB07, MO06, Neo07, NJX08a, NCS03, NFA03, NDT06, OCFF08, ODCK07, PDHP07, PNMK09, Pop03, PL08, Pro08, QT08, QL04, QKS06, RWMK03, RKE⁺07, RK07, Ros03, SBA07, SC08a, SKWN03, Ser09, SPM03, SD05a, SD05b, SO08, SAM05, Shy06, SHP07, SS05b, SHPC09, SZH07, TBT⁺09, Ten03, Tol07, Tol08, TU04, TCO⁺04, Tsy04, TY07, Tuc03, VTC⁺07, WW04, WM09, WSTW09, WFC09, WS09, XCY06, XSL09, YF09, YS06, ZR08, ZSC08, ZSP08, ZHSS09, dSM05]. **Bases** [ABGV02, ZSC07].

Basic [BK01, FHLO08, IX09, LVW06a, Wan02, AL06, LKNG01, Wan02].
Basis [AP02, GTD01, HL06a, OMK09, PB00, SC01, BZ08, CQO04, DR09a, FW07, FP08b, GH08a, GS06b, GG09b, HBHS09, LCW04, LJW07, LBL08, MT07b, NG06a, Ngu07, Ngu08, RA09, SC08a, SVH⁺06, TB09, TW03, UYK⁺04, Wag05, WFTS05, WF06, Yin06]. **Baths** [CS01b]. **bathymetry** [Che04]. **Bayesian** [Kou09, MNR07, MN09b]. **bead** [LWF⁺08]. **bead-spring** [LWF⁺08]. **beads** [KM08b]. **Beam** [QRHD00, BBF⁺08, DZ09a, DDGS09, FCJ08a, GGRS08, QFR04, SHY07, TET09]. **beam-beam** [QFR04]. **beams** [HDBW05, KM03, LQ09]. **Bearing** [WB01]. **BECool** [CGC⁺09]. **Bed** [PCCD00, HC08, RC06, RF06, RMF08, Sar03]. **beds** [QP03]. **behavior** [AKH06, GTRB09, KMID05, SK04a]. **behaviors** [LJ09b]. **Behaviour** [WWVG00, Ain04, DVHM05, Dur08, KKO04, sLwG08]. **behind** [VG01]. **belonging** [SS09b]. **Beltrami** [HZ07a]. **BEM** [MMS04]. **Bénard** [CA06, TC02]. **Benchmark** [FS00b, DLMK04, DOW08, LW06, SL07c, VBL03]. **bend** [BCZ04]. **bending** [DLW04, DLW06]. **Bessel** [GST02, Nas08, Saf02]. **best** [Lab09]. **beta** [GLN06]. **Bethe** [Mai03, Mai04]. **between** [ACK02, BBHM09, DJM05, Eg07, FG07, GHV00, HDBW05, IA06b, JA08, KK09, KMSH08, KM08b, MRS09, OB06, PC02, VLW07, VZSL07, YM07, ZKDT07]. **Beyond** [SDS07, PKD07]. **Bézier** [CH08, DAJ07]. **BFGS** [Abr09]. **BGK** [CKR01, Xu01b, CKR00, CDL04, CDL05, FH00a, FH00b, GSW00, LF06, MSJ07, Mie00, PPCW06, SY08, Xu01c, XH03, XMT05]. **bi** [AKH06, HHM04, KH07]. **bi-period** [AKH06]. **bi-periodic** [HHM04, KH07]. **bias** [ME09, TG04]. **biased** [BBHM09, FG05, JAK05, PYC04]. **bidimensional** [BS06b]. **bidirectional** [ES03a]. **Bidomain** [GGMN⁺09]. **bifluid** [GV08]. **Bifurcation** [DSS00, SML02, dNWvSD07, dTWD09]. **BiGlobal** [KRT⁺09]. **biharmonic** [Bia03, GD06b]. **bilayer** [FK06]. **bimodal** [Wea09]. **bin** [WXG07]. **Binary** [IYI⁺02, SZ01, FWP09, LW06, RJM07, TBT⁺09, Wan04b, YU05a, ZVHP03]. **Bingham** [VBL03]. **Bins** [TRL01]. **biological** [CDDH07, JRS05, KL06, LD06, LMZ⁺08, MWM03]. **biology** [MG07b, NGC⁺07]. **biomolecular** [LCM07]. **biomolecule** [CXB08]. **biorthogonal** [ELW04]. **Biot** [BQQ09]. **Bipartite** [RS02]. **birth** [NSC09]. **Bistable** [SSC00]. **black** [FD09a, LCH03]. **black-box** [FD09a]. **black-oil** [LCH03]. **blackholes** [Lau04]. **BLAS** [CFR08]. **blast** [BWLM09, SL04]. **blended** [Ros03]. **Blending** [Lar09]. **blends** [AKH06]. **Blind** [CJLS09]. **Blob** [CM00, BB04a]. **Bloch** [BBR01, BS06b, Gos04, Lin01, LW09]. **Block** [CP06b, MC07b, PPC00, PSH⁺08, CHB09, Cho05, EHST03, EHS⁺08, GGMN⁺09, NGvdWS09, PSC⁺06, SCT06, TDGP06, TMG08, WR09, YLD09, vdHK07]. **block-adaptive** [TDGP06, TMG08]. **block-AMR** [vdHK07]. **block-triangular** [GGMN⁺09]. **block-tridiagonalization** [WR09]. **blood** [CGN⁺07, GGCC09, LL06b, XDB09, YXLF05]. **blood-tissue** [XDB09]. **blowup** [HMR08, MJ09a]. **Bluff** [JML⁺01, PW00b, PW01, PWS⁺02, KIH09]. **Bluff-Body** [JML⁺01]. **blunt**

[BP04a, BP04b, HEN09]. **blunt-body** [HEN09]. **board**
 [Ano03l, Ano04a, Ano04b, Ano04c, Ano04d, Ano04e, Ano04f, Ano04g, Ano04h, Ano04i, Ano04j, Ano04k, Ano04l, Ano04m, Ano04n, Ano04o, Ano04p, Ano05a, Ano05b, Ano05c, Ano05d, Ano05e, Ano05f, Ano05g, Ano05h, Ano05i, Ano05j, Ano05k, Ano05l, Ano05m, Ano05n, Ano05o, Ano05p, Ano05q, Ano05r, Ano06a, VGL⁺07, Ano03a, Ano03b, Ano03c, Ano03d, Ano03e, Ano03f, Ano03g, Ano03h, Ano03i, Ano03j, Ano03k, Ano03m, Ano03n, Ano03o, Ano03p, Ano06b, Ano06c, Ano06d, Ano06e, Ano06f, Ano06g, Ano06h, Ano06i, Ano06j, Ano06k, Ano06l, Ano06m, Ano06n, Ano06o, Ano06p, Ano06q, Ano06r, Ano06s, Ano07f, Ano07g, Ano07h, Ano07i, Ano07j, Ano07k, Ano07l, Ano07m, Ano07n, Ano07o, Ano07p, Ano07q, Ano07r, Ano07s, Ano07t, Ano08a, Ano08b, Ano08c]. **Board** [Ano08d, Ano08e, Ano08f, Ano08g, Ano08h, Ano08i, Ano08j, Ano08k, Ano08l, Ano08m, Ano08n, Ano08o, Ano08p, Ano08q, Ano08r, Ano08s, Ano08t, Ano09a, Ano09b, Ano09c, Ano09d, Ano09e, Ano09f, Ano09g, Ano09h, Ano09i, Ano09j, Ano09k, Ano09l, Ano09m, Ano09n, Ano09o, Ano09p, Ano09q, Ano09r, Ano09s, Ano09t, Ano09u, Ano09v, Ano09w, Ano09x]. **Bodies** [GPH⁺01, LAS01, PW00b, PW01, Alb09, BGS08, BP08, CYS06, CC08b, EG08, FWW04, GS05c, HB05b, KM08a, KT06, KRT⁺09, TZL05, YM07, vZS07]. **Body** [BADG00, Bus00, JML⁺01, Mai01, PWS⁺02, WPM⁺02b, Alb08, BCDW06, BDS07, BP04a, BP04b, DHM03, Eld07, Eld08a, Fas03, HEN09, JD04, KIH09, KC06, Mai03, Mai04, MG05a, MZ07, MC07b, PGB05, PRL03, San03, SG03b, TWYC06, Vil08, YS09, Yu05b]. **Boltzmann** [CGMS06, AL08, ABZ⁺08, BKS07, BYS08, BTC05, BLM08, BdLL01, CGMS03, CA06, CDL04, Del03b, DCK08, Dys01, FM04, FR03, FSM⁺01, FH07, GS06a, GS03b, Gua00, Hag07, HDC02, HHL00, HKG08, HNGB04, HHC08, HH07c, ISNY05, IYT⁺02, IOTK04, IF09, JP00, JKL05, KY08, KPB08, Kwo08, LL03a, LLP07, LL01a, LL03b, LL05, LLC06, LLQ⁺02, MP01a, MP02, MRS09, MEG02, MSYL00, MHS02, Mie00, MR07c, MAL09, NCS03, PR00, PL09b, PSCQ03, PSC04, PSC⁺06, PA07b, PPB09, RMSB09, SCT09, SB09, SPT05, SY08, SLC07, SS03b, SS05c, Sof09, Sun00, TBJ⁺09, VLB09, WWC07, WS09, XH03, YZ07, YGL05, YF09, ZK05, ZSC07, ZXQX08, ZSC06, ZTPM05, vdSE00]. **Boltzmann-like** [MEG02]. **Born** [CXB08]. **Bose** [BT03, BJM03, BW06, BCL06, BS08a, CKLS05, CLS05, VCTS02]. **Bose-Condensate** [VCTS02]. **Boson** [BTFY01]. **Boson-Fermion** [BTFY01]. **both** [SHP07]. **bottom** [BTT08, FG07, VTT08]. **Bound** [Mai01, CKLS05, GG09b, KSW03, Mai03, Mai04]. **Bound-State** [Mai01, Mai03, Mai04]. **Boundaries** [CPP02, HLKS00, UMRK01, BTC05, BF08, BJ09, CBI⁺04, GS07, GSB03, KAK03, LL03a, LKP06, MTH08, Mil08, MDB⁺08, PC08, SS07c, TLK09, Vik03, WS04, XW06, YB06]. **Boundary** [AC00, ACY00, AD03, AGH02, Bra08, CM00, Cor00, DMG00, DC01, DKSW01, DKX00, DKX01, Eli02, FVOMY00, FT01, FSY00, GZ01, GM01a, GHG01, Giv01, GVT01, Gro00, HLS01, HCG01, JSCZ08, JC06a, JL02, KG09, KAIN01, KKC01, LP00, LOK01, LFK00, MCJ01, MSYL00, NFK01, NMS07, Nys02, OKL01, OB02, PPC00, Pet01, RC00, RTT01, SFY01, SW00, SS05c,

TC09a, TS08, Vay00, VR02, WHV⁺00, YFS01, ZWL02, ZJWC08, ZP02, ZRR00, ABL05, AST07, AMR06, AWK07, AB03, ABK09, Ata04, AG08, AKP07, AMS03, BYS08, BBD04, Bér07, BL08, BBMB07, BM05, BA03, Bet08, BGS08, BO04, BT09, BP08, CD03, Car09, CGMS06, CFR09, CP04b, COER07, CGKM06, DH09, DS05b, DT03, Dim07, DND06, DCK08, EZ08b, Eg07, Eli07, ES03a, FEL⁺05]. **boundary** [FM04, FE04, FF03, FGP08, GGS09, GMD07, GS05c, GN03, GP04, Gla05, GPVB07, GP05, GHMP07, GKV09, GK04, GK07, GE07, GT09c, Gui03, HS09a, HK04a, HD07, HAS05, Hel09b, HK08b, HZ07b, HS08b, HS08c, Hu05, HLL08, HSS07, HSC09, HST09, HF08b, IKL⁺08, IK07, IG05, IDD04, JA08, JM05, KIH09, KIH09, KY08, Kau03, Kel05, KJ09b, KC06, Kim07, KL04, KB06, LTH08, Lau04, LWP⁺09, Lee03, LHZW05, Li08b, LN09, LP06b, LY06, Liu09b, LDV08, LZC04, LMZ⁺08, LCCG05, Mai04, MKLU05, MvW08, MR05, MS04, MTH08, MJ07, Mil08, MDB⁺08, NA08, NFGK07, ND04, NN04, Nic09, NCW⁺09, NK08, NB04, OPML07, PSC⁺06, PH08, PS08, PK05, PWM06, Pon09, PSM08, Pro05, Pro07, RMGK04, SSN09, SS03a, SAK05, SBCL06, SW04a, SLC07, SSND03, SJHM09, SM06b, Sof09]. **boundary** [zSW06, zS06, SK03, SN06, SCN07, SN08, TC07a, Ten03, TE08, TF03, Tsy03, Uhl05, VB09, VVS08, VGZB09, VRM07, VHI05, VP09b, VZSL07, WT07a, WK04, WL06, WFC09, WS09, XJ07, XHW07, XD07, YB06, YP06, YZLH09, YBZ06, YH07a, YZW07, YW07, YLA08, YE07, ZKDT07, ZZ07, Zhe06, ZT03, ZW06, ZZFW06, dA04, dTDI⁺07]. **Boundary-Adjusting** [KG09]. **Boundary-Conforming** [VR02]. **boundary-fitted** [PS08, SS03a, YP06, ZKDT07]. **Boundary-integral** [AD03, JA08]. **boundary-lattice** [FM04, PSC⁺06, WS09]. **boundary-lattice-Boltzmann** [DCK08]. **boundary-layer** [ZT03]. **boundary-layer-resolving** [NK08]. **boundary-value** [ABLS05, Eg07, PSM08]. **boundary/level** [YS09]. **Bounded** [Coe02, FG02, Sum00, CLB08, CP04c, FNS07, FPK08, FGP08, HPD09, IDD04, MC06a, PPD08, SFMP06, WD07]. **bounded-obstacle** [FNS07]. **boundedness** [HR07, RH05]. **bounding** [PG04]. **Bounds** [MPP01]. **Boussinesq** [ES06]. **Box** [PS07a, FD09a]. **BPM** [FCJ08a]. **Branch** [Gos02]. **Branching** [KM02, LM08b]. **Brazovskii** [ZZ08]. **breakdown** [WH05]. **Breaking** [DF00a, SSSWD00, KDOO05, LTD07]. **Breakup** [CBL01, QLS09]. **brick** [DR06]. **brick-tetrahedron** [DR06]. **Bridges** [LS02b]. **bridging** [PKKL05, WL03]. **briefly** [BBF⁺08]. **Brinkman** [LV07]. **Brownian** [DHM03, SP04]. **Bryan** [MR01]. **BSOR** [CKLS05]. **Bubble** [Han01, YSC01, BPMR08, HY09, HY11, HL07c, LF04, MGCR07, NJLA06, YFBH07, ZEA06]. **bubble-stabilized** [HY09, HY11]. **Bubbles** [Dar00a, ZYKW01, BOK⁺06, HSL08, Sus03, WK04]. **bubbling** [CGL08]. **Bubbly** [KS02b, MTV08]. **buckling** [LS08]. **Buffered** [SSC00]. **buffers** [SKR06]. **Building** [SSW⁺07]. **Bulk** [GHG01, AKH06, MLM09, VTW⁺07]. **Buoyancy** [SZ01, KIH09]. **buoyancy-dominated** [KIH09]. **Buoyant** [PG02a, SWG08]. **Burgers'** [BFG07, PIN09, DP00]. **Burn** [BSJ01]. **Burnett** [LR03, OX04].

C [Thu08a, TRSK09, WdND06]. **C-grid** [Thu08a]. **C-grids** [TRSK09, WdND06]. **CAA** [DTMS06, RBSL06]. **CABARET** [KG09]. **cables** [GPL05]. **Cage** [vHBB02]. **Cahn** [CR07, CFP08, pHL09, KW06, KKL04, WKG06, WKL07, XXS07]. **Calcium** [SSC00]. **Calculating** [BS00e, DST07a, MBM01, MN02, PSZ09, TRL01, LWW04, MS04, RMB07]. **Calculation** [CTS07, CSV00, Deh02, Fed02, HO03, RS02, YSO07, BCDW06, BST03, BS09b, CSMH05, ELD08b, Fou06, HBHS09, KKD08, LZ07, LLC06, LP06a, NG06a, OLLL03, SCT06, SAM05, SMAj08, VTW⁺07, ZSTC06]. **Calculations** [AC01, CY00, CWWZ00, DGP00, FJ09, HSK00, HJ02, KHV01, Lou00, Mit00, TR02a, UH01, YMF01, AST09, AT05b, BCHL07, CL06a, DT04, DL03a, DBB06, FHW07, Hof04, HRV08, KKCF09, Küm04b, LCG07, LC03, LCM07, LLRP09, PSH⁺08, SF03, SHP07, SP05c, Tol07, Tol08, VTM⁺08, YMW06]. **Calculus** [BS01, OVG07, PS07a, PS07b, PCS⁺09]. **calculus-finite** [OVG07]. **Calibrated** [CBS05]. **calibration** [BV05]. **call** [Ano05s]. **Camassa** [COR08]. **Cancellation** [Lee07b, Lee09]. **Canonical** [LOK01]. **canopy** [Dic08]. **capacitance** [MS04]. **capillarity** [TW07]. **capillarity-dominant** [TW07]. **Capillary** [Mad05, NS04, PS05]. **capsule** [LS08]. **capsules** [SCRL08]. **capture** [AZ05]. **Captured** [YC02]. **Capturing** [AS02, BJ02, BS00c, EFFM02, LFK00, MC02, NFK01, RMO00, SM05, STiST02, TNGH02, Tót00, BAR08, BdCB09, BW07, CB09, DLD⁺06, Edw06, FSS03, HJJ09, KL08, KH08, km07a, Pir06, SYC09, SAM05, TDWY08, TY07, UTBV03, Vol04b, Wen06, XD07, YJL⁺06, dSMN⁺04]. **Carbuncle** [PD01, DMG04, NK08]. **carbuncle-free** [NK08]. **Cardiac** [Ota00]. **Carlo** [ABRR09b, LM03a, MCP03, ABRR09a, AMH04, BBHM09, BS07, BMDS05, BSP06, BUEG06, BB09b, CLL07a, CGMS03, CGMS06, CTW⁺08, CV06, CF06b, CS03, CS04, Dem04, DL03a, DL04, DUEB07, DDDC07, EULM03, ED07, FG04, FG05, FT09, Gen01, GL09a, GMH06, HH07c, HGM01, IH04, KB00, KMV03, KAS08, KLW09, LSL08, LM08b, LM01, LD09b, MMKP08, MU09, MBS03, NU09, OK07b, Pal08, Pet07, PK00, PVR07, PVPS09, QL01, RRV01, RS06b, SSE03, Sch08, SL04, She08, SA06, SMSS07, UH01, VK04, VK05b, Vol04a, WBM09, WGS⁺08, WMH07, ZSB⁺08]. **carrying** [CDV05]. **Cartesian** [AMSZ07, CL00a, Cal02, CRB00, CBGI09, Che04, CMG09, CYS06, CGKM06, DDH01, GSB03, GS05c, HLS02a, JMK01, KKCF09, KAK03, KL04, LPK05, LJK09, LKMU05, LLB05, LBL06a, MKLU05, MCJ01, MG07d, NA08, OK06a, OSK09, RCB05, RW03, SROCdPFF05, SBCL06, SH07b, SS07b, SPGR06, TU04, UMRK01, VS07, XLM07, XLP05, YU05a, YXLF05, ZT07b, dHRvdB07, vdHK07]. **Cartesian/immersed** [GS05c]. **cascades** [Ram06]. **Case** [FP02, HH01, PWW00, Spo00, BMN05, CD03, CC07, CY05, DBF08, Dur08, GA09, KTD03, LRS07, QS04, QLK07, SD06, VVM05, VP09b, ZQ09]. **Cases** [LMS02, FGS09, GR08]. **CASL** [MPD03]. **casting** [GS03b]. **castings** [BEA09]. **category** [Cap05, Cap06]. **cathode** [SXYWX09]. **Cauchy**

[CFS09, SY09b]. **Caustics** [BS00c]. **Cavitating**
 [SS02, LKX04, SPB09, SMS08]. **cavitation** [SG03a]. **cavitations**
 [Hua07, WWC07]. **Cavities** [CL00b, AKL⁺08, LKD04, SS07a]. **Cavity**
 [AQV02, APQ02, AK05, DR09a, GGP06, Men04, PSC04, Woo06]. **CBFEM**
 [OMK09]. **CCD** [SVB09]. **Cell** [Azm02, Bow01, CP04c, CB02, JC02, JM00,
 Lap02, LDL⁺09, MD02, MC00a, Par02, PH09, QRHD00, SMP01, Sni01,
 SPC01, VC00, BAMD07, BMT09, BF08, BM07, CDDL09, CKPW07, CP07,
 CWD08, CCF⁺05, FHD⁺09, FD07, FG06, GS09b, GF05b, HDR⁺06, IITV07,
 JH06, JD09, KW08b, LWDA09, LLL07, LL06b, Mai09b, Mai09a, MN09a,
 MCG08, MSB07b, NGC⁺07, OK06b, PPCW06, QFR04, RB05, RB09b,
 SS09b, SK07b, SXyWX09, TF03, WPCR07, YE07, ZSW07]. **Cell-** [SMP01].
Cell-Centered [MC00a, BMT09, BM07, CDDL09, CCF⁺05, GF05b, Mai09b,
 Mai09a, MN09a, MCG08]. **Cell-Centred** [JM00]. **cells**
 [CDDH07, DPRN06, LTD07, Li08a, Liu05, MV06, RCB05, XLS09a]. **Cellular**
 [LGN05, Nov04]. **Center** [Saf00, Saf02, HP04b]. **center-difference-WENO**
 [HP04b]. **Centered** [MC00a, SMP01, BMT09, BM07, CDDL09, CCF⁺05,
 GF05b, Mai09b, Mai09a, MN09a, MCG08, MCGV04, PYC04]. **Central**
 [AT05a, DPRS01, KT00a, KT00b, Liu05, QS02, TA06, BTW04, BS08a, BL03,
 CVB06, Cap08a, CP08, CZVS04, GS03c, JR09, KK05b, KPK09, LSB04,
 Li08a, MGS07, SGD03, Zie04]. **central-constrained** [Zie04].
central-upwind [BL03]. **centre** [Mot08]. **Centred** [JM00]. **centres**
 [SPLM09]. **cerebral** [YXLF05]. **Cerenkov** [GCLB04]. **CFD**
 [AFGM07, DTMS06, KP08, LXM09, ZWL02]. **CFD-based** [KP08].
CFD/CAA [DTMS06]. **CG** [YAvdB⁺08]. **chain** [GL09a]. **chains** [CVE06].
Change [Del03a]. **Change**
 [JLCD01, MR00, WW00, WHV⁺00, YSC01, BFC04b, EKP07, GCNB07].
channel [BF07, CZVS04, DS06b, HO03, PPD08, SS05c, TS08, VTT08].
channels [CGRGV⁺04, NFvS⁺06, SFX03, TCM05]. **Chaos**
 [AKY01, DGF09, LX09, MN09b, PW07, RM07, WK05, XK03, HLRZ06].
Chaotic [Lin02, YZL⁺06]. **Characteristic**
 [DCV⁺01, LL01a, OB02, OMK09, QS02, IX07, PL04, RLZ03, Ser09, TY07].
characteristic-based [Ser09, TY07]. **characteristic-wise** [RLZ03].
Characteristics [ZTZ02, HMM08, Lee03, Lee05, Neo07, NDT06, SD05a,
 SD05b, SZH07, TOY09, ZR08]. **Characteristics-Based**
 [ZTZ02, Neo07, NDT06, SD05a, SD05b, SZH07]. **Characterization**
 [GD06a, FH03]. **characterized** [RC06]. **Charge**
 [CPP02, OMG02, SUW01, Ver01, ASQR06, CK07, LSA06, WR09, XDC09].
Charge-Conserving [OMG02]. **charges** [CDJ07, DC07]. **Chebyshev**
 [BK08, BDCG03, BRB03, Boy04, Boy05a, GH03, JW09, Lab09, LBS⁺04,
 Sar03, VB08, ZP06, ZSTC06]. **Chebyshev-filtered** [ZSTC06].
Chebyshev/rational [Boy05a]. **Chemical** [JWSC00, JW02, LX00, MEG02,
 San01, SD00, ACGV07, AMH04, CP06b, CP06c, ELVE07, HL07a, JW03,
 LGP09, Liu08, MK07, OLA08, RE07, RHPN09, SZ08]. **Chemically**
 [BM01b, Li01, CGP05, CP06a, CFL⁺03, NS05]. **chemistry**

[AMH04, GMAj09, LLRP09, MESV09]. **chemotactic** [BCGR05, SL07c].
Chen [WS04]. **chimney** [KW08b]. **Choice** [TDV06]. **choosing**
 [AMXL09, FP08b]. **CIP** [IX07, TOY09, YMT⁺04]. **CIP/multi** [IX07].
CIP/multi-moment [IX07]. **Circular**
 [HGM⁺00, PG02a, ACR08, GGP06, KR09a, NCS03, SLC07, SSND03].
Circulation [DOWB01, Hig02, MR01, Hig05, SP06a, TVMR03, WDO⁺03].
Class [GSD01, HR01, LP01, BAMD07, BG05b, DGH08, GS03d, pHL09,
 KPP07, LRZ04, MY09, RP08a, Ros08, Tsu06, XS06, ZSWW03, ZWS06].
Classical
 [BS00d, HGM01, BCCV09, CWL08, JR03, JR04, LQ09, LTD⁺06, QCGQ03].
Cleaning [DKK⁺02]. **Clear** [Bal02]. **climate**
 [Dic08, Lap08, Lyn08, MS08b, SW08c, Thu08b, dNWvSD07, dTWD09].
climate-prediction [SW08c]. **cloaking** [ZH09]. **clocked** [Mil05]. **Close**
 [POS00, CLL07a, HO08b, ZD05]. **Closed** [RK07]. **Closure**
 [DK02b, HHC08, PM07, RW08, SKWN03]. **Cloud** [MD02, SMT⁺08].
Cloud-in-Cell [MD02]. **Clouds** [VCTS02]. **cluster** [CD04, FT09, Nit05].
Clustering [Gut00, MK02a, MG05a]. **Clusterization** [PA00]. **Clusters**
 [DPRS01, KKD08, Pal08]. **Cnoidal** [Boy02b]. **co** [BBF⁺08].
co-propagating [BBF⁺08]. **coagulation** [VK04]. **Coalescence**
 [CBL01, BJP04, FLM08, LMV04]. **coalescing** [ADS03]. **Coarse**
 [DEHL06, KMV03, RMGK04, IM07, KEB⁺07, THL06]. **Coarse-gradient**
 [DEHL06]. **Coarse-grained** [KMV03, IM07]. **Coarsening** [Cho00]. **Coastal**
 [SR00b]. **COBRA** [SHWW00]. **cochlea** [GB03]. **COCR** [JHZ⁺09]. **Code**
 [ALGM01, BM02, BADG00, CBB01, HF01, QRHD00, SHWW00, BM06,
 BvdHKG07, CN08, FM06, GHB03, GLN06, GBB⁺06, HF08a, HDR⁺06,
 IITV07, KB04, LGKP07, LL08b, NC04, OPML07, Roy05, SO08, SJHM09,
 TVMR03, TT06c, TPR05, WGC07, ZK06]. **Codes**
 [PFB01, SMP01, Tót00, ADS03, FG06, HM09, PH09, PL04, TS07, dSHHM05].
codimension [CFF07, Min03, Min04]. **codimension-2** [CFF07]. **coefficient**
 [Ber04, BK08, HL05, JBHK08, JZ08, LT05, MGC06, UL06]. **Coefficients**
 [PL01, VSMW01, Boy09, CT04, DGH08, HH07a, HyLL07, MD06, OK06a,
 SRNV07, TBT⁺09, ZZFW06]. **Coherence** [BTSM09]. **coherent** [WR09].
Cold [VCTS02]. **Cold-Atom** [VCTS02]. **collapse** [BCGR05, Sus03, TU04].
Collection [TRL01, KfV07, WXG07]. **colliders** [QFR04]. **Colliding**
 [MKM99, CC08b, MKM04]. **Collision** [ADR08, Mu02, PRT00, SR00a,
 DWC⁺09, DTS05a, DTS05b, KDK⁺07, Lar03, LWDA09]. **collision-driven**
 [DTS05a, DTS05b]. **Collisional** [BZB00, KK00b, CF04, FPT05, GT09a].
collisionless [LCB04, VTC⁺07]. **Collisions** [SSW01, AGW07, BBDE05,
 HS04, SK08a, She08, SMSS07, WLC⁺08, XCRX08]. **Collocated**
 [LP02, CEH09, FL06, IA06b, MZ07, NMM⁺07, NMH⁺07, Ni09, SMS04].
Collocation [CSS00, KK00b, Lay02, PB00, Rei00, VB00, YKG04, AA09,
 Bia03, BK08, FWK08, FH03, GZ07a, GZ07b, GH03, Hei04, HK08a, KH09,
 KT03, LCCG05, MZ09, MK08b, ND04, VK05a, WG09, ZG08]. **Colloidal**
 [HHL00]. **colocated** [HM05]. **Column** [SUW01]. **Combination** [GG00].

combinatorics [RK07]. **Combined** [AA02, FVOMY00, SZ01, Car09, NI03, SLV09, TZ06, VS09, WZ09].
Combining [CWD08, FHJK09, SMP01]. **Combustion** [FH00b, GMB01, BEG03, LG03a, LP06a, LLRP09, MMPB07, YT07, vdBG09].
Comment [Aza09, CKR01, MCP03, TR07, Xu01b, LM03a]. **commentary** [SM09b]. **Comments** [PX02]. **common** [EF03]. **Communications** [KP05].
Commutative [HV03, MVM02, CBJdlC07]. **Comp** [DD03a, LM03a, MKM04, SM09b]. **Compact** [AC00, ACY00, Bla00, CT09, Cui09, DZ00, HT00a, HT00b, Hix00, KMJ01, Lai02, LS02c, LC01, MF00, NWZL08, PKP01, PS08, Pir02, PM00, Tol02a, Tol02b, TS02, Zha02, AV05, AZ03, BACFT05, Boe05, Cap08c, Cap09, CHB09, CL08c, CS09, DE06, DS06b, GG09b, IQ08, JAK05, Jor07, Kim07, LSB04, LL09, NLF03, NI03, NF09, NS05, PKD07, PYC04, PS04, PSG05, RLZ03, SGD03, SJD05, SDR07, SLV09, SYG06, SS05a, SZ05, STZ07, TD07, Tol08, WZ09, WF06, ZJS08, ZYHS07, KG09]. **Compact-Difference** [MF00].
Compact-WENO [Pir02, CHB09, RLZ03]. **compactons** [RV07, RV09].
Comparative [KKS07, GLLX08, MC06b, SB06c, TPVG06]. **Comparing** [WLC⁺08, ZRS06]. **Comparison** [AV02, Bar02b, Boy02a, BUEG06, CMOV02, Fas03, GH03, GHV00, GC02b, HDC02, KMSH08, KN04, Mac00, MRS09, MBS03, QS02, SS01a, WPM⁺02b, YFS01, Yua02, ZDNP00, ABRR09a, ABRR09b, BRB03, CGMS06, Eg07, EHS⁺08, GR04, HS04, IITV07, KSW07, LTD⁺06, Low04, NDG05, SSW⁺07, ZKDT07].
Comparisons [LMX⁺08, MP01b, CGMS03, GMS06, PR04a]. **compatibility** [RVDm09]. **compatibility-constraint** [RVDm09]. **Compatible** [CRB00, BBC⁺06, BAFL09, LC06b, RK07]. **Compensated** [PSM08].
compensation [DL03b]. **Complement** [ACS00, ACLS03]. **Complete** [CL08a]. **Completely** [XY01]. **Complex** [DDH01, FVOMY00, KKC01, MF01, RRV01, UMRK01, AB05a, AMP09, BYZ04, BGS08, BGN03, BHP07, CHM08, CB03, COER07, FLE03, GS07, GSB03, GS05c, GN07, Had05, HM08, HHMK05, JL09, JHZ⁺09, LZL03, LG04, LZ09c, LV07, MCM04, MCGV04, MDB⁺08, MMPB07, MK06, Pop03, RJ06, RE05, SY03, SC08b, TAL09, TF03, VSV03, XLM07, YXLF05, ZJWC08, dSMF09]. **complex-step** [CB03].
Complex-Valued [MF01]. **Complexity** [Pau07, PWW00]. **compliant** [LTWW07]. **complicated** [SZS03]. **Component** [YL01, CKLS05, CLS05, JVV07, Maz06, MLS⁺05, MGNB09, SS04, TZ07a].
Component-Wise [YL01]. **Composite** [BM01a, Dri02, GA09, GL06, HC09, Jor07, ZC09]. **composites** [WP09].
composition [CP03a]. **compound** [Hau08a, Hau08b]. **Comprehensive** [VHI05, GB03]. **compressed** [HO08a]. **Compressibility** [HDC02, VLKM02, BCDR06, Ber06a, KKS05, SD05a, SD05b]. **Compressible** [AK01, ACK02, BCVK02, CFA01, CR02, DLS⁺00, GS02, Han01, HH02a, LC01, PR00, Ros00, SLY02, SBGK00, Shy01, SFMP06, Sun00, SPW⁺00, TSB01, WLE⁺00, WZ00, Xu02a, vdVvdV02, AS03a, BSKH07, BKST09, BALW06, BLM08, BL09c, Boe05, BB08b, CPR05, CL07a, CL08b, CHB09,

CJ09, CS07a, CZ09, DT04, DP07, DP08, DF04, DND06, ECL02, FK07a, FOLD05, FD07, GXW07, GFS08, GMD07, GR04, HJ09, HH08, HM04, HM05, HK04b, HKAH06, HAI09, IAT08, JC06b, KG08, KK05c, KK05d, KK05b, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, Kok09, KSGF09, Lar09, LMX⁺08, LFS07, LFX05, LS07, LLS09, LJW09, LDPL08, LKW05, LV07, LP07b, LCS09, LDV08, LSW06, LB03b, LJ06, LBL06a, LBL08, LZH⁺06, Mai09b, Mai09a, MM03, MTWW06, MC06a, MB04, MSS08, MLS⁺05, MBP07, MG05b, NOG08b, NGvdWS09, NDT06, NT07]. **compressible** [OF06, OPML07, PDHP07, PS05, PvdV08, PFSL07, PWM06, QA09, QLK07, Ros03, Ros07, SRM09, SFDL07, SPB09, SWK06, SM06a, SMB09, Shy06, SY03, SC09b, SK03, SCN07, SN08, TWM07, TT09, TMD⁺08, TW05, TT06c, TR07, WAO⁺04, WTL08, WM09, Xia04, XAI06, XLP05, ZGG03, ZSC08, dTDI⁺07]. **Compression** [HHCL01, dCNHSD07]. **Compressive** [CLLG09]. **Compton** [DWLM09]. **Compton-scattering** [DWLM09]. **Comput** [ABRR09b, CL08b, HMS08b, HY11, HLWW06, JJGL07, Lau06, MN17, Mil07, SCC⁺03a, WZL09b, dTWD09]. **Computation** [AIRY01, BCB03, Bae03, CS00, CGSS00, DDG02, DD05, DP00, EKK02, GG00, GM01b, GKL00, GM01c, JTB02, Khe04, LRS07, MS01, NR01, PK07, PSN00, RS06b, Shi07, SFW00, hRT02, VLKM02, Wee02, WZ00, BBK07, BJP04, CSWJ07, CFM09, DBB06, FRS08, GT09b, GXW07, GMO04, GMS06, HS08a, Heu03, HLY09, JD09, JX07, Kar04, LCB09, LBL04, MC04, MGCR07, MT08, NL08, OB06, OJW06, PLS⁺09, RJ06, RC06, Ros03, Ros07, SP05a, SKXK05, TZL05, TJ09, Tuc03, UTBV03, VCT09, WLT08, YC06a, ZSW03, ZW05, ZIP06, dSMF09]. **Computational** [BMRS02, BCE⁺09, BPS03, Bor03, CL01b, Dar00a, HMK02, JY08, KM02, KMH00, Myo01, OP02, Sau04, SHA08, SSD00, SZS01, Abr06, AK09, AHNS09, Bod06, CFR04, Cap05, Cap06, CKPW07, Dem04, FVE04, GWF⁺07, GE07, Kim07, LB03a, MRS09, MJ06, Meh04, MGS07, MT07b, Myo04, PBH04, Roy05, WZL09a, WZL09b, YZL⁺06]. **Computationally** [EHD08, LLRP09]. **Computations** [AK01, CAL00, DIV00, ES03a, Fre00, Gos02, HHCL01, JK00, KKR01a, KKR01b, KLvBvL02, SS02, TBE⁺01, BB04b, BdCB09, BLM04, BCGR05, CWL08, DH07, EG08, GS03a, GKE04, HP04a, KM03, KLK08, LJW07, MKLU05, MK06, NA08, NJX09, RMV03, SMS04, TZ03, Tan08, VOD08, XLM07, XP04b, XHC08, YP06, Yan09]. **compute** [CXB08, CB07, VBL04]. **computed** [MLSD07]. **Computer** [Ota00, VP00, FSS03, GHB03, KKD08, LL06b, Lyn08, MC09]. **Computer-Aided** [VP00]. **Computers** [AKY01]. **Computing** [BNNP06, BLW01, BBK06, CF06a, CGL06, CCJ07, CEL06, DK06, DK02a, FCT07, Fre00, GST00, Han00, HL07b, JLOT05b, JLOT05a, KG03, LM08b, LAKD08, dIFMBdIFM02, Ovt08, PS01, RS00, SP07, SP00, TMND07, Wu02, BW06, BCL06, BS08a, Boy03, CORT09, Cec05, CL07a, CL08b, Chu09, CJR04, Jao07, LLS09, LW07, LW09, MR06b, SDR07, SH07b, SFVK06, Sus03, Vos06, Wen06, XMP07]. **concentrated** [DMHP07]. **concentration** [Bil05]. **concentrations** [Wen06]. **concept** [HF08b]. **Concise** [VQSZ02].

Condensate [VCTS02, BT03, CKLS05, CLS05, Yam05]. **condensates** [BW06, BCL06, BS08a]. **condensation** [BJM03]. **Condensed** [BS07].

Condition [AGP01, LFK00, NFK01, Vay00, WHV⁺00, APQ03, BYS08, Car09, DS05b, FGP08, GV08, GP04, GK07, HAS05, Hu05, KDOO05, KL04, Li08b, LD04, Ten03, XD07]. **Conditional** [LLY05, MT04]. **conditioned** [ILL09]. **Conditions** [AC00, ACY00, AGH02, DMG00, DKS01, Eli02, FT01, FSY00, Giv01, GVT01, Gro00, JL02, LOK01, MPC01, MPC02, OB02, Pet01, RC00, RTT01, SFY01, VDM⁺02, YFS01, AST07, AMR06, AB03, ABK09, Ata04, AG08, BNV08, BBD04, Bér07, BA03, Bra08, CGMS06, CBI⁺04, DH09, EZ08b, Eli07, FE04, GK04, GE07, GT09c, HMOG08, HK04a, HZ08, HEN09, Hel09b, HLL08, HSC09, HF08b, IK07, JM05, Kel05, KB06, LW04, Li08b, LP06b, Liu09b, LDV08, LZC04, LCCG05, Mai04, MTH08, MJ07, ND04, NN04, NMS07, NB04, OPML07, PH08, PK05, PWM06, Pro05, Pro07, SSN09, SS05c, Sof09, zSW06, zS06, SK03, SCN07, SN08, THL06, Tan08, Tem06, TE08, TS08, Tsy03, XHW07, YE07, Zhe06, dA04].

Conducting [CPK02, Kan02, DND06, PL09a, RVVL09]. **conduction** [AMXL09, DQ04, FHLO08, GIA⁺07, GIA⁺08, GL06, JG09, MR07c, Mou04, Ols07]. **conductivities** [YWC07]. **Cone** [SS01b]. **Confined** [OL01, BWLM09, Chr03, PC08, VB08b]. **Confinement** [SUW01, Gos04, SKK⁺08]. **Conformal** [ZSW07, CSML06, Hum05, LMS04, NCW⁺09, OK07b, VZSL07].

Conforming [VR02, CCV03, CEH09, KT06, SB06c]. **congruent** [AD04].

Conjugate [PKvdB00, AMLC08, Fen06, HC09, Ovt08, Yan09, YLD09, ZW03].

Conjunction [TK00]. **Connected** [BMQS02, HJ02, VRM07]. **Connecting** [SZ00]. **Connection** [Lio00, Xu01c, VLW07]. **Connectivity** [SJ02, TB00b, SS09b]. **Conservation** [Asl01, BJ00, Bar02a, BIS07, CWT00, CDKP00, CRD02, FGG01, FMO00, GC01, Han01, JTB02, KH09, KT00a, LL00, Noe00, Per00, Sti02, TS01, Vas00, VS02, Wan02, WL02, YL01, ZSP02, ZYC02, AKLMP09, BAFL09, BT05, BBCT09, BCCD08, BP03, CLG07, Cap08a, Cap08b, CP08, CGKM06, CD07, CkM07, De 04, Edw06, ÉGP09, FS09, FL06, GV07, Gui05, HLMM07, HM04, Hub07, HO03, JR09, JTL09, KI05, LL03c, LVW06b, kM07a, MY06b, ML08, MESV09, Mil04, PDL09, RLZ03, RCD05, SW04b, SYG06, SAM05, SWL06, SZLW06, SR09b, Tak06, Thu08b, TT04, TT05b, TT06a, TT06b, THS07, WZL04, WG09, XS05a, YZF07, ZYL⁺06, vDZ06]. **Conservative** [Abg01, AKO09, CBKM00a, CBKM00b, CL01a, CFJ06, CRD02, DLS⁺00, FSB01, FK02, HLS02b, HEML00, IAT08, JJGL06, JJGL07, Jan00, KKL04, LM04, MF01, MC02, MGNB09, NTYT01, NTYT02, Nic00, OF02, Pir02, THD09, Tót02, VK05b, XY01, AK06a, CS07a, CS06, CS07d, DP07, DP08, DMP08, DBBP08, EB06, FS09, HHMK05, HKAH06, IITV07, IKS⁺09, KD09, KPK09, LCS09, MS03, MM03, MC07c, MVO04, NMM⁺07, NMH⁺07, NGvdWS09, OK05, OKZ07, OK06c, RVD09, RAD07, RSTB03, SZC09, SYC09, SS07b, SA09, SPGR06, TL06, TOY09, WAO⁺04, XP04a, ZGK09,

ZWS07, vBK03]. **conserve** [IG05, SHP07]. **conserved** [XMP07].
Conserving [BS00d, KKGL01, OMG02, BYS08, DOW08, DBS06, JL04a, KJ09b, MY09, VU04]. **Consistency** [MPC01, MPC02, BBC⁺06, Dom08, LSW08, ZH04]. **Consistent** [BKR⁺01, LOK01, MJ07, Ni09, OB02, SUW01, TE08, WHV⁺00, XLM07, AJ09, AL08, BEA09, CLMRP08, DST07b, Gra06a, GS03d, IK07, IR09, LG03b, OL01, Pon07a, RHPN09, SCC⁺03a, SCC⁺03b, SC09b, WAO⁺04, ZSTC06].
Consisting [CFA01]. **consolidation** [BFG08]. **Constant** [HS04, BMDS05, ET06, HA09, SD05a, TLL⁺08, ZZ09]. **constant-density** [HA09]. **constant-volume** [ZZ09]. **constants** [Hei05, LTL⁺09].
Constitutive [CT07, CPG04, TdAAP08]. **Constrained** [CBMO02, HMS08b, KM02, PGB05, YXU01, Abr06, Abr07, Abr09, AT05a, BTWGVBW07, COV04, GS05b, GS08, HMS08a, HS09b, IX09, KSS09, LPK05, Li08a, LD04, PM08, TFD06, TA06, UYK⁺04, YMW06, Zie04].
Constraint [BFG08, T6t00, Yon01, Abr09, BLS08, RVD09]. **Constraints** [LCS02, OS01, Kau03, MS08a, MC07a]. **Construct** [STiST02].
Constructing [LJS08, Aza07, Aza09, Che07, YC09a]. **Construction** [AM03, AM04, BBD04, FDD09a, GC01, MVM02, MY06b, Ohw02, QS02, VSMW01, CK08, DBTM08, GLM07, GD06a, MGS09, VGCN05]. **Contact** [DK02a, KJ01, PM02, RRL01, AZB09, Khe04, Spe05, VP09b, WAO⁺04, ZGG03, ZGK09, vLAvdV06]. **Contacting** [VQLZ04]. **container** [SJ04].
containerless [AD03]. **containers** [FBHV05]. **Containing** [CL00b, FMO00, CGDT09, DP07]. **Contents** [Ano07d, Ano07e, Ano07a, Ano07b, Ano07c, Ano07u, Ano07v, Ano07w, Ano07x, Ano07y, Ano07-27, Ano07-28, Ano07-29, Ano07-30, Ano07-31, Ano08u, Ano08v, Ano08w, Ano08x, Ano08y, Ano08z, Ano08-27, Ano08-28, Ano08-29, Ano08-30, Ano08-31, Ano08-32, Ano08-33, Ano08-34, Ano08-35, Ano08-36, Ano08-37, Ano08-38, Ano08-39, Ano08-40, Ano08-41, Ano08-42, Ano08-43, Ano08-44, Ano08-45, Ano08-46, Ano08-47, Ano08-48, Ano08-49, Ano09y, Ano09z, Ano09-27, Ano09-28, Ano09-29, Ano09-30, Ano09-31, Ano09-32, Ano09-33, Ano09-34, Ano09-35, Ano09-36, Ano09-37, Ano09-38, Ano09-39, Ano09-40, Ano09-41, Ano09-42, Ano09-43, Ano09-44, Ano09-45, Ano09-46, Ano09-47, Ano09-48, Ano09-49, Ano09-50, Ano09-51, Ano09-52, Ano09-53, Ano09-54, Ano09-55, Ano09-56, Ano09-57, Ano09-58, Ano09-59, Ano09-60, Ano09-61, Ano09-62, Ano09-63, Ano09-64]. **contents** [Ano09-65, Ano09-66, Ano09-67, Ano09-68, Ano09-69, Ano09-70, Ano09-71, Ano09-72].
Continuation [SML02, BHL07, BHP07, CKLS05, SNGAS04, SO08].
Continued [Lin01, Ano07d, Ano07e, Ano07a, Ano07b, Ano07c, Ano07u, Ano07v, Ano07w, Ano07x, Ano07y, Ano08u, Ano08v, Ano08w, Ano08x, Ano08y, Ano08z, Ano08-27, Ano08-28, Ano08-29, Ano08-30, Ano08-31, Ano08-32, Ano08-33, Ano09y, Ano09z, Ano09-27, Ano09-28, Ano09-29, Ano09-30, Ano09-31, Ano09-32, Ano09-33, Ano09-34, Ano09-35, Ano09-36, Ano09-37, Ano09-38, Ano09-39, Ano09-40, Ano09-41, Ano09-42, Ano09-43, Ano09-44, Ano09-45, Ano09-46, Ano09-47, Ano09-48]. **continuity**

[Jar04, Tok06a]. **Continuous** [CJ07, DPCV02, HEML00, BBvdV06, CVE06, EZ08a, FCD⁺06, KEB⁺07, Kim05, Ni09, NZ07, WAH09]. **continuous-time** [CVE06]. **continuously** [MM07]. **Continuum** [AA02, BS01, EH02, BB09c, FK09a, HW08, JG09, KZ06, KAA⁺07, LSL08, LZ04, LCNR07, MMKP08, Ren07, SKS08, SWB⁺06, SSE03, SB06b, SSB07, SBC04, TKH09, WL03, WWK05, ZL09, ZRS06]. **continuum-atomistic** [LCNR07]. **continuum-field** [HW08]. **continuum-particle** [ZL09]. **continuum-transition** [LSL08]. **Continuum/DSMC** [AA02]. **continuum/particle** [SBC04]. **Contour** [CPP02, SJ02, SLF08, SAKDJ05, SD06, VCM00, XCY06]. **Contouring** [Str01a]. **contracting** [PK07]. **contraction** [APP⁺07, TCM05]. **contrast** [GL06]. **Contrasts** [VSMW01, EG08]. **contravariant** [LB04]. **contribution** [GLM07]. **contributions** [FSS03]. **Control** [AJG01, HGM⁺00, KMA⁺01, PGN08, RV00, Aza06, BC08, CC07, CY05, FLB03, GKD09, GL09a, HKM07, HZ07b, HN03, HS04, KKK08, MK04b]. **Controllability** [HMPR07, MHPR08]. **controlled** [CP04b, IG05, LG03a]. **controls** [ZJW06]. **Convection** [ART02, Alb00, CWT00, GZ01, KLN⁺01, Kul01, KT00a, MPP01, SZ01, SWL00, Str01b, TC02, vdSE00, ART04, AZ05, BKS07, CA06, CEH09, CS09, Cho05, CS07d, DGH08, DR09a, EKP06, EKP07, FBHV05, GZ07b, HK06, ID04, KKS05, KZ04, KW08b, Kuz06, LCW04, LDW07, LS05a, MZ08, MC09, NPC09a, NPC09b, PS03a, PSC04, PSMW09, TD07, Tol07, VU04, VB08b, WD07, You06, ZGT06]. **Convection-Diffusion** [CWT00, KLN⁺01, Kul01, KT00a, vdSE00, CS09, CS07d, DGH08, KZ04, LCW04, LDW07, LS05a, NPC09a, NPC09b, TD07, You06]. **Convection-Diffusion-Reaction** [SWL00]. **convection-radiation** [BKS07]. **convection-reaction** [HK06]. **Convective** [FH07, GHG01, PR01a, Ata04, Bil05, FP08b, KG08, SPLM09, Sus06]. **convective-diffusion** [SPLM09]. **convective/absolute** [Sus06]. **Convergence** [CLMRP08, CAL00, DCV⁺01, GTRB09, GTD⁺02, GMH06, GM01c, KDK⁺07, LZ07, Lee05, PS02, PFB01, Saf00, STR07b, SPW⁺00, BAR08, BB08a, BS09a, CMG09, DVHM05, GS06b, GP05, Hel09a, HT03, HJM06, JS07, KJ09a, KS08b, LY07b, Maz06, NOG08a, NvL03, ODAF07, PPB09, SBA07, SY03, zSW06, zS06, Tor03, TB04, Tow08]. **Convergent** [DDH01, deM02, Gon07, JTL09, MGC06, TCM05, VSW04, VSW06]. **converging** [Boy09]. **Converter** [KMA⁺01]. **convex** [HJJ09]. **convexity** [De 04, XP04a]. **Convolution** [RM01b, WPW02, BKM09, Boy06, GvH06, WZ07]. **Convolution-Finite** [WPW02]. **Convolution-Thresholding** [RM01b]. **COOL** [CGC⁺09]. **Coordinate** [Bon00, FK02, HK01, MC00b, Wu02, HWW07, LRS07, LB04, SS03a, WS04, ZKDT07, dHRvdB07]. **Coordinates** [BM02, CSS00, CL02, NC01, VR02, Ano08-50, BN04, CJR04, CK07, DB04, GYKL05, KRT⁺09, LGHD08, LPK05, Mea04, MVO04, Nik06, NB04, OBT06, SR09a, SM09b, SHY07, VRM07, WAH09, XLP05, Yam05, YHSX07, vdHK07].

copper [ZSB⁺08]. **Core** [TR02a, HSC09, SW08c]. **core-spreading** [HSC09].
Cores [CKS00, LLB05, Thu08b]. **Coriolis** [AKO09, HC08]. **Corner**
 [HO08a, Boy05a]. **corners** [Boy03]. **corrected**
 [BS08b, CL05, CL08d, FWW04, MB04, Str07a, dFGLS05, dFJS09].
Correcting [SHP07, SK04a]. **Correction**
 [AV03, KLN⁺01, KT02, MD02, MOS⁺00, MPC01, MPC02, SM09b, ASPB03,
 BLM03, Che03, CL07b, DL03b, FG04, HJM06, HJM07, JH08, LM04, MTV08,
 NVD05, PG04, RVM07, RVD09, SLC07, Wal03, WYS09, WS09, XYK05].
correction-based [WS09]. **correction-lattice** [SLC07]. **Corrections**
 [BC02a, THN⁺07, VGCN05, XS05c]. **corrector**
 [CPKW09, CMSZ09, LRS09, TWYC06]. **correlated** [KS08b, AGT05].
correlation [LL04a]. **correlations** [MPD08]. **correspondence** [PHKF06].
Corrigendum [LLIK01a, MKM04, MN17, SCC⁺03a, dTWD09]. **cosmic**
 [Min07]. **cosmic-ray-hydrodynamics** [Min07]. **cosmological** [RHPN09].
cosmology [WJV07]. **Cost** [LC06a, BCE⁺09, LQ06]. **Cost-effectiveness**
 [LC06a]. **Couette** [LR03]. **Coulomb**
 [AKV00, DWC⁺09, GH02, GM01b, HB05a, KK00b, Lar03, LWDA09, LJK09,
 PC02, Saf00, Saf02, She08, SS01b, WLC⁺08]. **Counting** [Bow01]. **Coupled**
 [CFM09, DE02, FLE03, GA09, KZ06, Man02, MC02, NVD07, SP00,
 VDM⁺02, AK06a, Alb08, AMS04, BKS07, BBDE05, BFG08, DSM09a, DH07,
 Doh09, Eld08a, GT09b, GGS09, GFR09, GGCC09, HBLD07, HMMR04,
 JG09, KLSW09, Mou04, NVD05, NGC⁺07, Ols07, ODC07, PR04b, PC06b,
 RBSL06, Ren07, STD⁺05, Sus03, TC09a, WLC⁺06, YJL⁺06, YLD09, YSS05].
Coupling [BQQ09, ČPT01, Dar02, Del03a, Fed02, GTD00, GB08a, GL09a,
 SSE03, UH01, WL03, WK01a, YMF01, AHMS03, AL08, BCG09, CPKW09,
 CELS07, CS07c, CC08b, DM03, DDM07, DTMS06, DST07b, ED07, IA06b,
 KYK07, LKMK09, LM03b, MMS04, MU09, NMG09, Pon06, Yam05].
couplings [VZSL07]. **Courant** [KDOO05]. **Covariance** [SL06]. **Cox**
 [MR01]. **Crack** [ÁDIM09]. **cracks** [Oh04, PL09a]. **Crank** [Han00, KW08a].
Creation [OMG02]. **Creep** [Sie00]. **creeping** [Kro01, Kro02, MR06b].
Criteria [SV00, CHM08, LG08]. **criterion** [KP08]. **criteria** [HX05].
Critical [AV02, GGL⁺01, KMJ01, Maz06, HAP05]. **Critique** [Mac00].
crossed [HDBW05]. **crosswind** [BEG03]. **Crystal**
 [JK02, LS02b, NDG05, BS05, CW08, DQA08, DBB06, GJK09, HWWL09,
 Lap03, LL06a, LLZ07, PSCQ03, Sau04, TBT⁺09]. **Crystal/Melt** [LS02b].
Crystalline [EH02, GM04, Gos04, GM06, Tan08]. **crystallization** [Lap03].
Crystals [CD00, DGP00, KM02, BS06b, Chr03, DD05, LR07, ON08, YLA08].
CSP [VGCN05]. **cubed** [CX08, Cho05, PL07]. **cubed-sphere** [CX08, PL07].
Cubic [CP04b, Lay02, BIS07, CLS09b, PSC04, Zhe06]. **Cumulative**
 [Ano00-28, Ano01-28, Ano02-28]. **cure** [LJ09b]. **Cures** [sKKRH03, PD01].
Curl [CL06a, TR02b, Wel07]. **Curl-** [CL06a]. **Curl-Preserving** [TR02b].
Current [Ver01, BCDW06, BO04, CBC09, CDV05, EPW08, FM06, LTD07,
 NMM⁺07, NMH⁺07, SK05, VTC⁺07, Wea09]. **current-carrying** [CDV05].
Currents [JTB02, GCW07, Pee03, SK08a, VBL04]. **curse** [KDOO05].

curvature [Bur05, BHSV07, ML06a, Shi07]. **curvature-dependent** [Bur05].
curvatures [RMB07]. **curve** [CFF07, SK07a, WSTW09]. **Curved**
 [MSYL00, Chr04, GH08a, JJGL06, JJGL07, JY08, KY08, KAK03, KB06,
 NGC⁺07, QP03, RBL04]. **Curves**
 [BCMO01, CBMO02, KKGL01, LZ09a, MR07b]. **Curvilinear**
 [BM02, BGS08, JMK01, MR01, NC01, SK05, SCD00, VR02, VG02, X CZ02,
 BN04, GS07, HWW07, KL08, KRT⁺09, Kok09, LB04, Nik06, VRM07, WS04,
 Yam05, vdHK07]. **cut** [FD07, LTD07, RCB05]. **cut-cell** [FD07]. **Cycle**
 [GHV00, BPM06, SJC07, XYK05]. **Cyclotron** [OL01, GLS03]. **Cylinder**
 [HGM⁺00, MK02a, BC08, BT07a, BT07b, DCK08, KR09a, MPD03, NCS03,
 SLC07, SSND03]. **Cylinders**
 [AD01, PG02a, AL06, ACR08, MAL09, TOZP03]. **Cylindrical**
 [CSS00, CL02, CPP02, FK02, GBS00, LMS02, Nit01, Sie00, BS04c, CK07,
 DB04, Mai09a, MVO04, OBT06, OPML07, RRC05, XSG08]. **Czochralski**
 [JK02, PSCQ03].

D [MKM04, CHL09, AV05, AFGM07, Alb00, ASQR06, AMXL09, ALGM01,
 AQ00, BM02, BO05, BBDE05, BM06, BCK09, BMN07, BWLM09, BRC⁺09,
 BBvdV06, Ber06b, BMQS02, BPO07, BPL06, BGS08, CD03, CJSS08, CD04,
 CWJ07, CPG04, CGMS06, CGN⁺07, CdHST08, CBKM00a, CBKM00b, CK03,
 CBB01, CTT08, CLL⁺07b, CJ07, CL00b, CP04c, Dar02, DBF08, DS06b,
 DGP00, DH07, DB04, Eld07, EHST03, EKBL09, EAY01, ES06, EKP06, GS05a,
 GS06a, GH03, GS07, GW02, GHB03, GSB03, GS05c, GBB⁺06, GKL03, Gui03,
 GLLX08, HAAO00, HWL08, HH01, Her09, Hor02, HS08c, HSL08, JBHK08,
 JHSZ07, KKCF09, KB04, KPP09, LGP09, LC06a, LS02b, LDN04, LLIK01b,
 LJ09a, LS00, LW07, LH08a, LF04, LC03, LL08b, LZH⁺06, Mac07, MKM99,
 MP07a, MKLU05, MG07a, Meh04, MSYL00, MP01b, MAL09, NCW⁺09]. **D**
 [OTCM08, ORM06, OJW06, ON08, PAD07, PSC04, PCP08, PVPS09, QS07,
 RWWS07, RW08, RKE⁺07, Rom02, Rom07, RMF08, RFVP09, RVVL09,
 RW03, SROCdPFF05, SWG08, SMP01, SL07a, SA09, SPLM09, Stu01, SP00,
 TJS03, TS02, TPR05, VGS04, VL07, VBL07, VGZB09, VGBZ09, WGS06,
 WM09, WFC09, WZ09, XMT06, YM07, YBZ06, YJF⁺06, ZYKW01, ZZ01,
 Zha02, ZK05, ZJW06, ZJWC08, ZTPM05, dHRvdB07, dSMN⁺04, vDZ06,
 vZdBB07]. **D-leaping** [BCK09]. **d-quadratic** [CHL09]. **Damped**
 [Küm04b, Pro03]. **Damping** [HZ02, APT09, BCG09, CL06a, LH08b]. **Darcy**
 [EZ08a, BT09, GD07a, TC09a]. **Darcy-flux** [EZ08a]. **Darwin** [SG06]. **Data**
 [DCS00, GZ07a, Gut00, KFH⁺04, LCS02, Mac00, TK02, WPM⁺02b,
 DEHL06, DS08, GZ08, GD06a, GSK06, HS07a, KFIG06, KSJ03, KE09, RR07,
 RA09, SS09b, TPVG06, dCNHSD07]. **Data-driven** [GZ07a, GZ08].
database [TZ07c]. **Daubechies** [NG06a]. **Davidson**
 [BPS03, CL00b, SWTM01]. **dbar** [KMS04]. **dbar-equation** [KMS04]. **DC**
 [SUW01]. **De-aliasing** [KK03b, SVB09]. **dealloying** [EE08]. **deblurring**
 [CJLS09]. **decaying** [KMSH08, TMD07, YGL05]. **decision** [SMSS07].
decker [FK09a]. **decomposed** [Ber04, BUEG06]. **Decomposition**

[BC02a, IK01, PS02, QS02, Stu01, Sum00, AV05, ABL05, ARRS09, AAC07, AL06, BIW04, BCHL07, BL09b, BT07a, BT07b, BB09b, CC03, CELS07, CRB⁺08, CWD08, DDK06, DLP08, Edw06, Eg07, ES03b, Gom08, IQT08, KKCF09, LVL05, LDL⁺09, LJ07, NPH09, NL09, OMK09, PA05, SZB⁺07, SDR07, STD⁺05, SJC07, SXyWX09, TET09, VZSL07, WL03, ZT07a, ZSP08, dCNHSD07]. **Deconvolution** [AS02, AHF04, HBLD07, HAD06]. **decoupling** [GB08a, RVM07, SMAj08]. **Dedication** [RP08b]. **deep** [SW08c]. **deep-atmosphere** [SW08c]. **deeply** [BLW04]. **defeating** [Boy05a, Boy05b]. **defect** [CLL07a, KH08, PG04]. **Defects** [DDG02, VDM⁺02, HK06]. **deferred** [BLM03, HJM06, HJM07, JH08, LM04]. **Deflagration** [GP00b]. **Deflagration-to-Detonation** [GP00b]. **Deflated** [AMLC08, VSMW01]. **Deformable** [TC02, ZD00, CA06, LL07, ZEA06, ZD05]. **Deformation** [GH09, LLdIP⁺00, DLW06, FKK08, JA08, LS08, LQX06, MDM03, PS03b, SCRL08, VQLZ04, XMP07, ZK05, vZdBB07]. **deformations** [CGDT09, DT03, FGS09, MV08, ZFM08]. **Deformed** [AD01, AKL⁺08]. **Deforming** [VG02]. **Degasperis** [FL09]. **degeneracy** [GS05a]. **degenerate** [BAR08, WC08]. **delamination** [Oh04]. **Delaunay** [GS09b, LQX06]. **delay** [GKE04, KG03]. **delays** [BCK09]. **Deleted** [Boy02b]. **delta** [Bea08, ETT05, MG08, Sme06, Tow07, Tow08, Tow09a, Wen07, Wen09, YZLH09]. **Demonstration** [TWS02]. **dendrites** [TZ07b]. **Dendritic** [ART02, EKK02, GW02, PK00, ZH01, ART04, DQA08, TZ06, TZ07a, WLT08, ZGT06, ZVHP03]. **Dense** [Sni01, FY07, LMV04, LZL03, MEKS03, NFvS⁺06, SH07a, WWK05]. **dense-gas** [SH07a]. **densities** [BCDW06, SK08a, Sti05]. **Density** [BKR⁺01, CYKC01, Cul01, FS00a, FS00b, GBS00, GQ00, Lou00, NFvS⁺06, OS01, Pai01, SBGK00, Ver01, AT09, CCG08, Chr03, DBBP08, DSS07, FHW07, GS09c, HJFW04, HA09, IOTK04, Küm04b, LL05, LP06a, LF04, MP05, MP07b, MJ07, MDR07, NMM⁺07, NMH⁺07, Ni09, PS07d, RVM07, RVDM09, Ros03, Sam09, SF03, SD05a, SD05b, SE04, SDT08, Sur05, Tok06a, YZ07, ZSC06]. **Density-Functional** [Lou00]. **density-functionals** [Küm04b]. **Density-Stratified** [Pai01, SE04]. **Dependent** [AGH02, ACS00, ELW01, Gen01, Nys02, RTT01, VR02, AZB09, AFGM07, ACLS03, Ata04, BIW04, BH05, Bur05, CT08b, CJ07, DL04, DR09a, DKS⁺03, FD03, FKLY07, FH03, GN03, GP04, GK07, HDBW05, JBHK08, KW03, LWG03, LP04a, LB04, ML05, MU09, OPML07, RCD05, RRW05, SV07, Ten03, WRu03, WS04, YYF09]. **depending** [Tok06a]. **deposition** [AMH04, CK07, RRV06, ZK04]. **Derivation** [MvW08, SZ05, AI09, LT09a, OF06, SD05a]. **Derivative** [TT06a, CB03, Jar04, KYLB07, RC09b, ZW04]. **Derivatives** [ELC02, Giv01, BEE06, BHR04, Doh09, Gro06, Gro07, HKO07, MN04, MN17, ND04]. **derived** [MC07a]. **descent** [CSMH05]. **describing** [CLTA07]. **Description** [SUW01, CHBS04, HS09a, LGKP07, LL03b, LJS08]. **Design** [GGF03, HFO01, KHV01, LTL⁺09, SW00, WD07, XYK05, BHS03, CBGI09, FK09b, Hab04, Kuz06]. **designing** [ERVE09]. **detachment** [BHL⁺04].

details [DTS05a]. **Detection** [GKL00, AGSX09, HD07, PW07].
Determinate [Boy02b]. **Determination** [Dic08, GM01b, AKL⁺08].
determining [EN06, Pee03]. **Deterministic**
[ELC02, BCCV09, Cha07a, GS05a]. **Detonation**
[BJ02, BSJ01, GP00b, CDS04]. **detonations** [HAP06, TV08]. **detrended**
[Ham07]. **develop** [LS05a, Rah04]. **Developing**
[DZ00, DF00a, FE04, KSJ03]. **Development**
[BW02, CKR00, CKR01, CR00, EKP06, FT06, FCB02, sKKRH03, MEKS03,
SYC09, SSD00, Tol07, Tol08, WLC⁺06, Xu01b, YS07a, ZJS08, CS09, Hig05].
devotional [HH07c]. **Device** [DE02, CGMS06, CELS07, LSS⁺09]. **Devices**
[AIRY01, MP01a, MP02, ST01, And09, CGMS03, CL03a, CL05, FH07,
GS06a, dFGLS05]. **Dey** [NCW⁺09]. **df** [Chr03]. **DGBGK** [NJX08a].
diagnosis [HM09]. **diagnostics** [ACGV07]. **diagonal**
[Boy05b, Lur07, Tol08, UL06, WC07]. **Diagonalization**
[TR02a, CP06b, WC08]. **Diagrams** [DSS00]. **diameter** [AV03]. **diatomic**
[Myo04]. **dielectric** [CDJ07, DBF08, DC07, EG08, Mar06, ZK05].
dielectrics [WC07]. **Difference** [AC00, ACY00, ADK00, ADK02, Azm02,
BR09a, BC02a, Bla00, CS01a, CBB01, FVOMY00, FK02, GHV00, HLS02b,
HGN00, JL02, JMP02, KMJ01, MP01a, MP02, MF01, MF00, Nic00, NC01,
PK00, POS00, Rem00, SV00, TK00, VCP00, Vas00, VCTS02, VG02, WA02,
YP01, ZZ01, AE03, BS04a, BG07, Boe05, BMDS05, BSP06, CHH06,
CdHST08, CN05, CYS06, CS06, CS07d, Cui09, DMBS05, DBBP08, DS06a,
FDD09a, FDD09b, FK07b, Gro06, Gro07, GH08b, GLT07, GL09b, GL08,
HP04b, HWWL09, IK07, IM05, IM07, IQ08, JD09, JAK05, JM05, Jon05,
Kim07, KPP07, KPP09, LG08, LJW09, LX07a, LMS04, LSS06, LVW06a,
LLTA07, LS09, MN04, MN06, MN17, MST06, MSP⁺06, MGC06, MVO04,
NI03, Nik06, NF09, PAD07, PYC04, PH06, PH08, Pir07, RB06, Rom07].
difference [SROCdPFF05, SHA08, SHWC07, SYG06, SS05a, SZ05, STZ07,
SC09a, SS03b, SS05c, Sou09, SB03, zSW06, zS06, SN06, SCN07, SN08, TJ09,
Tan08, TD07, TdAAP08, Tow08, Tow09b, Tsu06, VPMC04, VLW07, WG09,
WF06, XS05a, XS05c, YMWM06, Yus06, ZZ07, ZH09, ZYHS07, dSHHM05,
dVGLM09, CBKM00a]. **difference-type** [WF06]. **difference/spectral**
[LX07a]. **Differences** [BBHM09, DF00b, Tol02a, Tol02b, Boy06, IOTK04,
Kum04a, LRS07, MLSD07, Tow09a, WZ07]. **Differencing**
[CM02, HH07b, Jor07, Liv07, LC06b, SZC09]. **Different**
[WK01b, NW07, QKS06, SD05a, ZQ09]. **Differential**
[AGT02, ABGV02, BCOS01, CKL00, GTD00, HMS08a, HMS08b, Hua01a,
MF01, MOvL00, SCD00, Tuc03, VB00, APR09, AKV06, AGT05, Asl04a,
BV05, CP03a, Chu09, DI09, EN06, GK03, GKE04, GBS06, HR01, HJM07,
IAT08, IDD04, KG03, LP04a, LCdCN⁺03, MZ09, MP07b, MK08b, MSO04,
MT04, Ngu07, Ngu08, PSD09, PCS⁺09, RBvdV08, RM08, SS08, SRNV07,
SKW05, SG03b, TE04, VSG05, WK05, YZW05]. **differential-algebraic**
[VSG05]. **Differentiation** [CSV00, BBB08, CP04a, GT05]. **Diffraction**
[Kan02, WWVG00, BHS03, JY08]. **Diffuse**

[DSS07, Gla01, FGS09, Kim05, RRV06, Sof09]. **diffuse-interface** [Kim05].
Diffusion [AGT02, BKR⁺01, BMS00, CL00a, CWT00, DE02, EES09, GZ01, Gen01, HFO01, Her00, HGM01, JR07, JM00, KLN⁺01, Kul01, KT00a, Li01, MHS02, MR07b, MHS01, MKR00, NGC⁺07, OGV02, PK00, SWL00, SSC00, VDM⁺02, WDM01, vdSE00, AS03b, ACGV07, AZ06, AINR03, BAYZ08, BMN05, BBHM09, Bar04, BBDE05, BMT09, BHR03, BM07, BSW05, Bur05, BEG03, BB08b, CLTA07, CS09, CP04b, CF06b, CS07d, Chr04, CS04, Cui09, DPRN06, DGM07, DGH08, DL04, DUEB07, EULM03, FG04, FG05, FM08, GZ07a, GLM07, GT05, GL08, Her09, HG03, HMR08, HST09, IG05, JBHK08, JHSZ07, KZ04, KLM07, KSS09, LT05, LG03a, LH05a, Lar07, LWG03, LLC06, LCW04, LLOT06, LDW07, LS05a, LX07a, LMS04, LSS06, LSSV07, LSV09, LOK05, LLGL07, LGM08, Low04, MJ09a, Mad06, MM07]. **diffusion** [MP07a, MEKS03, MMKP08, Maz06, MP07b, MG07b, MSP⁺06, Moo03, Moo07, MT07b, MK03, NV09, NZ05, NPC09a, NPC09b, Nis07, OS04, Ols07, PSZ09, PS07b, Pud06, RSM05, RBH03, RSO04, RS05, RS09a, SCT09, SW04a, SH07c, SO08, Sou09, SPLM09, TMS06, TM07, TD07, VSV03, VSH04, WG06, XS09, You06, YA05, YS07c, YS08, Yus06, dFGLS05, dFJS09].
diffusion-controlled [IG05, LG03a]. **diffusion-reaction** [MMKP08].
diffusion-type [Lar07]. **diffusions** [Buc05, LN09]. **Diffusive** [Azm02, JP00, TAL09, XS05c]. **diffusivities** [PSZ09]. **Diffusivity** [ML01b, FL07, KL08]. **digital** [KSJ03]. **dike** [LTD04]. **dilatation** [BS04b].
dilute [DFV08, Fox08]. **Dimension** [HA02, JWSC00, BFT07, Boy03, CDDL09, Cec05, COQ06, GZ08, JW03, Min03, Min04, WO05]. **Dimensional** [AJG01, ART02, ACS00, BMR01, BMRS01, BMRS02, BdLL01, BZW01, Cal02, CRB00, CWT00, CMOV02, CD00, DMG00, DCV⁺01, Del01, DK02a, DOWB01, Eli02, FVOMY00, FS00a, FS00b, Goe00, HK01, JW02, KK00b, KP00, LL00, LCS02, LK01, LMS02, Lou00, LWEM00, MR00, MR02, MC02, Pai01, PKvdB00, PL01, PWS⁺02, RV00, SHWW00, SJ02, Sni01, VD00, VD02, VS02, WK01a, WL02, Yua02, ZSP02, ZYC02, AvdB04, ARRS09, ART04, AK05, AV03, AC05, AB03, ABK09, AI09, AT09, AMS04, AMSZ07, BTW04, BFC04b, BS04b, BS04c, BDCG03, BM07, BBK07, BH05, BH04, BHP07, BL03, BCI⁺08, Cap06, CQO04, CKPW07, Che04, CC07, CSO09, CR09, CFGK05, CY05, DCF⁺08, DIL03, Dim07, DLP08, DI09, DS09b, ECL02, Eli03, Eli07, FNS07, FRS08, FS09]. **dimensional** [FHLK05, FCGK05, FKK08, GS09b, GB03, GP04, GGP06, GWF⁺07, GM04, Gos04, GM06, GKE04, Gro06, Gro07, Gui05, HT07, HZ08, HZGB05, HP04a, HD07, HAP06, HS08a, HT03, HGB⁺03, HLWW04, HLWW06, HWW07, IHL03, JVV07, JX06, JN07, JW09, KKS05, KSHS08, KK05c, KK05d, KKL08, KAK03, Kro01, KLP⁺09, LKD04, LG09, LSD07, LWP⁺09, Lee03, LZ09c, LDW07, LDPL08, LS05a, LR07, LT09b, LL03c, LTD⁺06, LVW06b, LTC07, LL08a, LDV08, LJ09b, LP04b, Ma05, Mai09b, Mai09a, MMS04, MRRS05, MSJ07, MST06, MP03, Men04, MR04, MG08, MT07b, MGNB09, NTYT01, NTYT02, NTB07, NFA03, ODAF06, Ols07, OLLL03, PKKL05, Pon09, PA07b, QS04, QLK07, RB05, RRC05, RS06a, RC06, SKWN03,

SBGK00, SSND03, SS07b, SP06a, SK04b, SCRL08, SS04, TM07, TOZP03, TM05, TPV07, TXCD07, TT04]. **dimensional** [TT05a, TOY09, TC07b, TC09b, TG08, TA06, UL06, VGCN05, VVS08, VCG03, VD03, Wag05, WK04, WZL04, WW04, Wen09, Xia04, XAI06, XHW07, XG09, YAvdB⁺08, YYT05, YXLF05, YKK08, YW07, ZWS07, ZP05, ZH09, ZLAC05, Zhe06, ZQ09, ZT07b]. **Dimensionality** [MN09b]. **Dimensions** [BCMO01, LTZ01, LTZ02, Nys02, RW00, SWL00, TNR02, CM06, CHL06b, CCG⁺06, Che07, DLW06, DR09b, EES09, GG04, GS08, GH02, GD06b, HLO08, HB05a, HB05b, JBF07, KLM05, LLP07, kM07a, MCG08, MR05, Moo03, Moo07, NWZL08, RS06b, SBCL06, Shy06, TTZ03, TT05b, VWW04, Wan04a, WO09, YBZ04]. **Diodes** [deM02, BMK⁺06, DGM07]. **diphasic** [Del07]. **dipole** [KDK⁺07]. **dipole-wall** [KDK⁺07]. **Dirac** [BL04, ETT05, HL06b, HJM⁺05, MG08, WT07b]. **Direct** [BRL02, CSS00, FLG01, FLM08, GPH⁺01, HdGKG08, HPZ01, HHM04, JLCD01, KB00, KH07, PG02a, PWS⁺02, Ros09, SW08a, SP04, SL04, SCW⁺09, SB02, Tak06, UL06, ZS01, AMH04, BHL07, BALW06, CTW⁺08, Chu09, CP04c, Dom08, FM05, FE04, GS06a, HK08a, HM05, JD04, KK09, KHdT⁺08, KSJ03, KS07, LDV08, LQ06, MTWW06, MC06a, MR05, MR07a, Mot08, Pet07, Pro05, SMS08, SP05a, TWM07, Uhl05, WMH07, YS07b, ZKDT07, ZZ07, ZD08, GKJW07]. **Direct-expansion** [Tak06]. **direct-forcing** [YS07b, ZZ07]. **direction** [CSMH05, SMAj08, ZXQX08]. **Directional** [NTYT01, NTYT02, SZ01, BF08, KW08b]. **Directionally** [BST01, BST03]. **directly** [BT03, CS07b]. **Dirichlet** [Bia03, GP04, GK04, Gui03, HW05, Hel09a, HO03, JM05, Mil08, NR01, SSN09, TB00a, YLA08]. **Dirichlet-to-Neumann** [GP04, GK04, Gui03, TB00a, YLA08]. **Dis** [BBvdV06]. **disc** [Hei04]. **Discharge** [CYKC01, KMA⁺01, hLA01, DMR09, SHPC09, SS04]. **Discharges** [HK00, HMM02, SPC01, PSCB08, SMSS07, UBR07]. **Discontinuities** [Asl01, NFK01, BFT07, Boy03, FH03, HN03, kM07a, Pri08, TJ09, THS07, VVS08, WAO⁺04]. **Discontinuity** [AGSX09, WC01, KL08, KYLB07, ZGG03, Zho07]. **Discontinuous** [BSJ01, BT02, BSB01, DPCV02, Gab07, GHW02, HH02a, HA02, Hub08, LS00, LZC04, Mac07, MPFC08, PL01, RH01a, RBvdV08, YS06, vdVvdV02, Ain04, AB07, BCDR06, BDHN09, BRC⁺09, BTT08, Ber04, BG05b, CT04, CDI09, CC07, CELS07, CS07b, CS08b, CHG⁺07, CLS04, CQRW05, CFP06, DD09, DLP08, DF04, DBTM08, ES06, FCJ08a, FCJ08b, FK07a, FOLD05, GLM07, GLMH09, Gir06, GR08, HH07a, HH08, JH06, JW06, KCGH07, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KWBH09, Kri07, KWD07, KDW08, LGHD08, LSY04, LSZZ08, LJS08, LY06, LX07b, LGM08, LBL06b, LBL07, LBL08, MRC06, MR06a, MGCR07, MN06, MHI08, MZ07, MESV09, NM06, NL08, NPC09a, NPC09b, OK04, PvdV08, QS04, QKS06, QLK07, RBS06, RC09b, SFE07, SMB09, WM07, WM09, WG09, WKG06, XXS07, XS06, XS05b, XLS09a, ZZFW06]. **discontinuous** [ZQSD08, ZQ09, vdVX07].

discontinuous-Galerkin [KCGH07]. **Discontinuous-Pressure** [BT02].

Discrete

[AS03a, BSJ01, Coe02, FF02, FGG01, FHLO08, GC02a, LL01a, MD02, Mar09, Mie00, PS07b, Poz01b, RTT01, SZ08, SS00, WPW02, AST09, BBC⁺06, Bea08, Boy06, BL03, CLS⁺06, CL07b, CT07, EULM03, Fen06, HV03, KWD07, KT00b, KSS09, LGP09, LK09, LC06b, MN09a, MY06b, MGS09, MD06, NZ07, PS07a, PA07a, PCS⁺09, RVD09, SFVK06, SC09b, WZ07, YZLH09, ZXQX08].

Discrete-element [Mar09]. **Discrete-Velocity** [Mie00]. **Discretely** [RC00].

discretisation [RJM07]. **discretisations** [Bal08]. **Discretization**

[Bar02b, BMS00, DMR09, Edw00, ETT05, FMO00, GFCK02, JP00, LBV00, MHS01, NE05, PYC04, SC01, T6t02, Zha02, AMR06, AB07, AB03, AKO09, BAYZ08, BB07a, BP03, BMDS05, BSP06, CS08a, Dar02, GF05a, HH08, IS04, JHSZ07, KK05c, KYK07, LL05, LSS06, LCS09, ML06a, MVD04, MKKY06, MZ07, MHPR08, NOG08a, Ols07, PvdV08, RBSL06, RWWS07, RS09b, SVB09, SP06a, TAL09, VV03, VK09, VWW04, Wan04a, BT07b].

Discretizations

[Boy02b, WK01b, ZDNP00, AD04, BHvdV06, CFR09, DWLM09, DF07, EV03, FDD07, FOLD05, FD07, HMPR07, KvdVvdV06a, KvRvdVvdV07, KWD07, MGS07, MG08, MAN⁺06, NFGK07, SMB09, TW05, TR07, WM07, ZT07b].

discretized [Chu09, DLP08]. **Discretizing** [Tow09a, Tow07]. **disease**

[NLT07]. **Disk** [BD01, WB01, BK08, LT05]. **Disks** [dlFMBdlFM02].

dislocation [SFVK06, WGS06]. **Disperse** [PO01]. **dispersed** [DDK06].

Dispersion [CL01b, MBP00, PFB01, VBL07, ZF02, CS09, CLS09a, FK07b, Kok09, LS05a, LLTA07, MST06, PSG05, SLV09].

Dispersion-Relation-Preserving [CL01b, CS09, CLS09a, LS05a, PSG05].

Dispersive [Ain04, CL01c, SW08b, BN04, BBMB07, BB04b, CJSS08, GP04, KSH⁺06, LSY04, LZC04, MY09, MGS09, PC08, ZH09]. **dispersively**

[SYC09]. **displacement** [VQLZ04, ZVQ07]. **Displacement-driven** [ZVQ07].

disposal [KP07]. **Dissipation** [SVB09, Xu01c, YVD00, Dwi08, LJ09b, PDHP07, PK03, PM08, RV09, TDWY08, VBL07]. **dissipationless** [ZGG03].

Dissipative [HJJ09, LMH07, MF01, MPFC08, WHV⁺00, Ain04, AWK07, BBMB07, BB04b, PK05, VHI05, VHI06, YS07a]. **Dissolution**

[JVVS07, EE08]. **Distance** [MS01, RS00, hRT02, BBK07, JC06a, Tuc03].

Distorted [Her00, YS07c]. **distortion** [KK09, ZJW06]. **Distributed**

[SPT05, BYZ04, BG05a, Boy06, CV06, DLMK04, LJS08, VB08, WZ07, vdDA06]. **Distribution**

[Abg06, CRD02, JK02, WB01, AM03, AM04, CS06, CS07d, DPRN06, GW06, Hub08, NFvS⁺06, Nis07, RCD05, RAD07, RB09a, Ros08, SH07a, ZZ09].

Distributions [CVB00, Pop00, VS07]. **Disturbance** [DC01, Sur05].

Divergence

[Bal01, Bal09, DKK⁺02, MOS⁺00, SCC09, Tol02a, Tol02b, TR02b, AT05a, AT08, BRDM09, CLS04, CEL06, LL04b, LD04, NMS07, TA06]. **Divergence-**

[TR02b]. **Divergence-Free** [Bal01, Bal09, BRDM09, CLS04, LL04b, LD04].

divergence-preserving [AT08]. **DLM** [SL07a, Yu05b]. **DLM/FD**

[SL07a, Yu05b]. **DNA** [GPL05, vHBB02]. **DNS** [DHM07, KIH09, Pro07, YGL05]. **DNS/LES** [DHM07]. **Domain** [ARRS09, BIW04, BC02a, BCM09, CR08, CBB01, CC03, DDF01, GHV00, GPH⁺01, HW02, MKL06, PS02, POS00, Rem00, SZB⁺07, Stu01, VDM⁺02, YP01, AvdB04, ABL05, AA09, AL06, BCHL07, BG05a, BSLN09, BP08, BUEG06, BB09b, CdHST08, CELS07, CTT08, CWD08, CFP06, CD07, DDK06, DGMN03, DLP08, FLE03, FK07b, HZ08, IQT08, JM05, KF06, Lau04, LW06, LVL05, LL04a, LT09a, LS09, LJ07, MVD04, MLSD07, MJ06, Mil08, MPFC08, NPH09, OMK09, PAD07, RAB07, RMV03, RJ04, SDR07, SHWC07, STD⁺05, SWZ03, SPT05, SL07b, SC09a, zSW06, zS06, SXyWX09, TZ06, VPMC04, VW02, VMN07, VS07, VZSL07, Wag05, WC08, XMP07, YCL05, YSW06, YS07b, ZH09, ZSP08, ZW06, dSHHM05, dHRvdB07, PP09]. **domain-decomposition** [BB09b, LJ07]. **domain-type** [BSLN09]. **domain/finite** [DGMN03]. **Domains** [ACS00, BC01, BW01, BMQS02, CR02, GFCK02, Goe00, HJ02, LFK00, MCJ01, PR01a, AST07, AC05, ACLS03, BB08a, BP07, CGDT09, CHCOB09, DD03a, DD03b, GS07, GF05a, GLLN07, GLLN09, IDD04, ILL09, KZ06, LG09, LF05, Mad06, MM07, MG07c, NN04, PL08, SS08, SC08b, YBZ06]. **dominant** [Edw06, TW07]. **dominated** [KIH09, TB06]. **dot** [HLWW04, HLWW06, VTW⁺07, Vos06]. **dots** [HWW07]. **Double** [Che00a, Che00b, CKGL02, CKG04, LS03]. **double-Fourier-series** [CKG04]. **downwind** [LWW04]. **DPD** [FPK08, SK06]. **DPEM** [LJ09a]. **Drag** [HGM⁺00, MK02a, LH05b]. **Drift** [BMS00, BZB00, DE02, BBDE05, DGM07, ESD05, GBB⁺06, GD07a, dFGLS05, dFJS09]. **Drift-Diffusion** [BMS00, DE02, BBDE05, DGM07, dFGLS05, dFJS09]. **drift-kinetic** [GBB⁺06]. **Drift-Wave** [BZB00]. **drill** [CP03b]. **drill-string** [CP03b]. **Driven** [AQV02, APQ02, DGA08, EAY01, SZ01, Str01b, AK05, CBJdlC07, DTS05a, DTS05b, GZ07a, GZ08, GGP06, HKM08, MY07, MP05, ML04, OK06b, Pau07, Pop09, RWMK03, SW04a, VQLZ04, ZVQ07, ZZ09, VS09]. **Driven/Time** [VS09]. **Drives** [WB01]. **Drop** [CBL01, CB09, JA08, YFLS06, ZK05]. **Droplet** [BW02, SR00a, JS05, KH07, LKMU05, NTB07]. **droplets** [RGS04, SW08a, WSI08]. **Drops** [HLZ02, ZD00, JA08, YZF07, ZD05]. **Drum** [OS01]. **dry** [GPC07, Vol04b]. **drying** [SHTB09]. **DSC** [WZ07, Boy06, SWZ03]. **DSMC** [AA02, GTRB09, GMAj09, Mac01, Mac03, MY07, OC08, SL04, WLC⁺06]. **Dual** [GHG01, ZTZ02, CGH05, CS09, HC08, Hua07, LJ07, MKKY06, NPH09]. **dual-compact** [CS09]. **dual-field** [LJ07]. **Dual-Reciprocity** [GHG01]. **dual-time** [Hua07]. **dual-time-stepping** [HC08]. **duct** [Ata04, DB04, HY09, HY11]. **due** [BBF⁺08, Dwi08]. **Duffing** [LTD⁺06]. **Dust** [dlFMBdlFM02]. **Dusty** [Sai02]. **Dusty-Gas** [Sai02]. **Dyadic** [CY00]. **Dynamic** [DIV00, EH02, GC02b, HF08a, MKM99, MKM04, SM06b, THN⁺07,

vdVvdV02, AZB09, BIW04, BS03b, Che04, CSKD05, DDM07, DEHL06, FDD07, FDD09a, FDD09b, Fen06, Gra06a, HBLD07, Lap03, LDN04, LKE04, LQX06, LP06b, MG05a, MY06b, PKKL05, PS03b, TLAD04, YKG04].

Dynamic/Thermodynamic [GC02b]. **dynamical**

[AS05a, BBF⁺08, CBJdlC07, SW08c, Thu08b]. **Dynamically**

[CH01, Eld08a]. **Dynamics**

[Bar02b, BJS01, BZW01, CPP02, DPR00, DPRS01, DGA08, GK02, Hun01, LR01a, dlFMBdlFM02, Poz01a, QRHD00, SSL00, SZS01, TTSG01, TSG02, VCG03, VCTS02, WHV⁺00, YSC01, Yon01, ZSP02, deM02, Alb08, Alb09, AWK07, ALT08, AKP07, BIW08, BLS08, BW06, BPMR08, BS04b, BBvdV06, BDCG03, BOK⁺06, CFM09, CELS07, CJR04, CDL04, DSJ03, Dim07, DTS05a, DTS05b, DST07a, DDDC07, Eld07, ES03a, ET06, FS04, GFS08, GCCD07, GV06, GPL05, GT09c, Har04, Her05, Hew03, HS04, IAT08, JG09, KKM08, KFH⁺04, KG09, KK05a, KIW09, KP05, LLP07, LM04, LPK05, LRS07, Ler06, Li08b, LSK06, LL06a, LLZ07, LW04, LMH07, LZH⁺07, MGCR07, MC07a, MPD08, ML04, MK04a, NDT06, OK07a, Pal08, PGB05, PC08, Pau07, PPCW06, PK05, Pro03, RCT07, RFFP06, SKR06, Sam09, SDS07].

dynamics [SLF08, SHY07, SFVK06, SHP07, SS09c, Sto07, SC08b, TS04, TCO⁺04, TPR05, VS09, VGZB09, VGBZ09, Vil08, VHI05, VHI06, VCM00, WGS06, WZ03, YWC07, YHSX07, YZL⁺06, YZF⁺06, ZGK09, ZRS06, dWKL07, vLAvdV06, vZS07]. **dynamics/continuum** [JG09]. **dynamo**

[XSG04, XSG08]. **dynamos** [TFD06].

Earlier [Mac00]. **early** [CGN⁺07]. **earthquake** [BIW08]. **easily** [MKLU05].

Eddy

[FLG01, FG02, KK00a, LLQ⁺02, ME09, Nov04, PPC00, TSB01, AD04, BBB08, BS03b, BO04, CM03, CSKD05, DS09a, EPW08, FDD09a, FDD09b, Gra06a, Gra06b, HBLD07, HP04b, KSJ03, KDC05, LP06b, Liu09c, LDV08, MCM04, MLM09, MGS07, MBP07, MMPB07, MHdB07, NLF03, PDHP07, PYC04, PM07, RMG⁺09, SSW⁺07, SFMP06, TSB03, TMD07, VK09, XLP05, YB06].

eddy-current [EPW08]. **Edge**

[MP01b, RXH02, WS01, BHvdV06, LLB05, MP08, SS05b, VTW⁺07].

Edge-Based [WS01, SS05b]. **Edge-Plasma** [RXH02]. **edged** [YZW07].

Editorial

[Ano00-29, Ano01-29, Ano02-29, Ano03l, Ano04a, Ano04b, Ano04c, Ano04d, Ano04e, Ano04f, Ano04g, Ano04h, Ano04i, Ano04j, Ano04k, Ano04l, Ano04m, Ano04n, Ano04o, Ano04p, Ano05a, Ano05b, Ano05c, Ano05d, Ano05e, Ano05f, Ano05g, Ano05h, Ano05i, Ano05j, Ano05k, Ano05l, Ano05m, Ano05n, Ano05o, Ano05p, Ano05q, Ano05r, Ano06a, Ano03a, Ano03b, Ano03c, Ano03d, Ano03e, Ano03f, Ano03g, Ano03h, Ano03i, Ano03j, Ano03k, Ano03m, Ano03n, Ano03o, Ano03p, Ano06b, Ano06c, Ano06d, Ano06e, Ano06f, Ano06g, Ano06h, Ano06i, Ano06j, Ano06k, Ano06l, Ano06m, Ano06n, Ano06o, Ano06p, Ano06q, Ano06r, Ano06s, Ano07f, Ano07g, Ano07h, Ano07i, Ano07j, Ano07k, Ano07l, Ano07m, Ano07n, Ano07o, Ano07p, Ano07q, Ano07r, Ano07s, Ano07t, Ano08a].

Editorial

[Ano08b, Ano08c, Ano08d, Ano08e, Ano08f, Ano08g, Ano08h, Ano08i, Ano08j, Ano08k, Ano08l, Ano08m, Ano08n, Ano08o, Ano08p, Ano08q, Ano08r, Ano08s, Ano08t, Ano09a, Ano09b, Ano09c, Ano09d, Ano09e, Ano09f, Ano09g, Ano09h, Ano09i, Ano09j, Ano09k, Ano09l, Ano09m, Ano09n, Ano09o, Ano09p, Ano09q, Ano09r, Ano09s, Ano09t, Ano09u, Ano09v, Ano09w, Ano09x].

EDQNM [BBB08]. **Effect** [LGP09, NOG08a, WB09b, de 00, LY06, PAD07].

Effective [DLD08, LM01, PSN00, CSL08, GGRS08, LM03a, LWF⁺08, MTWW06, MCP03, PSZ09, ZC09]. **effectiveness** [LC06a]. **Effects**

[LSD07, NF09, SMAj08, VLKM02, YE07, AINR03, DM03, GS05a, HC08, HS07b, ID04, LGKP07, LLZ07, MP07a, ML08, PS05, SS03a, WWC07].

Efficiency

[CGMS06, RRV01, Cam03, EKP07, LDPL08, MJ06, SROCF03, SFVK06].

Efficient

[And09, AST09, BLS08, BRDM09, BCL06, BY07, BCDW06, BST01, BIVC07, Bus00, CWJ07, CH01, CFR09, Che07, CSMH05, CSV00, DH04, DDF01, DGP00, FPC⁺00, FGOV00, GK02, HPS06a, HWL08, HBHS09, HPS⁺06b, JD04, JW09, KS02b, KB00, KB01, KAS08, LKE04, LCB09, LMS02, NJX08b, NZZ06, Ols07, OJW06, PHW08, PA07a, PC02, RH01a, RA09, Ros07, Saf02, SHS08, Sch08, SZS01, STiST02, TK02, Tok06b, VCT09, WLT08, WZ03, XS09, Yok07, ZD00, vBRK01, AR08, BL04, BW06, BMT09, BJ09, BSLN09, BB09b, BH04, BP07, CLG07, CRAG07, CP06b, CP06c, CW08, CFGK05, CWD08, DBF08, EKBL09, Fan08, FWR07, FCGK05, GN07, GV06, GTMC08, Gri09, HNF07, HS08b, HWWL09, HDR⁺06, IH04, JRS05, JL04b, KK05c, KK05d, KK07, Kro01, KSW03, KR09c, KS07, KLP⁺09]. **efficient** [LL09, Lar07, LLRP09, LZH⁺06, MNR07, MBP07, NG06a, NMG09, RWMK03, SPB09, SWB⁺06, SF03, SE09, SY09a, TAL09, VPMC04, WT07b, ZL04, ZZ08]. **efficiently** [EKP06]. **eigen** [CJSS08]. **eigen-oscillation** [CJSS08].

eigenelements [LM08b]. **eigenfunction** [GKE04]. **eigenfunctions**

[Hau08a, Hau08b]. **Eigenmode** [CL00b, DMG00]. **eigenmodes**

[DD05, LL04a]. **eigenpairs** [GB08b, Ovt08]. **Eigenproblems**

[Boy02b, GG00]. **Eigensolution** [HA02]. **eigensolver** [CGC⁺09].

eigensolvers [VTM⁺08]. **Eigenvalue**

[AKV00, Mit00, BBD04, CC03, DL03a, NU09, SP05c]. **Eigenvalues**

[Mit00, Hab04, Heu03, VCT07]. **Eikonal** [LSZZ08, QS01, CT08b, FLZ09].

Einstein [BT03, BJM03, BW06, BCL06, BS08a, CHH06, CKLS05, CLS05].

ejection [KfV07]. **Elaborating** [vEB05]. **Elastic**

[Bon00, BG09, GF02, HB02, LLN00, LAS01, MC01, WP09, APT09, AK06b, BS08b, BCZ04, CLS⁺06, DLW04, DLW06, GH09, GFS08, HMMR04, HK08c, HS08c, IQT08, LS08, LP04b, TLL⁺08, TC07b, TC09b, XCY06, YAvdB⁺08].

Elastic-Plastic [GF02, HB02, MC01]. **Elastic-wave** [BG09]. **Elastically**

[ATV01, LN09, RRV06]. **elasticity**

[BDRT09, Hau08a, Hau08b, MHPR08, YHCD05]. **elasto** [BZ04, ZVQ07].

elasto-plastic [ZVQ07]. **elasto-thermo-viscoplastic** [BZ04].

Elastodynamic [Gro00]. **Elastodynamics** [PKvdB00, CCV03].
elastoplasticity [SKS08]. **Electric**
 [CP03b, GG00, HR08, AvdB04, AINR03, GFG09, HPS06a, HF08a].
Electrical [CCT05, GKL00, HCG01, SPC01, IKL⁺08, LWW04, SMSS07].
electrically [AL06, FH03]. **electro** [KK03a, Mar06, WWC07].
electro-osmotic [WWC07]. **electro-static** [KK03a, Mar06].
electrocardiology [GGMN⁺09]. **electrochemical** [BP07].
electrodeposition [SS08, ZSB⁺08]. **electrodynamics**
 [BS05, BS06a, MGS09]. **electrohydrodynamic** [TGB⁺07, ZK05].
electrolyte [CKPW07, SXyWX09]. **Electromagnetic**
 [BEPT09, CY00, CBB01, CP07, CL00b, FM06, HAAO00, HKM07, Kan02,
 OMG02, PL09a, SZ01, SFW00, Vay01, VQSZ02, AKL⁺08, AV03, Bet08,
 Bot08, CJSS08, CP03c, CT07, CSML06, DS09a, EG08, FCJ08a, FWR07,
 GH08a, Hoh06, KT06, LZL03, MRRS05, MLFG06, NCW⁺09, OMK09,
 SHWC07, SC09a, VZSL07, Woo06, ZSW03, ZW05, ZH09, dSHHM05].
electromagnetics [Bér07, SCC09]. **Electromigration** [AIRY01, AIR03].
Electron
 [HK00, Saf00, Saf02, BBF⁺08, DGM07, ED07, GS05a, GLS03, GM04, Gos04,
 GM06, HBHS09, JP03, KB04, PPCW06, PA05, RRC05, SMSS07, dWKL07].
electron-molecule [SMSS07]. **Electronic**
 [CWWZ00, LCG07, TR02a, BCHL07, CGL06, HBHS09, KKCF09, Küm04b,
 LZ07, VTM⁺08, WBM09, YMW06]. **electrons**
 [CP03c, Hag07, Kwo08, MK04a]. **Electrophoresis** [vHBB02].
Electrophysiology [Ota00]. **electroseismic** [GH08b]. **Electrostatic**
 [BISS01, BZB00, GBS00, HF01, GS09b, KKD08, LSA06, LWW04, LCM07].
Electrostatics [GL06, AA07, GPVB07, XJ07]. **electrothermomechanical**
 [LTM09]. **Element**
 [BMR01, BW01, CHR01, CWT00, Cod01, Dur00, GM01a, GP00a, GHG01,
 Han00, HH02a, HCG01, LTZ02, MPP01, OMK09, PX02, SC01, Stu01, Whi00,
 WK01b, YMF01, ZYC02, ZH01, vdVvdV02, AH08, Ain04, AMR06, AG09,
 BAYZ08, BHL⁺04, BMN05, BGN07, BGN08, BGM08, BS04b, BBvdV06,
 BS03b, BS04c, BT06, BHvdV06, Boy04, BEG03, CJSS08, CCG08, CLG07,
 CCV03, CL03a, CXZ09, CS07b, CLL⁺07b, CS08b, CJ04, CBH03, CQRW05,
 CHPR09, DR06, DW09, DGMN03, Dim07, DF04, DBB06, EGHE06, EE08,
 ÉGP09, FHW07, FEL⁺05, FK06, FHLO08, FD03, FWR07, FWK08, FBHV05,
 Fou06, GPF03, GW05, GR08, GCCD07, GR07, GV07, GLLN09, GLT07,
 HPS06a, HS09a, HZGB04, HZGB05, HPD09, HdGKG08, HY09, HY11,
 IDD04, IHL03, Jar04, JBF07, JZ08, JLL⁺06, KCH06, KW06, KR09b, KB08].
element [Kuz06, KSS09, KS07, LFSS07, LW06, LJSM08, LCW04, LL06a,
 LLZ07, LSS⁺09, LM08c, LNXNTX09, Liu09c, LY04, LJ07, MY06a, MZ08,
 MK08a, Mac07, Mad05, MWM03, MR06a, MGCR07, Mar09, MB04, MP03,
 MCN03, MDM03, NV09, NLLE06, OVG07, PP09, PR04a, PvdV08, PR03,
 PR04b, Pon06, Pon07a, Pon07b, PR06, QP03, RBvdV08, RRW05, RFFP06,
 RJ04, SB06c, STD⁺05, SM06b, VW02, VCM00, WK05, WK04, WLT08,

WZL09a, WZL09b, WGRA09, XJ07, XP04b, ZGT06, ZYL⁺06, ZHSS09, dFJS09, vOP04, vdBG09]. **element-finite** [IDD04]. **element-wise** [CBH03]. **element/finite** [SS06a]. **element/volume** [GV07]. **Elements** [BT02, BS00d, CGSS00, CSP01, HL01, KT02, MP01b, PW00a, PC02, PG02b, ST01, WPH00, WB09b, AK07, BJP04, CHL09, CP04b, CGC⁺09, CH08, GLMH09, HK08a, HMMO05, KLP⁺09, LJW09, Mad06, NL08, Pon07b, SGG⁺04, SG03a, VZSL07, WHS08, YZF⁺06]. **elevation** [VTT08]. **Elimination** [JTB02, GCLB04, LY07b]. **ELLAM** [LDW07, LTC07, WLE⁺00]. **ellipses** [DTS05b]. **ellipsoidal** [LKMK09]. **ellipsoids** [DTS05b]. **Elliptic** [Che00b, OKL01, SC01, Xu01a, ABLS05, APQ03, AQ07, Ber04, Bor07, BL05, CFS09, CHL09, CT04, CC03, CGDT09, CS08a, CXZ09, CS07c, DIL03, DT03, HO08a, Hel09b, Heu03, HL05, JLT03, Kau03, KS07, MY06c, MD06, Ngu07, Ngu08, NvL03, OK06a, OSK09, PSM08, PC06b, Str07a, VK05a, YBZ06, YH07a, YZW07, ZJWC08, Zho07, ZZFW06]. **elliptic-hyperbolic** [PC06b]. **elliptic/hyperbolic** [NvL03]. **elliptical** [MTH08]. **elongated** [MR07a]. **elongational** [DMHP07]. **Embedded** [MCJ01, Bet08, CD03, CGKM06, DND06, JM05, KL04, NA08, OK06a, SSN09, SBCL06, VB09, YB06]. **embedded-boundary** [NA08, VB09, YB06]. **embedding** [RM08, dHRvdB07]. **Emden** [PSD09]. **Emitter** [ST01]. **Emitting** [deM02, BMK⁺06]. **Empirical** [CWWZ00]. **emulsion** [ZD08]. **emulsions** [KH07]. **Enablers** [BBI09]. **enclosed** [LS08]. **energetic** [CDS04, HS04, YFLS06]. **energies** [ED07]. **Energy** [BV00, Bar02a, BKR⁺01, BS00d, CRB00, CBKM00a, CBKM00b, FK02, HK00, JTB02, LW01, LW04, MR03, RSSL09, SC01, SNLS03, VP00, YC09b, BT03, Bur05, CLS05, CL03a, CL05, CL08d, DSM09b, DST07a, DLW04, DLW06, DOW08, ESD05, FL06, HM09, HDBW05, HK04c, KJ09b, KPP07, KPP09, KLSW09, LRS07, LLZ07, Mai04, MY09, NG06a, Oh04, QFR04, RC09a, RSS09, Rom07, SKK⁺08, SLG⁺03, SHP07, SC09b, TDWY08, Vos06, YC09a, YMW06]. **Energy-Conservative** [CBKM00a, CBKM00b, FK02]. **energy-conserving** [MY09]. **Energy-Preserving** [LW01]. **energy-stable** [KPP09]. **energy-transport** [CL05, Rom07]. **Engineering** [PVR07, Lap03]. **enhance** [LXM09]. **Enhanced** [EKP07, GE07]. **Enhancing** [FHD⁺09]. **enlargement** [ZSW07]. **ENO** [WH02, CS07a, EAY01, GSD01, SM04, UTBV03, VS02]. **ENO-Padé** [WH02]. **Enriched** [CWYM08, vdBG09]. **Enrichment** [Dys01, ZWL02]. **Ensemble** [LP08, LX09, ZIP06]. **Enslaved** [JMP02]. **enstrophy** [KJ09b]. **Entanglement** [RS02, Kar04]. **entanglements** [LMK03]. **entries** [LAKD08, ODAF06]. **entropic** [DGM07]. **Entropy** [CL01a, Gos02, RS02, Rom02, SLY02, YVD00, Abr06, Abr07, Abr09, FDK06, GG09b, HM04, IR09, Ser09, TDWY08]. **Entropy-Conservative** [CL01a]. **entropy-consistent** [IR09]. **entropy-fix** [Ser09]. **entry** [DB04, LZ09c]. **envelope** [HS07b]. **environment** [CDR09, DQA08]. **environmental** [RCB05]. **EPI** [Tok06b]. **Epitaxial** [CMK⁺01, RV00, BHL⁺04, CLS⁺06, CF06b, HLX06, RS06b, SSE03]. **Equation** [ACK02, AGH00, AGH02, AQ00, BC02a, BJM02, BD01, BdLL01,

BC02b, CL00a, DV02, DP00, Dys01, Eli02, FBFF00, FSB01, FP02, FSY00, GZ01, GFCK02, GF02, GR08, GC02b, Gua00, GSW00, HMS08b, IKS01, JPMC01, JP00, JM00, KK00b, Kul01, LL01a, LFK00, LW01, LAS01, MBP00, MCJ01, Mie00, OGV02, PB00, SFY01, SDD07, SKAS01, SWL00, Shy01, SKXK05, SR00b, Stu01, TRL01, Vay00, Vay01, WL02, YFS01, ZZ01, Zha02, AST07, AHPT07, AMR06, AC05, AK07, AB03, ABK09, AL08, Asl04a, Ata04, AMLC08, BAYZ08, Bal08, BJM03, BYS08, BC05, BFT07, BFT09, BFG07, BLM08, BIS07, BS03a, Boy03, Boy05a, BZ09, BL05, CHL06a, CL08a, CPG04, CR07, CLTA07, CHL06b, CCG⁺06, CT08b, CS09, CLS09a, CJK⁺03, CS04, COR08, CDL04, CDL05, CkM07, Cui09, Dar02]. **equation** [DBF08, DSJ03, Dem04, Den07, DWLM09, DNS08, DC08, Dur08, EB06, FL09, FT05, FR03, FK09b, FH07, FF03, FLZ09, GS06b, GPVB07, GKL03, GS09c, GD06b, HPS06a, HK06, HKM08, Had05, HMOG08, HZ08, HMS08a, pHL09, HHPW08, HMPR07, HKG08, HL07a, HW05, Hel09b, HHC08, HH07c, HL05, HWWL09, HLX06, IKS⁺09, JLOT05b, JW06, JY08, JM05, JKL05, KMS03, KW06, KNH05, KMS04, KR09c, LT05, LH05a, LLY05, LP07a, LL03b, LL05, LTE07, LTZ03, LG03b, LG04, LG07, LGK06, LX07a, LT09b, LY06, LS09, LC03, Mac07, Mai03, MRC06, MCGV04, MKKY06, MST06, MP03, MGC06, ML06b, MK07, MG05b, NV09, Nas08, Nis07, NXS07, PC08, PHW08, PIN09, Pon05, PPB09, Pud06, QA09, RSSL09, RKE⁺07, RBK09, SFDL07, SBCL06, SCT09, SCT06, SB09, SY09b, ST04]. **equation** [SS07c, zSW06, zS06, SB07, TMS06, TM07, Tau07, Ten03, TW05, Tok06a, TR07, Tuc03, UL06, VWW04, Wan04a, WT07b, WXG07, WZ09, WKG06, WKL07, XSG04, XSG08, YBZ06, YA05, ZXQX08, ZKL⁺07, dSM05, dHRvdB07]. **equation-based** [Tuc03]. **Equation-free** [SKXK05]. **Equation-free/Galerkin-free** [SKXK05]. **Equations** [AGT02, ABGV02, Asl01, ACS00, BL09a, BC01, BCOS01, BT02, BBR01, BCVK02, BM01c, BZW01, BS00e, BCM01, Cal02, Car02, Che00a, Che00b, CL01c, CKL00, CL02, DMG00, DC01, DKK⁺02, DDH01, DF00b, DK02b, Dur00, FF02, FMO00, FR02, GTD00, Gir00, GHW02, GBGM01, Han01, HH02a, HH01, HDC02, HH02b, HW02, HF01, Hu01, Hua01a, HK01, IFZ01, JMK01, KLN⁺01, KR02, KM00, KB01, KT00a, KT00b, LBV00, LBV01, LTK⁺02, Lay02, LLIK01a, LLIK01b, LOK01, LC01, LL01b, Li01, Lin01, LMS02, MPP01, MR02, Mai01, MCCT02, MC00a, MF01, MF00, MG02, MLS01, MOvL00, MPC01, MPC02, Myo01, NTYT01, NTYT02, Nys02, Pai01, Pet01, Rei00, RB02, SSD00, TWS02, VB00, VS02, WDM01, WPH00, WZ02, WK01b, WA02, WS01, XCZ02, XK01, Xu01c]. **Equations** [Xu01a, Xu02b, YP01, ZYC02, ZCMI01, ZS01, ZDNP00, AS03a, AvdB04, APR09, APT09, AKV06, AGT05, AB07, AMXL09, AEP04, And09, AI09, ACLS03, AG08, BQQ09, BR09a, BFB08, BTW04, BLW04, BY07, BGN07, BG07, BCDR06, BV05, BB07a, BACFT05, BES07, BFG08, BRC⁺09, BTT08, Ber04, BK08, BF07, BYZ04, Boe05, BB07b, BT06, BRP05, BJ09, BT07a, BHvdV06, Bot06, BS06b, BGLN05, BEPT09, BL03, CD03, CHH06, CVB06, CP03a, CHL09, CQO04, COQ06, CS05, CCJ07, Cha07a, Cha07b, CWL08,

CC07, CTT08, CS07b, CS07a, CSL08, Chu09, CJ07, CS03, CLS04, CY05, CT07, CFP06, CFJ06, CZVS04, CFP08, DR06, DJM05, DDSV09, Del03a, Del03b, DGH08, DR09a, DD09, DH07, Doh09, DLP08, Dom08, DI09, DJTT05, DD03a, DD03b, DZ09b, DOW08, EHST03, EHS⁺08]. **equations** [EG08, ES06, EN06, ES03b, ELW04, FCJ08b, FYH⁺06, FL03, FOLD05, FD07, Fox09, FKLY07, FG06, FMR09, FH03, GPC07, GB08a, GS07, GK03, Gel06, Geo08, GSV06, GFR09, GF05a, GCNB07, GPF03, GW05, Gir06, GR08, GTMC08, GKE04, GR04, GBS06, Gri09, GE07, GLLN07, GD07b, GD05, GK05, HH07a, HLS06, HK04a, HR08, HMM08, HH08, HK08a, HC08, HO08a, HLO08, HJJ09, HLMM07, HL06b, HyLL07, HJL09, HLRZ06, HS08b, HS08c, Hu05, HLL08, HJM07, HMR08, HMM07, HC05, IX07, IM07, IHL03, IQ08, ILL09, JBF07, JR03, JR04, JHSZ07, JMC03, KE06, KOQ04, KOQ08, KSH⁺06, KDK⁺07, KP04, KG08, KJ09b, KAK03, KL04, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KL06, KS09, KT03, KT05, KG03, KLM05, KN04, KQW03a, KQW03b, KLSW09, LY07a, Lar07, LHD05, LGHD08, LS03].

equations

[LMN⁺09, LM08a, Lee05, Lee09, LFS07, LQ09, LSY04, LP04a, LSZZ08, LLOT06, LDPL08, LYC09, LMS04, LSSV07, LSV09, LRZ04, LW07, LP07b, LX07b, LW09, LCS09, Liu09b, Liv07, LGM08, LZC04, LMNK07, LB04, LBL06b, LCdCN⁺03, MZ09, MJ09a, Mai04, MVD04, MP07a, MCG08, MR05, MY09, MSS08, Maz06, MHB08, Mea04, MK08b, MSO04, MOG09, MT04, MG06, MD06, MPFC08, Moo03, Moo07, MAN⁺06, MT07b, MSB07b, Mou04, MDR07, NW07, NZ05, NOG08a, NFGK07, Ngu07, Ngu08, NPC09a, NPC09b, Ni09, NI03, Nik06, NMS07, NGvdWS09, OS04, OK06a, OSK09, OX04, ORM06, Ols09, OK06c, ON08, PAD07, PSD09, PNMK09, PvdV08, PCS⁺09, PR03, PR04b, Pop03, PR06, PGN08, QS05, RC09a, Rah04, RCT07, RBH03, Rem06, RS06a, RBvdV08, RAD07, RRW05, RSO04, RM08, SSN09, Sac07, SS03a].

equations

[SFDL07, SZB⁺07, SDM04, SM06a, Ser09, SS08, SRNV07, SFE07, SMB09, SWZ03, SP04, SL07b, STZ07, SHTB09, SP05b, Soc03, SKW05, SG03b, ST03a, SCN07, SN08, STR07b, TTZ03, TL06, THL06, TBT⁺09, Thö04, TXCD07, TKH09, TOY09, TdAAP08, TE04, TG08, TS08, Tsy04, TFDK04, VPMC04, VVM05, VW02, VSW04, VSW06, VTT08, VSG05, VK05b, WK07, WK05, WRu03, WM07, WGS⁺08, WM09, Wel07, WKB07, WZ03, XXS07, XS05a, XS09, XS05b, XHW07, XD07, You06, YZW05, YS07c, YS08, YLA08, YE05, Yus06, ZYL⁺06, ZW04, Zhe06, Zhe07, Zho07, ZZFW06, ZT07b, dDEK09].

Equidistribution [BMRS01, Hua01b, DCF⁺08]. **equilateral** [MR03].

Equilibria [BBG⁺02, SHWW00]. **Equilibrium** [BKR⁺01, Cle00, DSS00, AZ05, BP03, BSW05, CGP05, CP07, CK08, DL04, GT09a, GT05, GWF⁺07, GLN06, JSCZ08, JG09, MKR00, MK03, ORM06, SSB07, WSYS09, XHC08].

equivalent [LM08a, RE07]. **Erratum**

[ABRR09b, CL08b, DKX01, DD03a, HMS08b, HT00b, HY11, HLWW06, JJGL07, Lau06, Mil07, NTYT02, PW01, Tol02a, WZL09b]. **Error**

[Bar02a, CHR01, FWK08, GKD09, KLN⁺01, LMK09, OV00, OP02, SDS07,

ST03b, VD00, Yam01, CLMRP08, CC07, CY05, DL03b, Dur08, Dwi08, HGBH03, HNGB04, HS03b, KK09, KKO04, Lap04, MGS07, MK04b, Ngu07, PG04, RS09b, SVH⁺06, TWM07, WK06, OV00]. **error-assessment** [MGS07]. **Errors** [FLG01, BBB08, CP06a, CM03, DL03b, GD06a, KLM07, PYC04, PM07, Vil08, VK09]. **Essential** [APQ03]. **Essentially** [Abg06, BS00a, WC01, WH02, BCCD08, CL06a, HAP05, TWM07, ZSWW03, ZWS06]. **estimate** [WK06]. **Estimates** [MP01b, OV00, HS03b, PG04]. **Estimating** [KS02a, KFIG06, RS09b]. **Estimation** [BCEG07, OV00, OP02, RMV03, VD00, BS03b, CFS09, DLD⁺06, Dwi08, HMA05, IKL⁺08, KK09, LJSM08, Ler06, MDJS07, Ngu07, PM08, Sti05, TPVG06, Zad08, vdDA06]. **Estimator** [TS01, LZ07]. **estimators** [SVH⁺06]. **ethylene** [GIA⁺07, GIA⁺08]. **Eu** [Myo01]. **Euler** [TR07, AEP04, AI09, Asl04b, AG08, BZW01, Car02, CS07a, CR09, CDV07, DDK06, DMG00, DDSV09, Del03a, DOW08, GB08a, GR04, Han01, HH02a, Hu01, Hu05, HLL08, HK01, IX07, IR09, JR07, JK00, KL04, KQW03a, KQW03b, Lee05, LFS07, LW07, LCS09, LBL06b, MC00a, MOG09, MG02, MSB07b, Nat06, NOG08a, PvdV08, Pop03, PGN08, RC09a, Rah04, RBH03, RS06a, SFDL07, ST03a, TL06, TW05, VSW06, WM07, WM09, WKB07, WZ03, ZYC02]. **Eulerian** [AEP04, ALGM01, AV02, AHMS03, BALW06, BS00c, BR09b, CW03, DVHM05, Fed02, FLM08, FKK08, GT09b, GXW07, Her05, HG03, HPZ01, HH06, JX07, KMSH08, KMS02, LMV04, LL03b, LQ09, LHZW05, LY04, LS05b, MC01, MC02, MCN03, OF02, OCK⁺02, QL04, RB05, RWWS07, SM09a, SCW⁺09, SFW00, UTBV03, YA05, YFBH07]. **Eulerian-Grid-Based** [AV02]. **Eulerian/Lagrangian** [GXW07]. **Evaluating** [GHG01, RS09b]. **Evaluation** [GST02, Hau08a, Hau08b, KMJ01, LWEM00, MT04, PC02, RMG⁺09, Saf02, ABZ⁺08, BHS09, BO04, CRAG07, DMBS05, FT06, HO08b, KR09c, Lau04, Mar06, MG07a, PC08, VOD08, VB08, VS07, WG08]. **Evanescent** [BV00, BPO07]. **evaporating** [AJ09, SW08a]. **Evaporation** [HW08, LMS05, SS06b]. **even** [CTS07, RVM07]. **Event** [DGA08, ML04, OK06b, NZ07, Pau07, PA07a, ZZ09, VS09]. **Event-Driven** [DGA08, ML04, OK06b, ZZ09, VS09]. **Event-Driven/Time-Driven** [VS09]. **events** [MS08b]. **Evidence** [SS05c, BBCT09]. **Evolution** [ATV01, AGH00, DC01, JWSC00, JW02, LLN00, LMSW02, Nie01, Set01, SR00b, AKLMP09, AINR03, BGN07, Bey09, COQ06, CS08b, CP04b, CP05, DDD05, EN06, FM06, GFG09, JW03, KT05, KLM05, KN04, LZ09a, LMNK07, Ols09, RRV06, RSS09, SR09b, VWW04, Wan04a, ZZ09]. **evolutionary** [DGRS08]. **Evolving** [CBL01, ML05, BGN08, EE08]. **EVP** [Hun01]. **Ewald** [CWJ07, OJW06]. **Exact** [BDRT09, BTT08, CGP02, EZ08b, Fou06, LBD02, NN04, Ten03, UH01, VS02, Zhe06, BCZ04, BDCG03, DP07, Lau06, RS09b, Wag05, Wal03, XS05a, vZS07]. **Exactly** [NTYT01, NTYT02, FS09]. **Example** [PL01]. **examples** [Ram06]. **exceeding** [KWD07]. **exceptional** [LC06b]. **Exchange** [RH01b]. **exchanges** [PFSL07]. **excitation** [FK09b]. **excitation-adaptive** [FK09b].

Excited [FV01, BCL06, CGL06, Fra04]. **excluded** [LGP09]. **execution** [BDS07]. **exercise** [Kou07]. **ExGA** [MLSD07]. **expanding** [HDBW05, PK07]. **Expansion** [ADK02, Goe00, SSD00, VP00, AV03, BO05, GMH06, KYLB07, NCS03, PW07, Tak06, TPV07]. **expansion-** [NCS03].
Expansions [CL02, BRB03, FT05, GG09a, HLRZ06, LKNG04, SH07b, Tyg08, VS07, ZL04].
experience [BPS03]. **experiment** [OB06]. **experimental** [DGF09, NDG05, ZGSD06]. **experiments** [FHJK09, SSW⁺07, XSG08].
Explicit [DZ09a, GSD01, HK06, HJL09, KM06, KM07b, Kuz09, MLSD07, PH09, QM03, RB02, VG01, VCTS02, XCZ02, YP01, AHNS09, BBMB07, BB04b, BB07b, CSL08, DR06, FDD09a, FG07, GL09b, HR08, Jia07, JL04b, KCGH07, Lar07, Löh04, LGM08, MGS09, OK07a, PH06, PH08, Sha05, zS06, TDGP06, WG08, XJ07, ZSP08]. **Explicit-Implicit** [RB02, DR06, HR08].
explicit/implicit [TDGP06]. **Exploring** [Lou00]. **explosion** [WK04].
explosions [KS08a]. **Exponential** [CM02, BIS07, Kry04, Liv07, Sti05, TWYC06, TD07, Tok06b]. **expressed** [NG06a]. **expression** [Sha05]. **expressions** [OLA08]. **Extended** [BMS00, Vay01, FHLK05, GR07, HSZ04, KFH⁺04, KFIG06, KKL08, Nas08, WLKW07, ZGT06]. **Extending** [CDJ07, DC07, WS04]. **Extension** [Boy02a, FM08, LVW06b, NBLQ09, Pop00, SBGK00, SWL06, WL06, CB03, MBS03, WZL04, WL02]. **extensional** [AH08]. **Extensions** [HMOG08, HR07]. **Exterior** [MM01, ABK09, Bor07, MG07a]. **External** [FGOV00, HAS05, HHC08]. **Extracting** [WC08]. **extraction** [Hum05].
Extrapolation [TK00, Asl04a, CHL09, GS03a, RB06, WZ09]. **extrema** [CS08c, RGK07]. **extrema-preserving** [RGK07]. **extremal** [GB08b, Ham07]. **Extreme** [VSMW01, CS05, FGS09, MS08b, SK08a].
extremely [TAL09]. **Extrinsic** [KYLB07].
F [LM03a]. **Faber** [BS06a]. **Face** [Jia07, SS09b]. **facing** [RFVP09]. **factor** [Kro05, NWZL08]. **Factored** [Boy02b, FLZ09]. **factors** [RMV03]. **Failure** [TWS02, EV03, PW07]. **falling** [GMD03]. **Families** [Tol08, Nic09]. **family** [BB04b, Boy03, CGSR08, EZ08a, FDD09b, MLSD07, RC09a, SK06, ZYHS07].
Far [BBW06, Fre00, HSK00, MP01b, HKS09, SCN07]. **Far-Field** [Fre00, HSK00, MP01b, BBW06, HKS09, SCN07]. **fashion** [kM07a]. **Fast** [AS05a, BKM09, BD01, BO04, BK01, CY00, CdHST08, Dar00b, DFT01, EN06, FLZ09, GD06b, GD08, HAAO00, HHCL01, HKG08, Hoh06, KKD08, LDN04, LJSM08, LG07, LBS⁺04, LQX06, LWEM00, LCCG05, MTV08, Mac01, Mar06, MS01, NL08, PRT00, SHWW00, SDM04, Set01, SSC00, Str00, Str01a, TB09, Tyg08, VS07, WJV07, WA02, YC06a, ZS01, AL06, AB05a, Bar04, Bia03, BYZ04, BPO07, BOK⁺06, CDJ07, COQ06, CR05, CHL06b, CCG⁺06, CJK⁺03, CWD08, CFR08, Dar02, DH04, DC07, EHD08, FD09a, GvH06, GG09a, GKD09, GV06, GH02, HSC09, HB05b, KOQ08, KP04, KP05, LT05, LGKP07, LSZZ08, LC03, LCM07, MR05, MR07a, MR06b, NI03, OLLL03, PSH⁺08, RVVL09, SS09a, SWG08, ST06, SH07b, SP05a, SMP09,

SK04b, Tau07, Thö04, TC09b, TG08, VOD08, VBJ08a, VBJ08b]. **fast** [VB08, WK06, YBS06, YBZ04, Yin06, ZT07a, ZKL⁺07]. **Faster** [Hel09a, BPO07]. **faulting** [BIW04]. **FCT** [BHS09, Kuz09, LOK05]. **FD** [SL07a, Yu05b]. **FDFD** [CBB01]. **FDTD** [Bet08, CFJ06, DS05b, FK09b, POS00, Rem06, RK07, Vay01, Wel07, WC07, XCZ02, ZSW07, ZW04, ZT07b]. **FDTD-compatible** [RK07]. **FDTD-methods** [ZSW07]. **FE** [AT09, BFG08, MK04b]. **FE-simulation** [MK04b]. **features** [TZ06, TMD⁺08]. **Fekete** [BCEG07, BCE⁺09]. **Feller** [LLTA07]. **FEM** [BB07a, DHOT09, GQ00, KT04, Kuz09, LNXNTX09, MMS04, MR04, NZ05, YM07]. **FEM-multigrid** [DHOT09]. **FEM-simulation** [MR04]. **FENE** [LC03]. **Fermion** [BTFY01]. **fermions** [Bor03]. **ferromagnetic** [GCW07]. **FETD** [CL07b]. **FETI** [LJ09a]. **Few** [GHV00, HKS09]. **Few-Cycle** [GHV00]. **Fewer** [TRL01]. **Fey** [Noe00]. **Feynman** [BLL03, HvHHS05, PWW00, SS01b]. **FFT** [CXB08, DBF08, LG05, PKvdB00, YAvdB⁺08]. **FFT-based** [CXB08]. **FHNC** [Hof04]. **fiber** [TG06]. **Fibers** [BV00, TS04]. **Fictitious** [BCM09, GPH⁺01, WT07a, BG05a, DGMN03, RAB07, SPT05, VMN07, YSW06, YS07b, ZW06, PP09]. **fictitious-domain** [ZW06]. **fidelity** [NT07].

Field [BISS01, Fre00, FGOV00, FV01, GW02, GKL00, HSK00, MR02, MP01b, OMG02, ST01, SSW01, AINR03, BCB03, Bae03, BCDW06, BBW06, BEA09, BJP04, CFM09, Cha09, CW08, CEL06, DDSV09, DLW04, FYH⁺06, GFG09, HW08, HvHHS05, HKS09, HF08a, HX05, HWWL09, JOS06, KKS07, LCG07, LCB09, LW07, LJ07, LH05b, MZ07, MSP⁺06, NDG05, NLLE06, OK07b, PH09, RJM07, SY09a, Shi07, SG03a, SB07, SS04, SCN07, TLK07, TBT⁺09, XMT06, YFLS06, YHCD05, YZF⁺06, YZF07, ZDD09, ZSTC06, dWKL07].

field-space-based [LW07]. **Fields** [DPCV02, GG00, GC02a, KMHR00, LWEM00, MN02, POS00, AV03, Bal09, DGF09, DC07, DS05b, FCJ08a, GFG09, KB04, OLLL03, SR09a, ST06, TET09, TXCD07, VOD08, VS07, XDC09, ZSW03, ZW05]. **Fierz** [MBM01]. **fifth** [GR04, HAP06, SM04, Tol07]. **fifth-order** [GR04, SM04]. **Figures** [DSS00]. **Filament** [ZP02]. **filamentary** [PSCB08]. **Filamentation** [DGH02]. **filaments** [HSS07]. **filling** [GS03b, Vol04a]. **Film** [CMK⁺01, DK02a, ZP02, GMD03, HKM08, MO06, NTB07, SA06, SRX07]. **films** [AIR03, ES03a, RRV06]. **Filter** [CKGL02, PX02, PR01b, TR02a, HO03, IKL⁺08, KFH⁺04, KFIG06, KSJ03, KDC05, LX09, RMSB09, WC08, YS07a]. **Filter-Based** [PX02]. **Filter-Diagonalization** [TR02a, WC08]. **filtered** [MP07b, ZSTC06]. **Filtering** [FBFF00, VCT07, BS03b, BB07b, BdCB09, CHM08, CKG04, ES03b, HM08, HV03, KCH06, Wea09]. **Filters** [AA02, GSD01, MVM02, ZW03]. **FIND** [LAKD08]. **Finding** [FGOV00, FV01, LY07b]. **Fine** [KM02]. **FINESSE** [BBG⁺02]. **fingering** [LLL07]. **Finite** [AC00, ACY00, AE03, AKLMP09, BR09a, BC02a, BHL⁺04, BS00b, BMR01, BM01b, BT02, BW01, BS00d, Bla00, BP03, CL00a, CS01a, CP00, CHR01, CBB01, CGSS00, Cod01, DPCV02, DBB06, DF00b, DET08,

Dur00, FVOMY00, FHW07, FK06, FK07b, FK02, GHV00, GW01, Gro06,
 Gro07, GH08b, GV07, GLT07, HLS02b, Han00, HH02a, Her00, IK07, JL02,
 JM00, KC00, KKC01, KT02, KMJ01, LLH02, LW06, LM01, LTZ02, LM03a,
 LX07a, LMSW02, MPP01, MP01a, MP02, MF01, ML01a, MST06, Nic00,
 Nik06, NC01, OGV02, OMK09, PR01a, PL09b, PKP01, PS04, PK00, PSG05,
 POS00, PL07, QP03, Rem00, SBGK00, ST01, SC09a, Sou09, Stu01, TK00,
 TJ09, TT04, Tol02a, Tol02b, Tow09b, VCP00, Vas00, VCTS02, VG02,
 WPW02, Wan02, WL02, Whi00, WA02]. **Finite**
 [WB09b, YP01, ZZ01, ZH01, ZRR00, vdVvdV02, APTJ⁺04, APP⁺07, AH08,
 Ain04, AMR06, AK07, AG09, AT05a, AT08, AKO09, BAYZ08, BS04a,
 BMN05, BGN07, BGN08, BG07, BGM08, BAFL09, BES07, BBvdV06, Boe05,
 BT06, BT07a, BT07b, BHvdV06, BKLL04, Boy06, BLM04, BEG03, BJP04,
 CT09, CHH06, CCG08, CLG07, CHL09, CdHST08, CL03a, CN05, CX08,
 CXZ09, CS07b, CS08b, CEH09, CYS06, CJ04, CS06, CS07d, CSKD05, CR09,
 CQRW05, CSML06, CGC⁺09, CHPR09, CZVS04, CFP08, Cui09, CH08,
 DSM09a, DSM09b, De 04, DR06, DBBP08, DW09, DGMN03, DS06a, DF04,
 DK07, DKTT07, DBTM08, Dur08, Dwi08, Edw06, EZ08a, EGHE06, EE08,
 ÉGP09, FP08a, FDD09a, FDD09b, FWR07, FMR09, GPC07, GLM07, GR07,
 GLLN09, GL09b, GL08, HPS06a, HBHJ08, HJ09, HZGB04]. **finite**
 [HZGB05, HPD09, HLO08, Her09, Hew03, HMMO05, HY09, HY11,
 HWWL09, IX07, IX09, IM05, IDD04, IQ08, JD09, Jar04, JBF07, JLT03,
 JLT06, JL09, JZ08, JLL⁺06, JAK05, JM05, Jon05, Jor07, KW06, KTD03,
 Kim07, KPB08, KKL08, Kok09, KR09b, KPP07, KPP09, Kum04a, Kuz06,
 KSS09, LSB04, LFSS07, LZ07, LVL05, LJSM08, LZT09, LCW04, LL06a,
 LLZ07, LYC09, LSS⁺09, LMS04, LSS06, LSSV07, LSV09, LVW06b, LLTA07,
 LM08c, LNXNTX09, LS09, Liu09c, LY04, LJ07, LMNK07, LJ06, LZH⁺07,
 MY06a, MZ08, MK08a, Mac07, Mad05, MWM03, Mad06, Mai04, MLSD07,
 MP07a, MR06a, MGCR07, MB04, MN04, MN06, MN17, MSJ07, MZ07,
 MGS07, MSP⁺06, MGC06, MCN03, MCP03, MR07c, MDM03, MVO04,
 MT07b, MK07, NV09, NOG08b, NBLQ09, NLLE06, NPPN06, NXS07,
 OK06a, OSK09, OVG07, PAD07]. **finite**
 [PP09, PH06, PH08, PvdV08, PS08, Pir07, PR03, PR04b, Pon06, PR06,
 RB06, RJ06, RBvdV08, RRW05, Rom07, Ros09, RJ04, SROCdPFF05,
 SKS08, SJD05, SHA08, SHWC07, STD⁺05, SMS04, SYG06, SS06a, SS05a,
 SL07b, SZ05, STZ07, SMAj08, SS03b, SS05c, SGG⁺04, SB03, SC09b, SWL06,
 SR09b, SCN07, SN08, TVMR03, Tan08, TMND07, TD07, TdAAP08, Tor03,
 TA06, Tow08, Tow09a, TAL09, VPMC04, VW02, VSW04, VSW06, VZSL07,
 WZL04, WTL08, WLT08, WZL09a, WZL09b, WZ07, WA08, WHS08, WF06,
 XS05a, XS06, XCRX08, XS05c, XLP05, YMW06, YS07c, YS08, YZF⁺06,
 Yus06, YH07b, ZGT06, ZZ07, ZFM08, ZH09, ZHSS09, dSHHM05, dVGLM09,
 dFJS09, vDZ06, vDBG09, Lab09]. **finite-band** [Dur08]. **Finite-Difference**
 [AC00, ACY00, CBB01, FVOMY00, GHV00, MF01, Nic00, Rem00, VCP00,
 VCTS02, VG02, WA02, GH08b, IK07, Nik06, BG07, CdHST08, CYS06,
 HWWL09, JAK05, KPP07, KPP09, LS09, MSP⁺06, PAD07, PH06, Pir07,

RB06, SROCdPFF05, SHWC07, SS05a, VPMC04, YMWM06, ZH09, dSHHM05]. **Finite-Difference-Diffusion-Monte-Carlo** [PK00]. **finite-differences** [Kum04a]. **Finite-Element** [BW01, CHR01, MPP01, LW06, CQRW05, DR06, HPS06a, HPD09, LJ07, SS06a]. **finite-element/finite-volume** [SS06a]. **finite-energy** [Mai04]. **finite-frequency** [TMND07]. **Finite-Volume** [BM01b, CL00a, DPCV02, KKC01, ML01a, OGV02, PS04, PL07, TT04, Edw06, EZ08a, HBHJ08, HJ09, JLT03, JLT06, JL09, Kok09, LZT09, LJ06, MSJ07, MGS07, RJ06, Ros09, SS06a, SL07b, SC09b, XCRX08, ZH04]. **FINT** [LJSM08]. **First** [Ano05s, Boy02a, CR09, FV01, HH07b, HMMR04, BEE06, BCL06, CkM07, Gro06, Gro07, Gui03, IM07, Jar04, NPH09, Nis07, YZW05]. **First-** [CR09, YZW05]. **first-derivative** [Jar04]. **First-order** [HH07b, HMMR04, IM07, NPH09, Nis07]. **fit** [AMSZ07, Mil05, Mil06, Mil07]. **fitted** [PS08, SS03a, YP06, ZKDT07]. **Fitting** [CVE06, Che04, Sur05, TWYC06]. **Five** [ACK02, MG05b, QA09]. **Five-Equation** [ACK02, QA09]. **fix** [Asl04b, HK04c, Ser09]. **Fixed** [RMO00, YSC01, AFGM07, BL09a, BBHM09, CHCOB09, DMHP07, Mad06, MS08a, MLS⁺05, TZ06, TLK09, ZFM08, dFJS09]. **fixed-domain** [TZ06]. **Fixed-Grid** [YSC01]. **fixed-mesh** [CHCOB09, ZFM08]. **fixed/moving** [TLK09]. **Flame** [CAL00, NFK01, BDR⁺04, BDGL05, LLC06, MR04]. **flames** [MR04]. **Flapping** [ZP02]. **FLAPW** [YMF01]. **Flexible** [ZP02, Alb09, EKBL09, HSS07, Hum05, LKP06, Mad05, TS04, Tsu06, XYK05]. **flexible-body** [Yu05b]. **flexible-cycle** [XYK05]. **flexible-order** [EKBL09]. **flight** [Liu09a]. **flights** [Pav07]. **flip** [ABRR09a, ABRR09b]. **floating** [YM07]. **Floquet** [DK06, TB00a]. **Flow** [APQ02, BBG⁺02, BW01, BCVK02, CFA01, CS00, ČPT01, CGSS00, CR02, CL02, DIV00, EF02, FVOMY00, FGG01, GPH⁺01, Goe00, HLS02b, Han01, HGM⁺00, JML⁺01, JL02, KC00, KKC01, KLvBvL02, LLH02, LS02b, LKNG01, LRN⁺02, LK01, Mac01, MN02, MK02b, MC01, MD01, Pai01, PR00, PG02a, PS01, PW00b, PW01, Poz01a, PO01, SBGK00, SS02, SJ02, Shy01, Sie00, Sum00, TC01b, TBE⁺01, VD00, Xu01a, Xu02a, ZTZ02, dSAK00, vBRK01, AM03, APTJ⁺04, AH08, AK06a, ART04, Alb08, AK05, AW04, AMP09, AT05b, BSKH07, BKST09, BS08b, BF08, Bil05, BF07, BB04b, BSLN09, BLM03, BLM04, BTW03, BP08, BP04a, BIVC07, BGN03, BK07, BB09c, CLB08, CFF07, CRAG07, CR05, CFM09, CS05, CL07a, CL08b, CT08b, CMP07, CHBS04, CHPR09, CBS05, CZVS04]. **flow** [CGM07, DMHP07, DS05a, DHOT09, DM03, DDK06, DT04, DVHM05, DP07, DP08, DKS⁺03, Dim07, DS06b, DF04, DND06, DCK08, EGHE06, ECL02, ELD08b, ÉGP09, ES03b, FRS08, FS04, FK09a, FT06, FK07a, FL06, FCT07, GZ09, GMD03, GH09, GGF03, GS03b, GGP06, GC06, GGCC09, GD07a, HJ09, HL04, HP04a, HS03a, HS06, Her08, HN03, HY09, HY11, Hu05, HAI09, HT03, HLX06, Hua07, HSS07, HLY09, HH06, ID04, IK07, JLT03, JD04, JLT06, JOS06, JX07, JC06b, JP03, JS05, Kel05, KC06, KDF07, KAS06, Kok09, KSGF09, KT07, LTZ03, LFX05, LK09, LJW09, LKX04, LX07b, LY04, LR03, Löh04, LM03b, LSW06, LJ06, LMZ⁺08, MC04, MTV08,

MPD03, Mac03, MT07a, MJT06, MSJ07, MP05, ME09, MT03, MCN03, MSB07a, MVO04, MDS03, Mou04, MDR07]. **flow** [MGNB09, MG05b, NL08, NBLQ09, NJX08b, NJX09, OK05, OKZ07, PPD08, PP09, PS05, PWM06, PA07b, QLK07, QLS09, RC06, RFVP09, RM07, RW03, SM09a, SWG08, SGFL09, SWK06, SMS08, SLF08, SE04, SZS03, Shi07, SLC07, Shy04, Shy06, SS05c, SCRL08, SWL06, SRX07, TZ03, TOZP03, TM05, TBJ⁺09, TT06c, TCM05, TDV06, TF03, TJLT08, VC03, VLB09, VV03, VQLZ04, WSYS09, WFC09, WGNT06, Xia04, XK03, XH03, XMT05, Xu08, XHC08, YP06, YTT05, YC06a, YC06b, YXLF05, YKK08, YF09, YE05, Zad08, ZSWW03, ZL04, ZKY05, ZWS06, ZVQ07, ZJ09, ZKS⁺09, ZFM08, ZLAC05, ZL08b, ZD08, vOP04, vdV08]. **flow-body** [Alb08]. **flow-induced** [SCRL08]. **flow-polymer** [CFM09]. **flow-structure** [LMZ⁺08, ZFM08]. **flow/structure** [AK06a]. **flowfield** [KK05b]. **Flowing** [ZP02, CGL08]. **Flows** [BSJ01, BM01b, BMQS02, BL01, Bon00, CKR00, CKR01, CPK02, Cle00, Cod01, Cor00, CMOV02, DCV⁺01, DK02a, DF00a, DLS⁺00, EAY01, FS01, FG02, GSD01, GS02, GHG01, GW01, GM01b, GQ00, Hor02, JLCD01, JPMC01, KKR01a, KKR01b, LX00, LS00, MSYL00, MPC01, MPC02, Nie00, Nie01, PWS⁺02, PSN00, QV01, RH01b, Ros00, Sai02, SML02, SBGK00, SSD00, Sni01, Sun00, SB02, SP00, TSB01, TCM⁺00, UMRK01, VD02, VLKM02, VC00, WPM02a, WK01a, WPW02, WLE⁺00, WW00, WZ00, Xu01b, Yua02, vdVvdV02, APP⁺07, AK09, Ano04z, AMP09, AB05b, AMS03, BFB08, BHS09, BM06, BDHN09, BGM08, BALW06, BH09, BS04c, BCM09, BPL06, BKLL04, BN09, BCI⁺08, BHSV07, BB08b, CPR05, CCG08, CGL08, CET09, CGRGV⁺04, CFL⁺03, CHB09, Che03, CGH05, CJ09, CYS06, CZ09, COER07, CDE06]. **flows** [CJR04, CHCOB09, CL03b, CMR08, CP04c, DSM09a, DBBP08, DFV08, DP09, DGMN03, DS06a, DSS07, DS09a, DDS09, DGJ03, DHM07, DBS06, FP08a, FPK08, FM05, FD03, FPT05, FL07, FD09b, FGP08, Fox08, GV08, GT09b, GXW07, GBC06, GLL03, GMD07, GSB03, GS05c, GMAj09, GS03c, Gra06a, Gra06b, Gre04, GMO04, GMS06, GAC⁺09, GKV09, GR07, GS03d, GS09c, GLLX08, HW08, HSQ03, HAS05, HPD09, Hel05, HS08a, Her08, HM05, HVAC09, HK04c, HKAH06, HA06, HT03, HO03, IOTK04, JD09, JL04a, Jao07, JX06, JLL⁺06, KSO⁺05, KR09a, KHdT⁺08, KIH09, KIH09, KM06, KM07b, KK05c, KK05d, KPB08, KAA⁺07, Kro01, Kro02, LTH08, LL09, LG09, LSL08, LKP06, LK07, LL05, LP06a, LZ04, LS07, Li08a, LZ09c, LLS09, LL06a, LF05, LMS08, LW04, LKO05, LV07, LCNR07, LTC07]. **flows** [LM08c, LKMK09, LDV08, LD09b, LHGF05, LF04, LC03, LB03b, LBL04, LBL06a, LBL08, LMK09, LZH⁺06, MM09, Mai09b, Mai09a, MLM09, MEKS03, MKOW04, MR06a, MM03, Mar09, MB04, MY07, MJ09b, MDB⁺08, MLS⁺05, MK06, MT08, MAL09, Myo04, NSC09, NOG08b, Neo07, NMG09, NMM⁺07, NMH⁺07, NJX08a, NCS03, NPPN06, NS05, NT07, Nov04, OF06, OTCM08, OVG07, OCF08, PKD07, PDHP07, PPD08, PSCQ03, PSC⁺06, PN03, PH08, PFSL07, PK07, Pon09, Pon06, Pon07a, Pon07b, Pop09, Pro05, Pro07, PS03b, PS07d, QA09, QS07, QP03, QM03, RB05, RMB07, RVM07, RVDM09,

RWMK03, RJ06, RBS06, RMG⁺09, RF06, RMF08, Ros03, Ros07, RFVP09, SDGX07, SNGAS04, SROCF03, SROCDPFF05, SC08a, SFDL07, SPB09, SAK05, SSB07, SE09, SS07a, SD05a, SD05b, SP05a, SFX03, SMS04, SY09a]. **flows** [SZC09, SS06a, SYC09, SSND03, SKXK05, SY03, Spe05, SK07a, SP06a, SZH07, SC09b, SFMP06, SBC04, SSH⁺07, SK03, TZL05, TLK07, TLL⁺08, TLK09, TJS03, TB06, TMB07, TSG⁺06, TT09, TMD⁺08, TC09a, TdAAP08, TW07, TS04, TS08, Uhl05, Utn08, VCT07, VCT09, VVS08, VMN07, VGBZ09, VD03, Vik03, VBL03, Vol04b, WT07a, WAO⁺04, WWC07, WB09a, WSI08, WWK05, Xia04, XAI06, XMP07, XP04b, XLP05, XLLZ06, YZ07, YB06, YXLF05, YSW06, YS07b, ZGG03, ZR08, ZXQX08, ZZVM08, ZL09, ZSC06, ZSC08, ZHSS09, ZW03, dSMN⁺04, dTDI⁺07, vBK03]. **fluctuating** [SP04]. **fluctuation** [Asl04b, DPRN05, Ham07, Hub08, KIH09, RDPN07]. **Fluctuations** [DDG02, LS02a]. **Fluid** [AMSZ03, BNV08, Bar02b, BW01, ČPT01, CYKC01, ELW01, Fed02, Goe00, HK00, HLS06, Har04, HF00, HPZ01, IYI⁺02, KfV⁺05, KLvBvL02, LKNG01, LRN⁺02, Man02, MC02, MD01, RRL01, RR02, Shy01, Str01b, SP00, TC02, WLE⁺00, WW00, ZSP02, AS09, APT09, ADR08, AKP07, AMS03, BQQ09, BALW06, BL08, Bod06, BGS08, BG05b, CGL08, CR05, CCV03, CN05, CZ09, CC08b, CHPR09, CBS05, CDV05, CDV07, CDL04, CDL05, DMR09, DDM07, DMP08, DFV08, Eld07, Eld08a, EF03, FRS08, FDD07, FGS09, FM04, FJ09, FLM08, FKK08, Gla05, GA09, GCCD07, Gre04, GAC⁺09, GH08b, GGCC09, Hel05, HC09, HMMR04, HLRZ06, HG03, HAI09, IAT08, JJGL06, JJGL07, JL04a, JBF07, KG09, KSHS08, KG08, KJ09b, KDF07, KYK07, Lap03, LMV04, LWP⁺09, LS07, LLS09, LKY03]. **fluid** [LKX04, LKW05, LMH07, LHGF04, LHGF05, LH08a, LZH⁺07, MC04, Mai09b, Mai09a, MMS04, MPD08, MY03, MMPB07, NMG09, Pap08, PP09, PSC⁺06, PP04, PK07, QA09, RSW06, RFFP06, RM07, SJ04, SPT05, SL07a, SL03, Shy04, SM06b, SG03a, Sus03, TT09, TPV07, TGB⁺07, TDV06, TG04, VGZB09, Vik03, WTL08, WWK05, XW06, Yam05, YJL⁺06, Yu05b, YZL⁺06, ZKS⁺09, ZSC08, ZTPM05, dSMN⁺04, vBK03, vLAvdV06, vZdBB07]. **fluid-body** [Eld08a]. **fluid-dynamic** [Lap03]. **fluid-dynamics** [MPD08]. **fluid-elastic** [HMMR04]. **fluid-land** [KJ09b]. **fluid-membrane** [LWP⁺09]. **Fluid-Mixture** [Shy01, Shy04]. **fluid-particle** [DFV08]. **fluid-particles** [FM04]. **fluid-poroelastic** [BQQ09]. **fluid-saturated** [GH08b]. **fluid-soil-structure** [SM06b]. **Fluid-Solid** [HPZ01, Man02, CCV03, JJGL06, JJGL07, MMS04, NMG09, Vik03]. **Fluid-structure** [BNV08, AKP07, GA09, GGCC09, HC09, KYK07, LZH⁺07, Pap08, SPT05, SL07a, vLAvdV06, vZdBB07]. **fluid/flexible** [Yu05b]. **fluid/flexible-body** [Yu05b]. **fluidics** [RE05]. **fluidized** [Sar03]. **Fluids** [ACK02, CL01a, FS00a, FS00b, HLS01, PR00, BL09b, BL08, FCT07, HHC08, ICO04, KM08b, KKL04, PvdV08, RE05, Ren07, SPB09, SF03, SCW⁺09, VBL03, VBL04, XLM07, YZF⁺06]. **Fluorescence** [FEL⁺05, FLE03]. **Flux** [Bet08, Edw00, EF02, HGN00, KP00, KT02, Lio00, Ros00, Sti02, AKLMP09,

BCDR06, CWYM08, CJ09, DQ04, Edw06, EZ08a, EF03, HS09a, IR09, JTL09, KK05b, KLLJ09, KT04, Kuz06, Kuz09, LSD07, MEKS03, MM03, MY07, Ols07, OK06c, QW05, QA09, RC09a, RBT03, SJD05, SMAj08, Sof09, ST03a, Tok06a, TAL09, VCZS04, XS05c, YHSX07]. **flux-conservative** [OK06c]. **flux-limited** [Ols07]. **flux-split** [MM03]. **Flux-Splitting** [EF02, Ros00, EF03, MEKS03, QW05]. **Flux-Tube** [KP00]. **flux-vector** [DQ04, QA09, SJD05]. **Fluxes** [DLS⁺00, Bil05, BB07b, GLM07, QKS06, TT06b]. **FMM** [ON08]. **foam** [VCG03]. **foaming** [YFBH07]. **Fock** [FHLK05]. **Fokker** [DDFT09, KB04, WO05, WO09, BC02b, CBKM00a, CBKM00b, Den07, DWLM09, FP02, Lem00, LC03, PRT00, UL06, XCRX08]. **Following** [Abg01, Ano08-50, SM09b, WS04]. **Force** [Deh02, LKMK09, LM03b, Tót02, AKO09, BBF⁺08, Car09, CB07, DM03, FCD⁺06, Her08, HS08c, KKD08, Kim05, LC06b, LH05b, MZ07, SHP07, TLAD04, VQLZ04, ZVQ07, THD09]. **Force-coupling** [LKMK09, LM03b, DM03]. **force-displacement** [VQLZ04, ZVQ07]. **force-driven** [VQLZ04]. **force/work** [LC06b]. **forced** [HLRZ06]. **Forces** [BCE⁺09, FPC⁺00, LL01b, PSN00, SZ01, BYZ04, HHC08, Ni09]. **forcing** [AWK07, BZ09, Dom08, FM05, PPB09, Uhl05, YS07b, ZZ07]. **forecasting** [Ano08-50, Jan08, LP08, SM09b, SK08b]. **Form** [Han01, PKvdB00, IAT08, LY07a, LMN⁺09, LB04, MESV09, PHW08, RK07, SH07b]. **Formal** [LP00]. **Formally** [Boy02b, CLMRP08, GHMP07]. **Formation** [DC02, HKV01, Nit01, BEA09, CLL07a, CGN⁺07, GPL05, GH08b, KW08b, YFLS06]. **formations** [LZT09]. **forms** [MAN⁺06, Tak06]. **Formula** [AGH00]. **Formulae** [FF02, YMF01]. **Formulas** [GM01c, TR02b, WF06]. **Formulation** [Ano08-50, BRL02, BMQS02, BS04c, CRD02, DC01, Hua01a, HMK02, KB01, LLIK01a, LKNG01, MF00, SM09b, TRL01, VQSZ02, Wan02, vdVvdV02, AAC07, AKH06, BBC⁺06, BACFT05, Boe05, BRP05, BW07, BP04b, BMDS05, BSP06, CQRW05, CFR08, DMBS05, DB04, DBS06, Gla05, Gra06a, GAC⁺09, Gui03, GD07b, GK05, HLMM07, HO03, HMM07, IX07, IX09, IDD04, Kim05, LSB04, LSJA05, LVW06a, LY04, LC06b, LBL04, Mad05, MP07b, NMS07, Pap08, PL09b, Pon09, PR03, PR04b, Pon06, Pon07b, PR06, SM09a, SRM09, SKS08, SS06a, SMP09, SP05b, SS05b, VMN07, VQLZ04, WG09, Xia04, XAI06, XJ07, XLP05, YB06, YAvdB⁺08, ZVQ07, dSMF09, LLIK01b]. **Formulations** [IK01, WK01b, Dem04, FHLO08, GLT07, KG08, NV09, NZ05, SB06c, SD05a, VB09, WFC09, ZW06]. **forth** [DL03b]. **Forward** [UH01, AvdB04, LDW07, NSS03, RMGK04]. **Forward-Adjoint** [UH01]. **forward-trajectory** [NSS03]. **forward/reverse** [RMGK04]. **FOSLS** [HMMR04]. **Found** [BS00e]. **Four** [LCS02, Saf00, Saf02, BUEG06]. **Four-Center** [Saf00, Saf02]. **Four-Dimensional** [LCS02]. **Fourier** [DK06, ZGSD06, AC05, BK08, BS04c, BTSM09, Boy02a, BRB03, Boy09, BHP07, CLTA07, Che00a, Che00b, CKGL02, CKG04, Eli02, Eli03, Eli07, FBHV05, Fou06, GTD01, GLLN09, HO03, IA06a, KDK⁺07, KS09, LS03,

LDL⁺09, MLFG06, Nas08, OLL03, SSN09, SB06a, SS09a, SRNV07, SZLW06, TCN09, VB08]. **Fourier-sine** [BRB03]. **Fourier-spectral** [FBHV05]. **Fourier/finite** [GLLN09]. **Fourth** [BRL02, CVB06, GBS06, Lai02, MG07a, PKP01, XCZ02, YP01, Zha02, AV05, BC05, BGN07, CC03, CFJ09, GF05a, KKM08, LM08a, Nas08, SRX07, Hau08a]. **Fourth-Order** [BRL02, Lai02, XCZ02, YP01, Zha02, CVB06, AV05, BC05, CC03, CFJ09, KKM08, LM08a, Nas08]. **Fourth-Order-Accurate** [PKP01]. **Fractal** [WWVG00, AST07, CMP07, PC06a]. **Fraction** [Lin01, CMSZ09, Lap03]. **Fractional** [BE02, CGP02, Cod01, LOK01, VSG05, CLTA07, Cui09, Den07, Dom08, GSV06, HVAC09, LH05a, LDW07, LX07a, LP07b, LCdCN⁺03, MST06, PC08, PCS⁺09, Sou09, TMS06, TM07, Yus06]. **Fractional-Step** [BE02, LOK01, GSV06]. **Fractions** [SZ00]. **fracture** [LMH07, PKKL05]. **fractures** [TM05]. **Fragmentation** [Hew03]. **frame** [DDGS09, YGL05]. **frames** [AKH06, HHM04, KH07, PK07]. **Framework** [OCK⁺02, STiST02, Abr06, AJ09, AKO09, BG09, DBTM08, FLM08, FCD⁺06, FMD⁺09, GZ09, HMA05, Kou09, PHKF06, PBH04, SPT05, TCO⁺04, TJLT08, VP09a, ZG08]. **Free** [Bal01, CBKM00b, DF00a, FCGK05, FG02, GHG01, HB02, OF02, SDD07, SCD00, TCM⁺00, WSI08, ZTZ02, vBRK01, AMS03, Bal09, BRDM09, BS04b, BKM09, BPL06, BGN03, CPR05, COQ06, CS05, Cha07a, Che03, CEH09, CZ09, CLS04, DS05a, DQA08, DST07a, DKTT07, GT09b, GFR09, GS06b, GS03b, GCCD07, GAC⁺09, GS09d, HWL08, Hel05, HZ07b, Hum05, KR09a, KK04, LZ07, LMX⁺08, LRS07, LL04b, LSJA05, LG07, LSV09, LY04, LD04, LZH⁺07, MRC06, NJX09, NK08, NMS07, OTCM08, PN03, QP03, RB05, RMF08, SDGX07, SE04, SKXK05, TW07, VP09b, XMP07, YMT⁺04, YP06, YH07a, ZL09, dSMN⁺04, vZS07]. **free-boundary** [AMS03, VP09b]. **Free-Lagrange** [HB02]. **free-plasma** [Hum05]. **free-streaming** [GS06b]. **Free-Surface** [DF00a, GHG01, vBRK01, WSI08, Che03, DS05a, GFR09, GS03b, GCCD07, GS09d, PN03, RMF08, SE04, YP06, ZL09]. **free-surfaces** [Hel05]. **free/Galerkin** [SKXK05]. **Freezing** [JC02]. **frequencies** [KR09c, RMV03, WC08, OS01]. **Frequency** [CBB01, DDF01, DFT01, ERT02, GKL00, HMM02, POS00, TK02, ACR08, BL09a, BCDW06, BO09, CJSS08, CdHST08, DH04, DNS08, FLE03, JLOT05a, JY08, MBS03, MJ06, PL09a, PS07c, RKE⁺07, TET09, TMND07, WB09b]. **Frequency-Domain** [CBB01, CdHST08, FLE03]. **Fresnel** [YFS01]. **friction** [BIW04, BBF⁺08, HC08]. **frictional** [ZVQ07]. **Friedrichs** [KOQ04]. **Front** [BSJ01, GNNB08, JC02, LS08, SJ02, TNGH02, TB00b, TBE⁺01, ZH01, CB09, DFG⁺06, Fan08, HSL08, LLP07, LLGL07, kM07a, MT08, SAM05, TZ06, TT09, WKB07, ZEA06, dSMN⁺04]. **front-capturing** [CB09, dSMN⁺04]. **Front-Tracking** [JC02, TNGH02, TB00b, TBE⁺01, ZH01, Fan08, LLP07, kM07a, MT08, TZ06, TT09, dSMN⁺04]. **front-tracking/front-capturing** [dSMN⁺04]. **front-tracking/ghost-fluid** [TT09]. **Fronts** [JW02, Set01, LMS05, Vol04a]. **Frozen** [CS01c]. **FRS** [AMP09]. **fuel** [CKPW07, SXyWX09]. **Full** [Edw00, HJKO08, ZH09, EZ08a, FCJ08a, FM06, IITV07, LJW07, OX04].

full- [IITV07]. **full-Burnett** [OX04]. **Full-wave** [ZH09]. **Fully** [BN04, Bon00, BSW05, DOWB01, HLS02b, MVO04, APR09, ALT08, AMP09, CL06b, CN05, Dim07, Fan08, HHMK05, JLT06, KT04, LC06a, LRZ04, MG07b, ODCK07, RWMK03, RSW06, RJM07, RSTB03, STD⁺05, SMP09, SC09b, WAO⁺04, WDÖ⁺03, YM07]. **fully-implicit** [Dim07, WDÖ⁺03].

Function

[CHR01, GST02, hRT02, Bea08, BHNPR07, BKM09, Boy06, CWJ07, CMSZ09, CTS07, DSB06, DL03b, FP08b, GS06b, JSCZ08, Khe04, KAS06, LL04a, MP07b, MJ07, OJW06, Pee03, RRC05, RK07, SC08a, SH07a, SCT06, Sme06, TB09, Tow07, TW03, WZ07, Wen09, ZJW06, ZC09, dHRvdB07].

function-vorticity [LL04a]. **Functional**

[FS00a, FS00b, Lou00, VD00, VD02, BT03, Chr03, ET06, FHW07, GMH06,

HdGKG08, PG04, SF03, VD03]. **functionally** [ZB07]. **functionals**

[Küm04b, RSS09]. **Functions** [BS00e, CY00, GST00, Goe00, MS01, RS00,

Saf00, Saf02, AKLMP09, BZ08, CT09, CQO04, CCJ07, ETT05, FB08, FW07,

GG09b, HBHS09, HKS09, HS03b, IR09, JTL09, KMID05, KIW09, KR09c,

LM08a, LCW04, LJS08, LJW07, MLS07, MG08, MT07b, PLS⁺09, RC09a,

RA09, Tow08, Tow09a, Tow09b, WF06, YZLH09, Yin06]. **Fundamental**

[BR01, BB08a, SY09b, YJF⁺06]. **Fup** [GG09b]. **Further**

[CKG04, SVB09, CM03, Hig05]. **fusion** [Jar04]. **Future** [Ano00q, Ano00r].

FV [AT09]. **FV/FE** [AT09].

G [LM03a, VP09a]. **G-Scheme** [VP09a]. **GaAs** [GS06a]. **Gal** [WS04].

Galerkin [Ain04, AB07, AKLMP09, AQ00, APQ03, BKST09, BC01,

BCDR06, BDHN09, BRC⁺09, BS04c, BSB01, BG05b, CKLS05, CC07,

CELS07, CS07b, CS08b, CHG⁺07, CJ07, CLS04, CFP06, CR00, CHPR09,

CBS05, DD09, DLP08, DF04, DBTM08, Eg07, ES06, FCJ08a, FCJ08b,

FK07a, FOLD05, Gab07, GLM07, GLMH09, Gel06, GFR09, Gir00, GHW02,

Gir06, GR08, GLLN07, HH02a, HH08, HA02, HEML00, HO03, IK01, JH06,

KCGH07, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KWBH09, Kri07,

KLM05, KWD07, KDW08, LGHD08, LL01a, LSY04, LSJA05, LSZZ08, LS00,

LY06, LX07b, LNXNTX09, LGM08, LZC04, LMSW02, LMNK07, LBL06b,

LBL07, LBL08, Ma05, Mac07, MRC06, MY09, MESV09, MPFC08, NM06,

NL08, NPC09a, NPC09b, PvdV08, QS04, QKS06, QLK07, RH01a, RBS06,

RBvdV08, RC09b, SFE07, SMB09, SR09b, WM07]. **Galerkin**

[WM09, WG09, WKG06, XXS07, XS06, XS09, XS05b, XLS09a, YS06,

ZQSD08, ZQ09, vdVvdV02, vdVX07]. **Galerkin-free** [SKXK05].

Galerkin-like [LNXNTX09]. **GaN** [GS05a]. **Gappy** [GSK06]. **Gas**

[BZW01, CKR00, CKR01, DC02, FS01, GV02, HK00, KMA⁺01, LZ09c, LX00,

OB02, Sai02, SZS01, SPC01, SB02, TX00, Xu01b, Xu01c, Xu02b, dSAK00,

AK09, BPMR08, BS04b, BDCG03, CPR05, CELS07, CJR04, CDL04, DDK06,

DVHM05, Fox08, GS05a, GC06, HP04a, HH06, JX07, KKM08, KD09, KK05a,

KW03, LSL08, LM04, LZ04, LF06, LL07, LKW05, MEKS03, MSJ07, Myo04,

NFvS⁺06, OLA08, OK07a, RC06, Sam09, SH07a, SSB07, SE09, SFX03,

SHY07, SY08, SS09c, SHPC09, SBC04, TXCD07, TT06c, UBRT07, VVS08, WTL08, WZ03, XH03, XMT05, XHC08, YHSX07, ZXQX08, ZRS06].

Gas-Kinetic [CKR00, CKR01, LX00, TX00, Xu01b, Xu01c, Xu02b, LZ09c, JX07, LF06, MSJ07, SY08, TXCD07, XH03, XMT05, XHC08]. **gas-liquid** [DDK06, HP04a, LL07]. **gas-particle** [Fox08]. **gas-phase** [OLA08]. **gas-solid** [DVHM05, HH06, MEKS03]. **gas-water** [LKW05, WTL08]. **Gasdynamics** [Myo01, QCGQ03]. **Gaseous** [VG01]. **gases** [SM05, VS09]. **GASpAR** [RFFP06]. **Gauge** [BU02, PS07d]. **Gauge-Uzawa** [PS07d]. **Gauges** [SS01b]. **Gauss** [ABHT03, AB05a, CLS05, KK07, VB08, WK06, WGCE01, ZHSS09].

Gaussian [ADK00, ADK02, BZ09, Cam03, Chr03, FG04, HMA05, KKS07, LQ09, TET09].

Gaussians [PC02, TB09]. **Gautschi** [BHvdV06]. **GDG** [FCJ08a, FCJ08b].

Gegenbauer [Boy05b, Lur07, MLFG06]. **General** [ALT08, AG09, BLW01, CL01b, CRD02, DPCV02, Edw00, ELC02, LBD02, PW00b, PW01, AK06a, ADR08, Bar04, BRC⁺09, BP09, CDDL09, CWYM08, CEH09, DHOT09, DSJ03, ERVE09, FLB03, GCGE03, GSB03, GBS06, Her09, HR07, KA05, KPK09, KS08b, Kuz06, Lau06, LJ09a, LH08a, LGM08, Mac03, MS03, MJT06, MSO04, MY03, NN04, RAB07, RCD05, RH05, SS05a, SP06a, XDB09, Yam05, YHSX07, ZH04, vdVvdV02]. **General-Purpose** [DPCV02, Kuz06]. **generalization** [Ber06a, PS07a]. **Generalized** [BTFY01, IK01, Kro05, Lin01, LR01b, Mit00, Myo01, NL09, RMF08, SKAS01, SS00, VSV03, VQSZ02, Yon01, AS07, AK09, ABRRO9a, ABRRO9b, BSW03, BLW04, BS08a, BBvdV06, CXB08, CJSS08, CYS06, FCJ08a, FCJ08b, FRS08, GH03, JMZ04, LY07a, LS07, LX09, Myo04, PPB09, ST06, SHY07, SK04b, WFTS05, WG08, WK05, WAH09, XK03].

generalized-Laguerre [BS08a]. **generated** [EES09, FNBB⁺08, MR07b, MSB07a, SM09a, WF06]. **generating** [FE04, GZ08, HvHHS05, Nit05]. **Generation** [AJG01, CFGK05, GW06, VB00, VRM07, CGDT09, CJ04, GS09d, Hua05, Kar04, Kau03, KSJ03, LB03a, RS09b, SE09, TDWY08, ZJW06, ZJWC08].

Generator [MDJS07, Aza06, KE09, MWM03]. **Genetic** [HCG01, MK02a, RS02, KGJ05, MC03]. **Genetic/Powell** [HCG01].

Genuinely [GF02]. **Geodesic** [Gir00, TTSG01, JC06a]. **Geodesics** [MS01, YC06a]. **geomaterials** [MDM03]. **Geometric** [CK08, FGG01, Gos02, IKS01, MG07c, OCK⁺02, SK07a, BGN07, ÉGP09, JY08, KS08b, MY06b, SS09a, YW07]. **Geometrical** [dSM05, AA07, AMSZ03, CMSZ09, CQRW05, JW06, LH08a, Wen06].

geometrically [AK06a, BCZ04, GS05c]. **Geometries** [CL00a, CL01b, DDH01, KKC01, LMS02, Mie00, BWLM09, BYZ04, BS04c, CJ07, GCGE03, GN07, GBS06, GMO04, KB06, LV07, MCM04, MCGV04, MMPB07, MK06, PKD07, PC08, Pop03, RJ06, SROCdPFF05, TAL09, YXLF05, ZJWC08].

Geometry [ART02, CRB00, Lai02, LBV00, LBV01, OS01, PW00b, PW01, AMSZ07, BAFL09, BTT08, BBW06, BP04a, CGRGV⁺04, CR05, CP07,

GIA⁺08, HSZ04, Jao07, KZWHY09, LG04, ML05, ML06a, Mai09a, MS08a, ORM06, OPML07, Pro03, RB09b, SP06a, TF03, XSG08]. **geometry-aware** [ML06a]. **geometry-based** [CR05]. **geometry-compatible** [BAFL09]. **geometry-dependent** [ML05]. **Geophysical** [Bar02b, RFFP06, FD09b, PS03b]. **Geophysical-astrophysical** [RFFP06]. **Geostrophic** [FR02, MPD03, TRSK09]. **Gerris** [Pop03]. **GeSEM** [CJSS08]. **GFD** [CYS06]. **GGB** [WFTS05]. **Ghost** [Fed02, LKY03, BF08, DMP08, FRS08, LKW05, MMPB07, TF03, WTL08]. **ghost-cell** [TF03]. **ghost-fluid** [MMPB07, TT09]. **Gibbs** [Boy05b, JS07]. **Gilbert** [dSM05]. **Ginzburg** [DDG02, RSS09]. **giving** [TW05, TR07]. **GKS** [GLLX08]. **glass** [Thö04]. **Glimm** [Min07]. **glitch** [Tan05b]. **Global** [DSS00, LRMB08, RTT01, BG07, CGM07, Gel06, GD05, LJS08, MC03, NSS03, NLLE06, SMT⁺08, THN⁺07, WFTS05, WDÖ⁺03, dDEK09, ADK02]. **Globalization** [BB07a]. **Globe** [LR01b]. **Globular** [DPRS01]. **Glow** [hLA01, SS04]. **GMRES** [GKL00, NOG08a, TWS02]. **Goal** [BTWGvBW07, OV00]. **Goal-Oriented** [OV00, BTWGvBW07]. **Godunov** [AT05b, BSKH07, CJR04, CCF⁺05, FF02, GS05b, GS08, GR04, Gui02, HB02, LD04, MN09a, MP05, MC01, Min07, MC07c, PK03, SWK06, SZS01, TB06, TFD06, Xu01c, vBK03]. **Godunov-type** [AT05b, CJR04, LD04, MN09a, PK03, TB06, vBK03, Gui02]. **Good** [Vas00, ZYHS07]. **Gordon** [BY07, HJL09, HZ08, RBK09]. **GPU** [ELD08b, PVPS09, YWC07]. **graded** [HO08a, MGC06, MG06, MG07d, ZB07]. **Gradient** [JLCD01, JTB02, PKvdB00, Whi00, ZCMI01, AMLC08, CSL08, DEHL06, Fen06, JBHK08, KDF07, Küm04b, Ovt08, RSS09, RBT03, Tok06a, Tow09a, Yan09]. **gradient-dependent** [JBHK08]. **Gradients** [HGN00, Cho05, DL03b, LP06a, ML05, Pro08, SNLS03]. **Grain** [KAIN01, CP04b, ES03a, EES09, SW04a]. **Grain-Boundary** [KAIN01, CP04b]. **grained** [IM07, KMV03]. **Granular** [CB02, TNGH02, FPT05, KD09, SM05, Vol04b, VQLZ04, ZVQ07, ZD08]. **granular-flow** [VQLZ04, ZVQ07]. **granular-gas** [KD09]. **graph** [LQX06]. **graphics** [ALT08, GD08, KWBH09]. **grating** [DBB06]. **gratings** [BHS03, BS04d, BS05]. **gravitating** [BvdHKG07]. **gravitational** [DHM03, NB04, TXCD07]. **gravitationally** [GBC06]. **Gravity** [BTFY01, Cha09, DQA08, GB08a, Kas07, VBL04]. **Green** [BKM09, CY00, CWJ07, CTS07, DSB06, FDD09a, JSCZ08, KR09c, MLSD07, MRRS05, OJW06, PLS⁺09, RK07, SCT06, dHRvdB07]. **grey** [DL04, ED07, MYW07]. **Grid** [AJG01, ALGM01, AV02, BdLL01, CL00a, Cal02, CL01b, CR02, DCV⁺01, DDH01, FH00a, GG00, HH07b, HLS02a, HLKS00, KT06, KKR01b, LP02, LLQ⁺02, MCJ01, Par02, RW00, RMO00, SMP01, SY03, SMO00, TTSG01, TSG02, UMRK01, VD00, VD02, WZ00, XCZ02, Yam01, YC02, YSC01, dSAK00, vdVvdV02, AC09, Aza06, BGM08, BS04b, BCM⁺07, CL06b, CP06b, CP06c, CK08, CGKM06, CSML06, CK07, DMHP07, DCF⁺08,

DTMS06, DG09, FS04, FL03, GZ07b, Gro06, Gro07, HZGB04, HZGB05, HC09, Her08, JX06, JX07, KE06, Kau03, KZWY09, KAK03, KAS06, Lap04, LZ07, LZ09b, LZ09a, LR07, LKMU05, LQX06, LSW08, LRS09, LBL06a, MZ09, MWM03, Mad06, MKLU05, Men04, MZ07, MD06, MHE06, MV08, MK06, MO06, NMM⁺07, OK06a, PS03b, RW03, SS03a, SROCdPFF05]. **grid** [SBCL06, SMS04, SZ05, SS07b, SS05b, SP06a, ST03b, TJS03, THL06, Thu08a, TU04, VD03, WW04, YMT⁺04, YU05a, YXLF05, YSS05, ZG08, ZT03, dTDI⁺07]. **grid-alignment** [BGM08]. **grid-based** [CP06b, CP06c, MO06]. **grid-free** [BS04b]. **Grid-Optimized** [CL01b]. **gridfree** [SC08a]. **Gridless** [OC08, KL04, LBL06a]. **Grids** [BE02, Car01, DV02, DPCV02, DI02, Edw00, FGG01, GZ01, GHV00, GW01, GC02a, Gir00, HLS02b, HH01, HW02, HA02, JK00, KC00, LM01, LLdIP⁺00, SZ00, TC01b, hRT02, Wan02, WL02, ZTZ02, Aza07, Aza09, BAYZ08, BFB08, BSKH07, BHS09, BMT09, CCV03, CWYM08, CMG09, CEH09, CYS06, CSL08, CSKD05, CT07, DSM09a, GS09b, GSB03, GF05b, HWL08, HV03, HNF07, HKG08, HS03a, HS06, HS08a, Her08, HHMK05, IA06b, JH06, KK05a, KKCF09, KK03b, KPK09, Kok09, KPP09, KDW08, LSB04, LLY05, LVL05, LM03a, LCH03, LJW09, LVW06a, LVW06b, LLB05, LH08a, LS05b, LBL06b, LBL07, LBL08, MS03, MJT06, MGC06, MG06, MG07d, MCN03, MCP03, MLS⁺05, NE05, OSK09, PS04, PS08, PSM08, PL07, Rem06, RRW05, RWWS07, RCB05, SB06c, SS05a, STZ07, SPGR06, SWL06, TZL05, TRSK09]. **grids** [TDGP06, TMG08, VGPL09, VSW04, VSW06, WZL04, WG09, WA08, WdND06, XLS09a, XLS09b, YJL⁺06, YJ06, ZT07b]. **Grooving** [KAIN01]. **Gross** [BJM03, CORT09, CJK⁺03]. **Ground** [BT03, FGOV00, BCL06, CORT09, Woo06]. **Ground-state** [BT03]. **Ground-States** [FGOV00]. **Groundwater** [MBP00, WGNT06]. **group** [BFJ03, BMK⁺06, HJFW04, San03, Har04]. **group-III** [BMK⁺06]. **growing** [Mad06, MM07]. **Growth** [CMK⁺01, GW02, GGL⁺01, JK02, RV00, BHL⁺04, CLL07a, CF06b, DQA08, EES09, HLX06, LB03a, ML05, ML06a, MWG⁺06, NDG05, PSCQ03, RS06b, SSE03, SA06, Sus03, TZ07b, WLT08, YFBH07, ZVHP03]. **GRP** [BALW06, BF07, LLS09]. **Grüneisen** [Shy01]. **GSHMC** [AR08]. **guess** [TDV06]. **guesses** [BHL07]. **guides** [GP04]. **guiding** [Mot08]. **Gyro** [BB09a]. **Gyro-water-bag** [BB09a]. **Gyrokinetic** [KP00, Par02, BB09a, CW03, CP03c, CP07, HKM07, HJKO08, IITV07, LGKP07, NLLE06]. **gyrokinetic-Maxwell** [CW03].

Haar [LKNG04]. **Haidvogel** [SM09b]. **HALE** [AHNS09]. **Half** [DK02b, TFDK04]. **Half-Moment** [DK02b]. **Hall** [CK03, ODCK07, TMG08]. **Hamilton** [BL03, CQO04, CC07, CS07b, CY05, FF02, KOQ04, KOQ08, KR02, KT00b, QS05, TTZ03]. **Hamiltonian** [JW06, BM01c, BRP05, CKL00, GAC⁺09, LY07a, Rei00, Tan05a]. **Hamiltonian-preserving** [JW06]. **Hamiltonians** [ESD05, KJ01]. **Hancock** [Waa09]. **Handling** [FPC⁺00, BOT05]. **Hard**

[WB01, DTSC04, DTS05a, DTS05b, DST07a, NFvS⁺06]. **hard-particle** [DST07a]. **hard-sphere** [DTSC04, NFvS⁺06]. **Harlow** [Bra04]. **Harmonic** [CKGL02, KMR00, LTZ01, SS00, APT09, AG09, BCR04, BHNPR07, DLP08, EHD08, Gab07, GG09a, GD07b, LTD⁺06, MKOW04, MHPR08, Tyg08]. **harmonics** [KL06, WJV07]. **Hartmann** [HY11, HY09]. **Hartree** [FHLK05]. **Haurwitz** [SD06]. **having** [Wen06]. **HD** [Saf00]. **heap** [NFA03]. **heap-based** [NFA03]. **Heaps** [Mu02]. **heart** [NLT07, vLAvdV06]. **Heat** [BW01, CS01b, CPK02, IYI⁺02, LLH02, LTK⁺02, MCJ01, ZZ01, AMXL09, DQ04, FHLO08, FF03, FDK06, GF05a, GL06, GYKL05, GLT07, GL09b, HL04, HC09, JG09, LG07, LCNR07, LR03, MJ09a, MSP⁺06, MR07c, Mou04, PFSL07, PS07c, SBCL06, Tau07, Thö04, TFDK04, VB08, YYF09, YLD09, YSW06]. **Heat-transfer** [IYI⁺02]. **heated** [FPT05]. **Heating** [OL01, Rid00, DMR09, FLB03]. **Heaviside** [MG08, Tow09b]. **HEFAT2005** [Ano05s]. **Height** [Bon00, FB08]. **Hele** [FS04, KW08b, LLL07]. **helically** [LP07a]. **helicity** [LW04]. **helicopter** [EHD08]. **Helium** [GG00, LKE04]. **Helmholtz** [AST07, AAC07, AHPT07, AC05, AQ00, BB08a, BFT07, BFT09, BKM09, BK08, Boy05a, CWJ07, CHL06b, CCG⁺06, Dar02, FT05, FSY00, GKL03, Had05, HMPR07, IK01, KTD03, KR09c, LT09b, MP03, ND04, Pri08, RKE⁺07, SFY01, ST04, VW02]. **Hermite** [Cap08c, BS08a, Cap08b, Cap09, GS06b, LBL07, QS04, QS05, TCN09]. **Hermitian** [Cap05, Cap06, Ovt08, SPLM09]. **Hessian** [AI09]. **Heterogeneous** [CGSS00, DPRS01, OV00, RE05, AE03, AZ06, CCV03, CDS04, GZ07a, GZ09, GLLN07, GLLN09, JLT06, LZT09, LTZ03, LH05b, RKE⁺07, SMGJ09, WGNT06, YE07]. **heterostructures** [BNNP06, WHLL03]. **Heuristic** [Dwi08]. **hexagonal** [Thu08a]. **Hexahedral** [MHS01, ZYC02, Aza06, Aza07, Aza09, CFP06, FM08]. **Hierarchical** [Deh02, XLS09a, XLS09b, KF06, MZ09, MG05a, VCM00]. **hierarchical-element** [VCM00]. **High** [AC00, ACY00, APTJ⁺04, AHNS09, BS00a, BFT07, BBMB07, BRC⁺09, BLM03, BTW03, BGLN05, BK01, BL03, BSB01, Car01, CL01a, CP04a, CKGL02, CYKC01, CS06, CS07d, Coe02, CR00, CSP01, Cor00, CFR08, DT04, DZ00, DBBP08, DR09b, DDFT09, DLS⁺00, ERT02, FT01, FR03, FCB02, FG02, GZ01, GF02, GHW02, Gir06, Giv01, GN03, GP00b, GLN06, GKL00, GL08, HMOG08, HW02, HT00a, HT00b, IX09, JH06, JK00, KZ04, KMS03, KT06, KMA⁺01, KB01, KB06, Kry04, KT00a, KT00b, KT04, LL09, LG04, Li08a, LYC09, LS00, LCS09, LR03, LF04, MN06, MP05, MC06b, MC01, MD01, NM06, NR01, Nic00, Noe00, NXS07, NC01, NT07, Nys02, OGV02, PW00b, PW01, QS02, RH05, SLY02, SYG06, SZC09, SS05a, SHY07, SL07c, TK00, TX00, TWYC06]. **High** [TCN09, TD07, TB04, TS02, VCP00, Vas00, WH02, WSYS09, Wen07, Wen09, WAH09, XS05a, XS06, XK01, YHSX07, ZTZ02, ZW04, ZT03, ZW03, ZZFW06, ZS01, de 00, Ain04, AMR06, ACR08, AC09, BRDM09, BSKH07, BHS09, BFT09, BdCB09, BBCT09, Boy06, BSW05, BH04, BHP07, BJP04, CJSS08, Cap08c, Cap09, CT08a, CQO04, CK03, CTS07, CC07, CS07a, CKG04, CFP06, CC04, CF04, DSM09b, DE06, DC07, DTMS06, DDH05,

DI09, DK07, DET08, DZ09b, FNS07, FOLD05, FD07, GPC07, GG04, GH08a, GSV09, Gom08, GL06, HH07b, HLS06, HWL08, HS03a, HS06, HJJ09, HY09, HY11, HH06, IQ08, JD09, JBF07, JLOT05a, JY08, JS05, KE06, KCGH07, KG09, KM06, KM07b, KK05b, KKK08, KYK07, Kok09, KPP07, KPP09, Kri07, KR09c, LG09, LL05, LTZ03, LX09, LN09]. **high** [LDW07, LR07, LF05, LTD⁺06, LS09, Mai09b, Mai09a, MRS09, MY06b, MOG09, Min04, MPFC08, NLF03, NOG08a, NOG08b, NPC09a, NPC09b, NWZL08, NF09, NGvdWS09, OF06, OVG07, PPD08, PPCW06, QW05, QA09, QFR04, RRW05, RKE⁺07, RF06, SDM04, SWK06, SFE07, SMB09, SZS03, SZ05, STZ07, SJHM09, SY03, SGG⁺04, SCN07, SN08, TET09, TFD06, TDWY08, VWW04, Wan04a, WL06, WM07, WGRA09, WZ07, WA08, WMH07, XCRX08, XP04b, XS05c, XYK05, YC09a, YS07a, YBZ06, You06, ZL04, ZJ09, Zho07, ZYHS07]. **high-** [CK03]. **High-accuracy** [AHNS09]. **high-amplitude** [PPCW06]. **high-dimensional** [DI09, LDW07]. **High-fidelity** [NT07]. **High-Frequency** [ERT02, ACR08, RKE⁺07]. **High-Order** [AC00, ACY00, BK01, BSB01, CL01a, CKGL02, Coe02, CR00, CSP01, DZ00, DLS⁺00, FT01, GHW02, Giv01, HW02, KB01, LS00, MC01, NR01, Nic00, NC01, Nys02, QS02, SLY02, TK00, TX00, TS02, VCP00, WH02, XK01, ZS01, de 00, APTJ⁺04, BFT07, BBMB07, BRC⁺09, BLM03, BL03, DR09b, Gir06, GN03, GL08, HMOG08, JH06, KT06, KB06, LL09, LF04, NM06, NXS07, RH05, SS05a, TWYC06, TCN09, TD07, WSYS09, WAH09, YHSX07, ZW04, ZT03, AC09, BFT09, BdCB09, BH04, BHP07, Cap08c, Cap09, CT08a, CC07, CKG04, CFP06, DSM09b, DC07, FNS07, FOLD05, FD07, GPC07, GG04, GH08a, Gom08, HH07b, HWL08, HJJ09, JD09, JBF07, KE06, KK05b, KKK08, KYK07, Kok09, KPP07, KPP09, Kri07, LTZ03, LN09, LF05, LS09, Mai09b, Mai09a, MY06b]. **high-order** [MOG09, NLF03, NOG08a, NOG08b, NPC09a, NPC09b, NF09, QW05, SFE07, SMB09, SZ05, STZ07, SGG⁺04, SCN07, SN08, VWW04, Wan04a, WL06, WM07, WA08, WMH07, XCRX08, YC09a, YBZ06, You06, ZL04, ZJ09, Zho07, ZYHS07]. **High-Order-Accurate** [OGV02]. **high-performance** [XYK05]. **high-Re** [KM06, KM07b]. **High-Resolution** [FCB02, GF02, GP00b, JK00, KT00a, KT00b, MD01, Noe00, PW00b, PW01, ZTZ02, BTW03, GLN06, Kry04, KT04, LR03, SYG06, SL07c, KG09, BSKH07, BBCT09, CC04, OF06, SWK06, SJHM09, TDWY08]. **High-Reynolds-Number** [FG02]. **High-Speed** [KMA⁺01, BHS09, HS03a, HS06]. **high-wavenumber** [CC04]. **Higher** [DV02, Fox09, GP05, HM04, JMC03, MBM01, PM00, SH07a, SP06b, Tol07, VGCN05, VG02, YMT⁺04, vZdBB07, APP⁺07, FRS08, GLT07, HMPR07, Hel09a, HMMO05, HB05b, KPB08, MC07c, MHPR08, ODAF07, PKD07, WD07, ZJS08]. **Higher-Order** [PM00, VG02, Fox09, JMC03, SP06b, YMT⁺04, vZdBB07, APP⁺07, FRS08, HMPR07, HMMO05, HB05b, KPB08, MHPR08, WD07]. **Higher-than-fifth-order** [Tol07]. **Highly** [CL02, FK02, SE09, deM02, DGH08, EG08, HH07a, HDR⁺06, Lar07, MD06,

SWB⁺06, WGNT06, vdDA06]. **highway** [ZWS06]. **Hill** [DK06]. **Hilliard** [CR07, CFP08, pHL09, KW06, KKL04, WKG06, WKL07, XXS07]. **histogram** [BS09a]. **history** [BS07]. **HLL** [Jan00, MK05]. **HLLC** [Cap08c, HJ07, HAI09, KLLJ09, Li05]. **HLSM** [Cap09]. **HOC** [KR09a]. **Hodge** [Sum00]. **hollow** [DJ04]. **Holm** [COR08]. **Homentropic** [KLvBvL02]. **homoenthalpic** [BEA09]. **Homogeneous** [Cle00, SPW⁺00, BIVC07, FR03, KM07b, KW03, PH09, SBA07, TMD07, GM04]. **Homogenization** [PR01b, AE03, SKR06, YH07b]. **homotopy** [LR07]. **Hood** [LSA06]. **Hopper** [GM01b, GMO04, GMS06]. **hopping** [KLW09]. **hot** [GS05a]. **hot-phonon** [GS05a]. **hp** [BW01, ES06, NM06, PP09, PR03, PR04b, PR06, SC01]. **hp-finite** [PP09]. **hp-multigrid** [NM06]. **Hubbard** [CD04]. **Hugoniot** [JR09]. **human** [BCDW06, XS07, ZK04]. **Humans** [POS00]. **Hutter** [FNBB⁺08]. **Huygens** [Bér07]. **HWENO** [BAMD07]. **Hybrid** [BM02, Bow01, CS03, EFFM02, EF02, EF03, GK01, HL07a, HP04b, HCG01, JPMC01, KC00, LS02a, LM01, MPC01, MPC02, Pir02, QL01, RB02, SA06, Stu01, WWK05, vdHK07, AK06a, ABRRO9a, ABRRO9b, AJ09, AGW07, BFB08, BAMD07, BCCV09, BB09c, CCG08, CHB09, CYS06, CD07, CDL04, CDL05, De 04, DBF08, DR06, DUEB07, GXW07, GS05c, GN07, HR08, IH04, KA05, KK05b, Kwo08, LG08, LM03a, LKO05, LBL06a, MC07b, MCP03, NTO⁺07, NK08, NG06b, OK06b, PLS⁺09, PGN08, RJ06, RLZ03, SRM09, SB06b, She08, SCRL08, SBC04, SK06, TKH09, VTC⁺07, ZH04, ZL09, ZSB⁺08]. **hybrid-Vlasov** [VTC⁺07]. **hybridizable** [NPC09a, NPC09b]. **hybridizations** [RGK07]. **hydro** [LW04]. **hydro-** [LW04]. **Hydrodynamic** [Myo01, NJLA06, SMP01, AK09, BS04a, BM06, BTC05, BH09, BBW06, Che04, CELS07, DJM05, HGBH03, HLF07, HS09b, LCB04, Li08a, LYC09, Myo04, SP04, SE04, SO08, SY08]. **Hydrodynamical** [Rom02, ZD00]. **hydrodynamically** [AGW07]. **hydrodynamically-interacting** [AGW07]. **Hydrodynamics** [BKR⁺01, BZ08, CRB00, CPK02, DW00, iI02, PM02, ZF02, ASPB03, BRDM09, BZ04, BBC⁺06, BOT05, BD06, CGSR08, CL06a, CDDL09, CFL⁺03, CL03b, CEL06, DST07b, ESE07, HK08b, HX05, HG03, KSW07, Li05, LC06b, LSW08, LRS09, MN09a, MC06b, MESV09, Min07, MC07c, MHW05, RHPN09, TM05, TMSW07, ZB07]. **Hydrogen** [CP00, GG00, BRB03]. **hydromedusa** [SM09a]. **hydrophobic** [ZTPM05]. **hydrostatic** [BKLL04, IHL03, SE04, SP06a]. **Hyman** [RV07]. **HyPAM** [ZL09]. **Hyper** [MS01, DHM03]. **Hyper-Surfaces** [MS01]. **hyper-systolic** [DHM03]. **Hyperbolic** [AC00, ACY00, Asl01, ADK00, ADK02, BJ00, BAFL09, DKK⁺02, Dur00, FMO00, GC01, KKP02, LL00, LMSW02, MOS⁺00, NTYT01, NTYT02, PL01, RC00, Sti02, TS01, Xu01a, YL01, Abg06, AC09, AKLMP09, BR09a, BBCT09, BCCD08, CLG07, Cap08a, Cap08b, Cap08c, Cap09, CT08a, CP08, CGKM06, CD07, De 04, DQ04, DK07, DKTT07, DET08, Edw06, Gir06, Gui05, HH07b, Hwa03, JR09, JTL09, JLOT05a, JAK05, KPP07, LL03c, ML08, Mil04, MC07b, NvL03, NG06b, PC06b, RLZ03, RBvdV08, RDPN07,

RBL04, Ros06, SDM04, SYG06, SZLW06, SR09b, TT05a, TT05b, THD09, THS07, TY07, Wen06, XS06, vDZ06]. **Hyperbolic-Elliptic** [Xu01a]. **hyperbolic-parabolic** [BR09a]. **HyperCASL** [FD09b]. **hyperelastic** [Mil04, YH07b]. **hyperreduction** [Ryc05]. **Hypersonic** [BM01b, KKR01a, KKR01b, ELD08b, SSB07, XMT05, XHC08, ZT03]. **Hyperspherical** [AKV00]. **hypersurfaces** [BGN08]. **Hyperviscosity** [CC05]. **hysteresis** [Spe05].

IAT [Moo03]. **IBC**

[Ano07d, Ano07e, Ano07u, Ano07v, Ano07w, Ano07x, Ano07y, Ano08u, Ano08v, Ano08w, Ano08x, Ano08y, Ano08z, Ano08-27, Ano08-28, Ano08-29, Ano08-30, Ano08-31, Ano08-32, Ano08-33, Ano09y, Ano09z, Ano09-27, Ano09-28, Ano09-29, Ano09-30, Ano09-31, Ano09-32, Ano09-33, Ano09-34, Ano09-35, Ano09-36, Ano09-37, Ano09-38, Ano09-39, Ano09-40, Ano09-41, Ano09-42, Ano09-43, Ano09-44, Ano09-45, Ano09-46, Ano09-47, Ano09-48]. **ICCG** [VSMW01]. **Ice** [GC02b, Hun01, SSL00, MB04, Noe00]. **Ice-Sheet** [GC02b]. **Ice-Thickness** [GC02b]. **ICF** [DDFT09]. **Icosahedral** [TTSG01, TSG02, SMT⁺08]. **Ideal** [SHWW00, TX00, AT05a, CCF⁺05, FMR09, GS05b, GS08, HLS06, HT07, HJ07, LD04, MK05, NN09, Sam09, Ser09, SHY07, Tor03, TA06, Waa09, YHSX07, ZK06, Zie04].

ideal-magnetohydrodynamics [ZK06]. **ideal-MHD** [Sam09].

Idempotent [KCH06]. **Identification** [Gut00, BG09, Kou09, PS03a, VK04].

identifying [NLT07]. **IDO** [IKS⁺09, IA06a, IA06b]. **IECM** [CRAG07]. **IEM**

[CRAG07]. **IFC** [Ano03n, Ano03o, Ano03p]. **ignition** [VG01]. **II** [ACY00, AGT05, ADK02, BT07b, Cap06, Cap08c, CBKM00b, CP06c, CFGK05, CY05, DW00, DTS05b, FS00b, Gos04, GMO04, Hau08b, HS03b, IR09, JR04, JW02, KM07b, KKR01b, KK05d, LRN⁺02, Lio06, LL03c, LKMU05, LMS02, MS08a, kM07a, NMH⁺07, OKZ07, PGB05, PFSL07, PCS⁺09, SD05b, TOZP03, Tyg08, VBJ08b, WL02, XAI06, ZLAC05, ZQSD08].

III [BMK⁺06, GM06, GMS06, HT03, JW03, YU05a]. **ill** [vdDA06]. **ill-posed** [vdDA06]. **Image** [CPP02, KMA⁺01, XDC09, DC07, FSS03, XCY06].

Image-Charge [CPP02]. **images** [ADE⁺08, CJLS09]. **Imaginary** [GST02, LTE07]. **Imaging** [HSZ04, BHL07, BGR08, KNH05, KE09, PL09a].

imbedded [Zho07]. **IMEX** [HR07]. **Immersed**

[CM00, Cor00, FVOMY00, GKV09, KKC01, KC06, LP00, LL01b, SW00, WFC09, ZP02, AKP07, Ber04, BJ09, BGS08, BP08, CFR09, CXZ09, COER07, DCK08, FM04, GS07, GMD07, GSB03, GS05c, GP05, GHMP07, HK08b, HS08b, HS08c, HSS07, HST09, HF08b, IK07, KIH09, KIH09, LTH08, LKP06, LWP⁺09, LJS08, LF05, LMZ⁺08, MvW08, MDB⁺08, NFGK07, PSC⁺06, Pon09, RAB07, SLC07, SSND03, TZL05, TC07a, TLL⁺08, TLK09, TF03, Uhl05, Vik03, WZL09a, WZL09b, WS09, XW06, Xu08, YS09, YZLH09, ZZ07, Zho07, dTDI⁺07]. **Immersed-Boundary** [FVOMY00, KKC01, LMZ⁺08, YS09, ZZ07].

immersed-boundary/level-set [YS09]. **immiscible** [ICO04, TBJ⁺09].

Immittance [Mac00]. **Impact** [SDT08, ZYKW01, BZ08, CB09, GA09, KFH⁺04, KFIG06, KfV⁺05, MC06b, RGS04, SL04, TU04, UTBV03]. **impact-produced** [KFH⁺04, KFIG06]. **impacting** [LKY03, WSI08]. **Impedance** [HCG01, CCT05, HKS09, IKL⁺08, Lee07a]. **impinging** [NTB07]. **Implementation** [AG08, BK01, CTW⁺08, DCS00, Dar00b, Gel06, HHPW08, IK01, JC06b, KHV01, LLS09, MM01, MN02, PM00, Set01, Sof09, CLG07, Car09, CP06b, CP06c, CELS07, DSB06, FLE03, FYH⁺06, HWL08, KSHS08, KB06, LJ09a, Liv07, LLRP09, LQ06, MC09, Pon07a, SKS08, SHS08, SD05b, XDB09, YBS06, Yok07, vZS07]. **implementations** [VK09]. **implemented** [ALT08, CSL08, MKLU05]. **implications** [GPL05, KMID05]. **Implicit** [AC00, ACY00, AHF04, BCOS01, BCKV02, BSP06, CBKM00a, CBKM00b, CKF02, CB02, DOWB01, ED07, Gen01, GMB01, HK00, HT00a, HT00b, HLY09, HF08b, MS01, PCP08, RH01a, RLB02, RXH02, RB02, SWL00, WM07, WA02, WZ00, WS09, Yua02, ZTZ02, APR09, Alb08, Bon00, BLM03, BMDS05, BSW05, BUEG06, CFR09, CK03, CL06b, Cha07b, DPRN05, DR06, DWLM09, Dim07, DF04, FDD09a, GL09b, HR08, HAD06, HM05, HS08b, JBF07, JLT06, KCGH07, KK07, KB04, Kuz09, LH05a, LC06a, LM04, LWP⁺09, LM08c, LH08b, Low04, LLC⁺08, LZH⁺06, LZH⁺07, MvW08, MC06a, MELD08, MU09, MBS03, ML06b, Mot08, MBP07, MK03, NL08, NPC09a, NPC09b, NZZ06, NS05, OTCM08, ODCK07, RWMK03, RSW06, RJM07, RCB05, SFMP06, TBT⁺09, TMD07, TDGP06, TCO⁺04, Utn08, WPM02a, WDÖ⁺03, WZ03]. **implicit** [WdND06]. **implicit-explicit** [GL09b, KCGH07]. **Implicitly** [Mou04]. **imploding** [BPMR08]. **implosion** [NJLA06]. **implosions** [FRS08, KS08a]. **importance** [ASPB03]. **impose** [PK05]. **imposition** [APQ03]. **Impossible** [Azm02]. **impregnation** [Mad05]. **improve** [HM09, LY07b, SFVK06]. **Improved** [BLW01, CKR00, CKR01, EFFM02, Hei05, KK00c, MP01b, Pro03, Pro05, SK03, Xu01b, Abr07, BCCD08, BOT05, CBH03, HvHHS05, HLMM07, KZWY09, KW03, LHGF05, LP09, ML06a, MSJ07, MD06, NE05, ODAF07, Pon06, Pro07, SCW⁺09, TMD⁺08, TS07, WYS09, WKB07, XDB09, ZZ07]. **Improvement** [Bil05, FDD07, SVB09]. **Improvements** [CSC⁺08, HMOG08, MPFC08]. **Improving** [BL01, HMM08, TB06, AG09, GS03a]. **Impulse** [Cor00, Sum00]. **impulsively** [DCK08, KR09a, NCS03, Sam09]. **Impurities** [Gos04]. **Impurity** [VDM⁺02]. **inclined** [QP03]. **Including** [BMS00, DK02a, JP03, BBDE05, BL08, GS05a, HC08, HF08a, WG09]. **Inclusions** [Bal02, CGDT09, KK03a]. **Incomplete** [LZL03, Moo03]. **Incompressible** [BCM01, CFA01, ČPT01, Cod01, CMOV02, Del03b, ESE07, GPH⁺01, Goe00, GQ00, GSW00, HLS02b, HH02b, JL02, KA05, KC00, KM00, LLH02, LOK01, LS00, LW01, MPP01, MC00a, NFK01, Pai01, PKP01, PSN00, QV01, Ros00, Sni01, SP00, TC01b, VC00, WPW02, WPH00, WS01, Yua02, BCDR06, BGM08, BF08, BS04c, BJ09, BGLN05, CPR05, CCG08, CRAG07, CYS06,

CSL08, COER07, CMR08, CC08b, DHOT09, DSM09a, DDH05, DS06a, DSS07, EHST03, EHS⁺08, ÉGP09, FP08a, FL06, FGP08, GS07, Gel06, GSV06, GCNB07, GGP06, GS03c, Gri09, GR07, GS03d, GS09c, GLLX08, HAS05, HK08a, Hel05, HVAC09, HA07, HA09, HC05, IK07, IAT08, IOTK04, JLL⁺06, KR09a, KE06, KDK⁺07, KDF07, KT03, LL09, LKP06, LL05, LMX⁺08, LF05, LRZ04, LKO05, Liu09b, Löh04, LHGF05, MVD04, MR06a].

incompressible [MCG08, MG06, MCN03, MDB⁺08, MVO04, NW07, NZ05, Neo07, NMM⁺07, NMH⁺07, Ni09, Nik06, OVG07, PKD07, PP09, PSC04, PN03, PvdV08, PR04b, Pon06, Pon07a, Pon07b, Pop03, PR06, PS07d, QS07, RBS06, Ros03, Ros07, RFVP09, RW03, SROCF03, SROCDPFF05, SC08a, SFE07, SD05a, SD05b, SS06a, STZ07, SKXK05, SZH07, SSH⁺07, TZ03, TZL05, TLK07, TLL⁺08, TJS03, Utn08, VCT07, VSW04, WRu03, WB09a, Xia04, XAI06, XP04b, Xu08, XSL09, YZ07, YYT05, ZR08, ZKY05, ZL09, ZJ09, ZFM08, ZHSS09].

Incorporating [BHR04, HKO07]. **Incorporation** [DM03, Cha07b, HS07b].

Increasing [AT08]. **Increasingly** [BS00a, ZJS08]. **Incremental** [DB00].

indefinite [Had05, RS05, RS09a]. **Independent** [BSB01, CCJ07, CN05, CJK⁺03, CSMH05, Lap04, LTE07, SGFL09, YBZ04, Yin06]. **Index** [Ano00s, Ano00t, Ano00u, Ano00v, Ano00w, Ano00x, Ano00y, Ano00z, Ano00-27, Ano00-28, Ano01s, Ano01t, Ano01u, Ano01v, Ano01w, Ano01x, Ano01y, Ano01z, Ano01-27, Ano01-28, Ano02s, Ano02t, Ano02u, Ano02v, Ano02w, Ano02x, Ano02y, Ano02z, Ano02-27, Ano02-28, Ano03-27, Ano03-28, Ano03-29, Ano03-30, Ano03-31, Ano03-32, Ano03-33, Ano03-34, Ano03-35, Ano04-28, Ano04-29, Ano04-30, Ano04-31, Ano04-32, Ano04-33, Ano04-34, Ano04-35, Ano04-36, Ano05-29, Ano05-30, Ano05-31, Ano05-32, Ano05-33, Ano05-34, Ano05-35, Ano05-36, Ano05-37, Ano06-28, Ano06-29, Ano06-30, Ano06-31, Ano06-32, Ano06-33, Ano06-34, Ano06-35, Ano06-36, Ano07-33, Ano07-34, VSG05]. **index-1** [VSG05]. **Indicator** [CHR01, KKP02, BAMD07, CR05, Khe04]. **indicators** [ZQ09]. **Indirect** [KS02a, WK04]. **Induced** [POS00, ABLS05, BCDW06, DL03b, MM07, RV09, SZC09, SCRL08, VVS08, YT07]. **Induction** [CBB01, FLB03, GFR09, IDD04]. **inelastic** [SM05]. **Inert** [dSAK00]. **Inertia** [GS02, JP03]. **inertial** [KMSH08, PK07]. **inertio** [Kas07]. **inertio-gravity** [Kas07]. **inexact** [GG09b, HC05]. **inextensible** [VGZB09]. **inference** [MN09b]. **inferior** [Boy06, WZ07]. **Infiltration** [JWSC00, JW02, JW03].

infinite [BRB03, GVT01, Mil08, ST04, zSW06, zS06, VCT07]. **Inflow** [LP06b, FE04, GW06, KSJ03, Lar09, MJ07, SAK05]. **inflow/outflow** [SAK05]. **Influence** [BT07a, NW07, RB09b, Wal03]. **information** [HMA05, MY07, Ram03]. **Inherently** [BS00d]. **inhomogeneities** [AV03, TJ09]. **Inhomogeneous** [FS00a, FS00b, HHCL01, LMSV00, OS01, BH04, CJSS08, DBF08, GGOB04, HLF07, Lar07, SF03, YHCD05, ZWS06].

Initial [Kas07, KJ01, AMXL09, BHL07, BS05, CL08a, FF03, RMGK04, SN06, Tem06, TDV06]. **initial-boundary** [FF03, SN06]. **Initial-value** [Kas07, BS05]. **initio** [GM06, SLG⁺03]. **Injection**

[CVB00, FKV08, dSHHM05]. **ink** [YSS05]. **inner** [Gel06]. **inorganic** [MWG⁺06]. **input** [GZ08]. **inputs** [DI09]. **insect** [Liu09a]. **insoluble** [GT09b, JL04a, LTH08]. **Instabilities** [PD01, KP08, LL08b, MC09, MV06, NLT08, Pri08]. **Instability** [FBFF00, HGB⁺03, LS02b, Lio00, MT01, Mon00, CL07b, CGM07, FS06, KTD03, sKKRH03, LSD07, LS08, Sus06, TM05]. **Instructions** [Ano03q, Ano03r, Ano03s, Ano03t, Ano03u, Ano03v, Ano03w, Ano03x, Ano04q, Ano04r, Ano04s, Ano04t, Ano04u, Ano04v, Ano04w, Ano04x, Ano04y, Ano05t, Ano05u, Ano05v, Ano05w, Ano05x, Ano05y, Ano05z, Ano05-27, Ano05-28, Ano06t, Ano06u, Ano06v, Ano06w, Ano06x, Ano06y, Ano06z, Ano06-27, Ano07z]. **instrument** [FHJK09]. **integrable** [CHL06a, CL08a]. **Integral** [AGH00, CHL06a, HO08a, Hel09b, HLS01, Mai01, Stu01, SG03b, AvdB04, AD03, BO04, Bot06, BT09, BEPT09, DBF08, EG08, GGS09, Gla05, GPV07, Gui03, Hof04, HLX06, JA08, JR03, JR04, LN09, MR05, SB06c, Ten03, TC09a, TdAAP08, VGZB09, WXG07, XSG04, XSG08, YBZ06, YH07a, YLA08]. **Integral-differential** [SG03b]. **Integrals** [GM01c, Saf00, Saf02, SS01b, BLL03, GvH06, MG07a, MT04, SB06a, Wen07, Wen09]. **integrate** [CSC⁺08]. **Integrated** [Liu09a, ZRR00, Xia04, XAI06]. **integrating** [JBF07, Kro05, SK06]. **Integration** [BKR⁺01, BCVK02, HF01, LBV01, Lou00, MCCT02, PWW00, San01, SDD07, WDM01, Bal08, BSW05, CP03a, COR08, CSML06, DEHL06, FG06, HBHS09, JMC03, KEB⁺07, KCM03, KLM07, Low04, MRRS05, MELD08, MG07b, MT04, MG07c, MDM03, NWZL08, OS04, OK06c, PH09, RBSL06, RMGK04, RSO04, SV07, SHPC09, Tok06b, VVM05, WG08, Yeh07, dSM05, vZdBB07]. **integrations** [ZHSS09]. **Integrator** [LR01a, KSHS08]. **Integrators** [IKS01, BIS07, FDL08, MGS09, QM03, SW08b]. **Integro** [HR01, Chu09, IDD04, SKW05, VVS08]. **Integro-differential** [HR01, Chu09, IDD04, SKW05]. **integro-moment** [VVS08]. **intended** [DDFT09]. **interacting** [AGW07, DDD05, SKW05, YB06]. **Interaction** [Pir02, Sur05, ZD00, BEE06, BQQ09, BGS08, CDDH07, CWL08, FM04, FG07, GHB03, GGCC09, HK04b, HAI09, KYK07, LDL⁺09, LMZ⁺08, LZH⁺07, MMS04, Pap08, QFR04, SK05, SM06b, TZ07b, XCY06, XW06, YM07, YF09, ZD05, vLAvdV06, vZdBB07]. **Interactions** [Han01, LTD07, VR02, AK06a, AMP09, BL08, BBW06, CC05, Eld08a, FT09, GH02, KM08b, LWP⁺09, LJK09, LKMU05, Mar06, MSP⁺06, SPT05, SL07a, TS04, YS09, Yu05b]. **Interconnects** [AIRY01, AIR03]. **interdisciplinary** [Ler06]. **Interface** [AMSZ07, ČPT01, CBI⁺04, DDS09, EFFM02, GW01, LS02b, LL01b, PL01, RM01b, SW00, SAM05, TC02, UMRK01, Wu01, YSC01, AS07, AMS04, Ber04, BR09b, BN09, BW07, CET09, CA06, CDDH07, CS08a, CXZ09, CS07c, CB09, DR06, DDM07, DIL03, DP09, DSS07, FS04, FGS09, FCT07, GMD07, GCNB07, GAC⁺09, Her05, HK04b, HKAH06, HAI09, JJGL06, JJGL07, Kim05, KPP07, KPP09, LLP07, LKP06, LZ09b, LJS08, LF05, LKY03, LKMU05, LHGF04, MKLU05, MDB⁺08, NT07,

NLT08, OSK09, QS07, QLS09, RMB07, RRV06, SGFL09, SYC09, SS07b, SDT08, SB07, SSH⁺07, TLL⁺08, TLK09, TU04, XW06, Xu08, YU05a, YJL⁺06, YS09, YZW07, YW07, ZL08a, Zho07, ZW06, ZZFW06, vEB05].

interface-sharpening [CET09]. **interface-tracking** [BR09b]. **Interfaces** [ACK02, Gla01, SZ00, Str00, Str01a, TK02, AS03b, AMS03, BS08b, BL09b, CD03, DS08, GLL03, Gre04, Hel05, HL05, HST09, Jia07, JY08, Kro02, LL07, LP04b, ML05, OK06a, PP04, Sam09, SPB09, SS08, TLK09, TT09, UTBV03, XD07, YJ06, YZW07, ZW04]. **Interfacial** [Dim07, Poz01a, THL06, BB04a, CL03b, Fan08, FCD⁺06, HW08, JL04a, KYLB07, Kro01, LTH08, MT08, NLT08, Pop09, Tan08, WB09a, XLLZ06, YZF⁺06]. **Interfacing** [FK09a].

intergranular [AIR03]. **interior** [Bor07, GLLN07, GLLN09, HH08, ML05, Mil08, Sha05]. **interlocking** [SK07b]. **intermolecular** [SB09]. **Internal** [HLKS00, BBC⁺06, Hew03, HK04c]. **Interparticle** [PM02]. **Interpolants** [GW01]. **interpolated** [IAT08]. **Interpolating** [FH03, CGSR08, HL04].

Interpolation [BR01, GC02a, Gui02, LSV09, Par02, TK00, YXU01, BP06, CP04a, CL08c, CLS09b, MS03, SZ05, TB09, TW03, UYK⁺04, WG08, WG06, ZW06].

Interpolation-free [LSV09]. **Intersecting** [RMO00]. **intersections** [LJSM08]. **Interval** [JMK01, BRB03, MK07]. **intravascular** [ZEA06].

Introducing [BBR01]. **Introduction** [Bra04]. **inundation** [Geo08].

Invariant [BU02, KE09, vBK03]. **invasion** [SL07c]. **Inverse** [BHL07, Bor00, CSV00, IFZ01, LR01b, TK02, AvdB04, BL09a, CT04, CBGI09, CDR09, GKL03, HO08a, Hoh06, JS07, KGJ05, KNH05, Lee07a, LAKD08, MNR07, MN09b, NLT07, VP09b, YYF09, ZG08]. **Inversion** [JZ08, Mac00, CSMH05, DD05, HPS06a, HS07a, Kry04, PSH⁺08, RR07].

inversions [Tol08]. **Investigation** [APQ02, BCZ04, MP03, CD04, CET09, KY08, LC06a, NTB07, PSCQ03].

investigations [TB04]. **Inviscid** [CKR00, CKR01, VD02, Xu01b, vdVvdV02, BDHN09, BP04b, BB08b, CLB08, CTT08, DF04, DS09b, FCT07, GXW07, GGF03, Kro02, NOG08b, NJX08a, NS04, SDT08, Xia04, Pro05]. **Involving** [KJ01, OS01, LKP06, MS08a, MR07a, ND04, SC09a].

Ion [OL01, ED07, GLS03, GIA⁺07, GBB⁺06, Hum05, SDD07]. **ionic** [BS05, DC07, XDC09]. **ionization** [RHPN09]. **ionized** [Kwo08, MD04].

ionizing [AM05]. **ions** [BBF⁺08, Kwo08, XJ07]. **Irregular** [CL00a, Cal02, GFCK02, GC02a, LFK00, MCJ01, TS02, vdSE00, BF08, BP07, CGRGV⁺04, HWW07, ILL09, JM05, LF05, MG07c, SROCdPFF05, SS08, VTT08].

irregularities [HMM08]. **irrotational** [CL06a]. **ischemic** [NLT07].

Isentropic [LKX04, HH06]. **Ising** [FGOV00, FV01, PVPS09]. **Island** [Cho00]. **isochoric** [XMP07]. **ISOD** [RBH03]. **isolated** [KK03a]. **isopycnal** [WAH09]. **isosurfacing** [Min03]. **isothermal** [DHOT09, Mig07]. **Isotope** [OL01]. **Isotropic** [BC02b, CL08c, Kum04a, LP02, KMSH08, YSO07, YGL05]. **Isotropy** [Hua01b, ZSC07]. **isovalue** [RBH03]. **isovalue-oriented** [RBH03]. **ISPH**

[XSL09]. **issue** [Ano07-27, Ano07-28, Ano07-29, Ano07-30, Ano07-31, Ano08-35, Ano08-36, Ano08-37, Ano08-38, Ano08-39, Ano08-40, Ano08-41, Ano08-42, Ano08-43, Ano08-44, Ano08-45, Ano08-46, Ano08-47, Ano08-48, Ano08-49, Ano09-49, Ano09-50, Ano09-51, Ano09-52, Ano09-53, Ano09-54, Ano09-55, Ano09-56, Ano09-57, Ano09-58, Ano09-59, Ano09-60, Ano09-61, Ano09-62, Ano09-63, Ano09-64, Ano09-65, Ano09-66, Ano09-67, Ano09-68, Ano09-69, Ano09-70, Ano09-71, Ano09-72, HJJ09]. **Issues** [Ano00q, Ano00r, Hun01, FL06, Thu08b, WZL09a, WZL09b]. **iterate** [AMXL09]. **Iterated** [SS09c, Wel07]. **Iteration** [Boy02b, Yan08, Küm04b, LY07a, TB09, ZSTC06]. **iterations** [BEPT09, MYW07, Ovt08, YLD09]. **Iterative** [AvdB04, BS00e, GZ01, HBHJ08, Man02, RW00, Vos06, ZZ01, BFG08, CL03a, CL08d, FWP09, GV06, Had05, KKS05, LT05, LH08b, Mil04, Mil08, OMK09, Thö04, Tok06b, TDV06, WW04, Yon01, YHCD05]. **iterative-perturbation** [YHCD05]. **IV** [WZL04].

J [ABRR09b, CL08b, DD03a, HMS08b, HY11, HLWW06, JJGL07, Lau06, LM03a, MKM04, MN17, Mil07, SM09b, SCC⁺03a, WZL09b, dTWD09]. **Jacobi** [BPS03, BL03, CQO04, CP06b, CC07, CS07b, CY05, CL00b, FF02, Had05, KOQ04, KOQ08, KR02, KT00b, QS05, SR09a, TTZ03]. **Jacobian** [CBKM00b, CZ09, CSV00, KK04, KMS02]. **Jacobian-Free** [CBKM00b, CZ09, KK04]. **Jacobians** [Chu09]. **jammed** [DST07a]. **jamming** [DTSC04]. **Jet** [ZYKW01, DB04, LLC06, YFLS06, YSS05]. **jets** [Cha09]. **jetting** [YSS07]. **Joint** [JPMC01, AJ09, RJ06]. **Joule** [DMR09]. **jump** [MDJS07, RC06]. **jumping** [LHZW05]. **jumps** [RAB07]. **junction** [LMH07]. **June** [Tol02a].

Kac [BLL03, PWW00]. **Kalman** [IKL⁺08, KFH⁺04, KFIG06, LX09]. **Kantorovich** [DCF⁺08]. **Karhunen** [BP04a, ST06, ZL04]. **Kármán** [YKG04]. **KdV** [Dur08]. **Keller** [PS07a]. **Kelvin** [CPG04, KTD03, Pri08]. **kernel** [DLD⁺06, MRRS05, SL06, YBZ04, Yin06, YH07a]. **kernel-free** [YH07a]. **kernel-independent** [YBZ04]. **kernels** [CGSR08, GvH06, HX05, Lau04, TMND07, WG06]. **Kerr** [de 00]. **Kershaw** [FM08]. **Kind** [GST02, Gui03, JR03, JR04]. **Kinds** [Boy02a]. **Kinematic** [TFD06, BK07, LLZ07, Pon05, XSG04, XSG08]. **kinematics** [BST03, LTC07, Liu09a]. **Kinetic** [CKR00, CKR01, CL01a, CHBS04, Del02, DQ04, FL06, HK04c, KK00b, KQW03a, Lap02, LM08a, LX00, Ohw02, San01, TX00, TRL01, Xu01b, Xu01c, Xu01a, Xu02b, ACGV07, BBHM09, CLL07a, CBC09, CV06, CP03c, CELS07, CJ09, CDL04, CDL05, DJM05, DDM07, ELVE07, Fox09, GC06, GBB⁺06, HM09, HS07b, JX07, KK05a, KQW03b, LGKP07, LZ04, LF06, LZ09c, Liu08, MMKP08, MSJ07, NJX08b, NJX09, OX04, OK04, OF06, QW05, QA09, RCT07, RSM05, RS06b, SSE03, Sch08, SHY07, SY08, SA06, SS06b, SC09b, SK07b, TDWY08, TXCD07, TKH09, VK05b, WXG07, XH03, XMT05, XHC08, YHSX07, ZSB⁺08]. **kinetic-fluid**

[CDL05, DDM07]. **kinetic-hydrodynamic** [CELS07]. **kinetic/fluid** [CDL04]. **Kinetics** [MOvL00, SD00, BHL⁺04, LGP09, Lap03]. **kinetics-based** [Lap03]. **Kirchhoff** [GPL05]. **KIVA** [TT06c]. **KIVA-4** [TT06c]. **Klein** [BY07, HZ08, HJL09, RBK09]. **kMC** [RMGK04]. **knot** [JC06a]. **knots** [MR03]. **known** [KZWY09, Lab09]. **Knudsen** [KPB08]. **Korteweg** [CkM07, LGK06, LY06]. **Krig** [GSK06]. **Krylov** [BB07a, BT02, BEPT09, CBKM00b, CS08a, CZ09, FWP09, HJM07, JH08, KM00, KK04, MYW07, MKR00, NOG08b, SNGAS04]. **Krylov-accelerated** [CS08a]. **Krylov-Based** [BT02]. **Krylov-subspace** [BEPT09]. **Kuramoto** [CFP08]. **Kutta** [HyLL07, ZP06, AHNS09, Bal08, BP09, BSB01, CFR04, Dri02, HL06b, KCGH07, KHV01, KWD07, KDW08, LX07b, QS04, QKS06, QLK07, Rei00, STR07b, Tan05a, ZQSD08, ZQ09].

LA-UR-03-3852 [Har04]. **laboratory** [BvdHKG07, Har04]. **Lacunae** [QT08, Tsy04]. **lacunae-based** [Tsy04]. **Laden** [WK01a, JD09]. **lag** [MKKY06]. **Lagrange** [BG05a, DDK06, DLMK04, Gir00, HB02, SPT05, VMN07, ZSP08]. **Lagrange-distributed** [WZ07, Boy06]. **Lagrangian** [NTYT02, Tol02a, AA07, AH08, AEP04, ALGM01, AHMS03, BG07, BBC⁺06, BS08b, BS03a, BLG⁺08, BR09b, Bon00, CRB00, CL06a, CFF07, CDDL09, CS07a, CJR04, FF02, FP08a, Fed02, GT09a, GT09b, GXW07, GHB03, GPF03, GCCD07, GBB⁺06, GD05, HK05, HK08c, HPZ01, IX07, Jao07, KMSH08, KMS02, LS03, LHZW05, LCS09, LY04, LS05b, LC06b, LSW08, LRS09, Mai09b, Mai09a, MN09a, MGGH00, MP08, Mea04, ML01b, MDM03, NSS03, NTYT01, OF02, RB05, RBS06, RWWS07, RCB05, SM09a, Str00, Str01a, TOY09, Tol02b, TJLT08, XY01, XK01, YSO07, YA05, YFBH07, ZWS07]. **Laguerre** [BS08a, BRB03]. **Laminar** [BCVK02, VBL03, BC08, BEG03, CFL⁺03, FGP08, GLLX08, LLC06, MR04, MAL09, RFVP09]. **Laminates** [Wee02]. **Lanczos** [CKLS05, Bor00, BS05, JHZ⁺09, SHS08]. **Lanczos-type** [JHZ⁺09]. **Land** [GKL00, KJ09b]. **Landau** [BCG09, BC02b, DDG02, DDFT09, FP02, HZ02, Lem00, PRT00, RSS09, ZZ08, dSM05]. **Lane** [PSD09]. **Langevin** [BLW04, DEHL06]. **LANS** [HHPW08, PHW08]. **LANS-** [HHPW08, PHW08]. **Laplace** [GF05a, HZ07a, HSQ03, HW05, Kry04, SSN09, SY09b]. **Laplacian** [AHPT07, PAD07, Pon05]. **Large** [ATV01, BADG00, Ben02, Bor00, DF00a, ELD08b, FLG01, FG02, Gui02, KS02b, KK00a, KDC05, LLQ⁺02, ME09, PPC00, TSB01, TR02a, ZWL02, AHNS09, AL06, AD04, BPS03, BBB08, BS03b, BSW05, BTWGvBW07, CF06a, CGDT09, Cho05, CM03, CSKD05, DT03, DSS07, DS09a, FDD09a, FDD09b, FH03, FKK08, Gra06a, Gra06b, HBLD07, Heu03, HP04b, IOTK04, KSJ03, LZL03, LVL05, LP06b, Liu09c, LDV08, LJ07, MCM04, MLM09, MGS07, MDM03, MBP07, MMPB07, MV08, MHdB07, NLF03, PDHP07, PYC04, PM07, RMG⁺09, SSW⁺07, Soc03, SFMP06, TSB03, TMD07, Tok06b, TC09b, VK09, VTM⁺08, XLP05, YZ07, YB06, ZSC06].

large-amplitude [CF06a]. **Large-Eddy** [KK00a, ME09, PPC00, TSB01, KDC05, BBB08, CM03, CSKD05, DS09a, FDD09a, FDD09b, HBLD07, LDV08, MCM04, MLM09, MGS07, MBP07, MMPB07, PDHP07, SSW⁺07, TSB03, YB06]. **Large-Scale** [ATV01, BADG00, KS02b, ZWL02, BSW05, BTWGvBW07]. **large-step** [AHNS09]. **Large-Time-Step** [Gui02]. **Large-Wave** [DF00a]. **Laser** [DGH02, DNS08, DDGS09, GHB03, HDBW05, KSHS08, LDL⁺09, Sau04]. **laser-plasma** [GHB03, KSHS08, LDL⁺09]. **late** [CL07b]. **lateral** [KJ09b]. **Lattice** [BTC05, BLW01, BdLL01, Del02, DC02, FH00a, FH00b, FSM⁺01, GS03b, Gua00, GSW00, HDC02, HHL00, IYI⁺02, LL03a, LLQ⁺02, MSYL00, MHS02, MAL09, PR00, RMSB09, SS05c, Sun00, VLB09, XH03, vdSE00, AST09, AL08, ABZ⁺08, BKS07, BYS08, CA06, Del03b, DCK08, FG05, FM04, GM04, Gos04, GM06, HvHHS05, HNGB04, HHC08, ISNY05, IOTK04, IF09, JKL05, KY08, KMV03, KPB08, LLP07, LL03b, LL05, LLC06, LT09b, MRS09, MR07c, NCS03, PL09b, PSCQ03, PSC04, PSC⁺06, PA07b, PPB09, RSM05, SCT09, SPT05, SLC07, SS03b, Sof09, TBJ⁺09, VCG03, WWC07, WS09, YZ07, YGL05, YF09, ZK05, ZSC07, ZSC06, ZTPM05]. **Lattice-BGK** [FH00a]. **Lattice-Boltzmann** [HHL00, BKS07, PA07b]. **Lattices** [vdSE00, CLL07a]. **Law** [FGG01, VPA02, De 04, ÉGP09, FS06, GD07a, LLZ07, MY06b, Mil06, Mil07]. **Laws** [Asl01, BJ00, CDKP00, CRD02, FMO00, GC01, KT00a, LL00, Noe00, Sti02, TS01, Wan02, WL02, YL01, AKLMP09, BAFL09, BBCT09, BCCD08, BP03, CLG07, Cap08a, Cap08b, CT08a, CP08, CGKM06, CD07, CkM07, DET08, Edw06, FS09, GV07, Gui05, Hub07, JR09, JTL09, KI05, LL03c, LVW06b, ML08, Mil04, PDL09, RLZ03, RCD05, SW04b, SYG06, SWL06, SZLW06, SR09b, Tak06, TT04, TT05b, TT06a, TT06b, THS07, VCZS04, WZL04, WG09, vDZ06]. **Lax** [KOQ04, LCS09]. **Layer** [DC01, Hu01, Hu05, Str01b, Vay00, Vay02, AK06b, AC09, BHNPR07, CGRGV⁺04, CLL⁺07b, GKD09, HO08b, HLL08, MT07a, NK08, RJ04, ST04, Tau07, Zhe07, ZT03]. **Layered** [Hig02, AC05, And09, BFT09, Hig05, IQT08, SCT06]. **Layers** [Bal02, ELW01, GZ01, PPC00, TC01a, BFJ03, DH07, Doh09, FE04, GGOB04, LP06b, Nat06, Rah04, SJHM09, SP05b, ZGG03]. **LBB** [AGP01, CHPR09]. **LBE** [GLLX08]. **LBM** [SL07a]. **LDAF** [WZ07, Boy06]. **leaf** [Dic08]. **leaky** [ZK05]. **leaping** [BCK09, RE07]. **learning** [Kou07]. **Least** [Cap09, PG02b, AMSZ07, BT05, BT06, BP04a, CSO09, DI09, GS03a, GNNB08, HV03, HK08a, HMMR04, HLMM07, HdGKG08, HY09, HY11, KH09, NCS03, PR03, PR04b, Pon06, Pon07a, Pon07b, PR06, SL07b, VB09, ZKY05]. **Least-Square** [Cap09]. **Least-Squares** [PG02b, AMSZ07, BT05, BT06, BP04a, DI09, HV03, HK08a, HLMM07, HdGKG08, HY09, HY11, KH09, PR03, PR04b, Pon06, Pon07a, Pon07b, PR06, ZKY05]. **Lebesgue** [Hei05]. **Legendre** [AQ00, APQ03, Boy03, Boy04, CDI09, KOQ08, KT03, PSD09, SS01a]. **Legendre-pseudospectral** [Boy03]. **Legendre-transform-based** [KOQ08]. **length** [AKP07, JG09]. **Level** [Asl01, BCMO01, CT04, CBGI09, CMK⁺01,

CBMO02, Cho00, EFFM02, HMS08b, Hig02, KAIN01, KLvBvL02, LLdlP⁺00, MS08a, OF01, OS01, OCK⁺02, PS01, SW00, Set01, SJ02, SP00, TMB07, AS03b, AS05b, AJT04, ÁDIM09, AA06, AHMS03, BHR04, BHSV07, COQ06, CM06, Che07, CSL08, CCT05, CQRW05, CC08b, DMBS05, DMP08, DL03b, EHST03, EHS⁺08, ETT05, FSS03, GGS09, GCNB07, Hab04, HMS08a, HKO07, Her05, Her08, HK05, Hig05, JVV07, JCT07, KH07, LW07, LW09, Liu09c, LTWW07, LLC⁺08, LTL⁺09, LTM09, ML06a, MRC06, MR06a, MGCR07, Min04, MG07c, MG07d, MV06, NJLA06, NLT07, NT07, OK05, OKZ07, PHKF06, QL04, RR07, SS06a, SYC09, SAKDJ05, Sme06, Spe05, Sus03, TZ06, TZ07a, TZ07b, TBJ⁺09, Tow07, TU04, WLKW07, WSTW09, WYS09, Wen09, XLLZ06, YJL⁺06, YSS05, ZGK09, ZLAC05, ZL08b]. **level** [vdDA06]. **Level-Set** [Asl01, CBMO02, Cho00, KLvBvL02, PS01, CBGI09, AJT04, ÁDIM09, AA06, Hab04, KH07, MG07c, RR07, Spe05, XLLZ06, YJL⁺06, YS09, ZLAC05]. **Level-Set-Based** [LLdlP⁺00]. **level-set/volume-of-fluid** [YJL⁺06]. **levitation** [IM05]. **Lévy** [LLTA07, PC06a, Pav07]. **Li** [GIA⁺07, MCP03, GIA⁺08]. **Li-ion** [GIA⁺07]. **library** [SWB⁺06]. **lid** [AK05]. **lid-driven** [AK05]. **Lie** [San03]. **Lifshitz** [dSM05]. **lifting** [KRT⁺09, WG09]. **Light** [KL06, SS01b, deM02, BMK⁺06, BBK06, GGRS08, JD04]. **Light-Cone** [SS01b]. **Light-Emitting** [deM02]. **Lighthill** [ZSWW03]. **LIGKA** [LGKP07]. **like** [DLS⁺00, HO06, LNXNTX09, MEG02, Mil06, Mil07, PL09a, SB06a]. **likelihood** [Sti05]. **Limit** [BKR⁺01, DW00, Asl04b, BPM06, Boy05b, CWL08, CS04, CDV07, DP08, FPK08, JLOT05b, JLOT05a, LW09, Lur07, PSZ09, SD05a]. **limit-cycle** [BPM06]. **limitations** [CP06a]. **limited** [BDS07, CTT08, GD06a, LXM09, LLGL07, Ols07]. **Limiter** [BSB01, RM01a, CT09, CS08c, KT04, LBL07, MOG09]. **Limiters** [BL01, Kri07, Kuz06, NJX08a, QS04, Sof09, ZQSD08]. **limiting** [Bet08, KK05d, ML08, YKK08]. **Limits** [MHS02, Del03b]. **Line** [Gui02, POS00, RRL01, Khe04, MBS03, VP09b, ZGK09]. **Linear** [AL01, Ben02, BBCT09, CP00, KKGL01, Mav02, MYW07, NC01, QRHD00, RC00, SZ00, TS02, WC01, AMR06, AC09, BAYZ08, Bal08, BAR08, BDRT09, BM05, BB07b, BdCB09, BDCG03, BSP06, BCI⁺08, CFS09, Cap08c, Cap09, CWJ07, Cha07b, CN05, CP06b, CP06c, CFJ09, DK06, Dem04, DTSC04, DC08, DK07, GZ08, GR04, Hau08a, Hau08b, HK08c, HR07, JHZ⁺09, KT05, Lab09, LGKP07, LZL03, LM08b, MPD08, MGS09, MJ06, NPH09, Ngu07, NPC09a, RH05, Sam09, SDM04, SLG⁺03, Thö04, TT05a, TT05b, UL06, VCT07, WT07b, XLS09a, YJ06, YKG04, YH07b, AGT02]. **linear-scaling** [SLG⁺03]. **linearity** [KSW03]. **linearity-and-bound-preserving** [KSW03]. **Linearization** [GV02, Hun01, Kuz09]. **Linearized** [Hu01, MT03, MDR07, SM06a, BKST09, Hu05, Nat06, PGN08, Rah04, SB09]. **linearly** [BAR08, CJR04, Jao07, Tok06a]. **linearly-perturbed**

[CJR04, Jao07]. **Lines** [DK02a, KKGL01, AINR03, Car09, JH08, Spe05].
Lineshape [KHV01]. **Link** [NTO⁺07]. **linked** [KM08a]. **Linux** [CD04].
Liouville [JW06, JY08]. **lipid** [FK06, MK08a]. **Liquid**
 [DSS00, EKK02, JLCD01, LS02b, CPR05, Cha09, Chr03, CB09, DDK06,
 GGS09, GKV09, HP04a, HL07c, IM05, LMV04, LS08, LL06a, LR07, LLZ07,
 LL07, LL08a, RGS04, VGL⁺07]. **liquid-liquid** [CB09]. **Liquid-Vapor**
 [JLCD01]. **Liquids** [KS02b, HSL08]. **list** [DTS05a, DTS05b]. **lithography**
 [BBK06]. **Load** [DPR00, JJGL06, JJGL07, MG05a]. **Loading**
 [CVB00, GVT01, KfV07, Li08b]. **LOBPCG** [HL06a]. **Local**
 [Alb00, BC02a, BS09b, DI02, GTD01, JL02, LSY04, MTH08, Min04, MHS01,
 MV08, OV00, OMG02, QS02, RC09b, SC08a, VDM⁺02, VC00, XSS07,
 XS05b, YZW05, AMR06, BC05, BBD04, BF08, BG05b, CBH03, CFR08,
 CLS09b, DSM09b, DGRS08, HMOG08, HZ08, HAD06, ISNY05, JW06, KB04,
 KKO04, Lap04, LSA06, LSJA05, LY06, LGM08, Ma05, MCGV04, MPFC08,
 Pav07, PVR07, SLG⁺03, SPLM09, SRX07, SR09b, Tsu06, UBRT07,
 UPKN09, YE07, ZHSS09, dTDI⁺07]. **local-orbital** [SLG⁺03]. **Localization**
 [ZGG03, Gra06a, HNF07, KZWY09, Lar09, ST03b, TB09]. **Localized**
 [KL08, DDH05, DLD08, YA05]. **Locally**
 [BS08b, CLS04, FWW04, HEML00, Str07a, AT08, FHW07, OK07b, TZHT04].
locally-conformal [OK07b]. **Locally-corrected** [Str07a]. **locally-refined**
 [FHW07]. **Locating** [TK02, SS09b]. **location** [HSZ04]. **locking**
 [LSJA05, MP07a]. **locking-free** [LSJA05]. **locomotion** [HSW07]. **Loève**
 [BP04a, ST06, ZL04]. **Logarithmic** [Mai01]. **logging** [GH08b]. **Long**
 [FPC⁺00, Wee02, ZSW03, CWL08, FT09, HPS⁺06b, LLL07, SK04a].
Long-Range [FPC⁺00, FT09]. **long-term** [SK04a]. **Long-time**
 [ZSW03, LLL07]. **long-wave** [CWL08]. **Loop** [SS01b, GPL05]. **loosely**
 [GGCC09]. **loosely-coupled-type** [GGCC09]. **Lorentz** [Tót02]. **Lorenz**
 [FVE04]. **losses** [HR08]. **lossless** [LKD04, Rem06]. **lossy** [LZC04]. **Low**
 [BKR⁺01, BISS01, FS01, FH00b, Nic00, POS00, RV00, SC01, WPM02a,
 Ano04z, AG09, BCDW06, BDHN09, BDR⁺04, BBMB07, BO09, BB04b,
 BEG03, BB08b, CLB08, Cha09, DH04, Del07, DBBP08, DKS⁺03, DST07b,
 EG08, HH07c, HK04c, Kok09, LG03a, Lee07b, sLwG08, LM08c, LQ06,
 MEKS03, MDR07, NMM⁺07, NMH⁺07, OTCM08, OVG07, PDHP07,
 RVDM09, RB09b, SDGX07, SM06a, SMS04, Soc03, SFMP06, TSG⁺06,
 TMD⁺08, VGCN05, XH03, XLP05, YS07a]. **low-cost** [LQ06]. **low-diffusion**
 [MEKS03]. **Low-Dimensional** [RV00, VGCN05]. **low-dispersion** [Kok09].
Low-Energy [SC01]. **Low-Energy-Density** [BKR⁺01]. **low-frequency**
 [BCDW06, DH04]. **Low-Mach** [Nic00, LG03a, RVDM09, XH03].
Low-Order [BISS01, AG09]. **Low-Speed** [FS01, SMS04]. **low-variance**
 [HH07c]. **lower** [MM09]. **Lowest** [Mit00, Lab09]. **lowest-order** [Lab09]. **LU**
 [LZL03]. **lubrication** [DM03]. **Luo** [TK04]. **LWS** [DF00a].

M [LM03a]. **MAC** [IQ08, LW01]. **MacCormack** [HT00b, HT00a, HF01].
MacCormack-Type [HT00b, HT00a]. **Mach**

[NVD05, VSW06, Ano04z, BDHN09, BDR⁺04, BTW03, BEG03, CLB08, Del07, DBBP08, DST07b, FH00b, KKM08, LG03a, Lee07b, sLwG08, LM08c, MDR07, NVD07, Nic00, RVD09, RB09b, SBGK00, SM06a, SSD00, SFMP06, TSG⁺06, TMD⁺08, WPM02a, XH03, XLP05]. **Mach-uniform** [VSW06, NVD07]. **Mach-uniformity** [NVD05]. **machine** [Kou07]. **macro** [BEA09, FT06]. **macromolecular** [Lap03]. **macromolecular-crystal** [Lap03]. **macromolecules** [IH04]. **macroscopic** [GMAj09, HA06, ZRS06]. **Magic** [MT01]. **Magnetic** [Del01, GG00, SHWW00, AvdB04, Bal09, BCDW06, BCM⁺07, DDSV09, EPW08, HR08, IM05, IDD04, JOS06, KM08b, KB04, LKD04, LCG07, MSP⁺06, NMM⁺07, NMH⁺07, PH09, SDGX07, SHS08, SS04]. **Magnetically** [OL01]. **magnetised** [GYKL05, GLT07, GL09b, SG06]. **magnetization** [dSMF09]. **magnetized** [GGOB04, Mot08, PPCW06, UPKN09, VVM05, VTC⁺07, XCRX08]. **magneto** [Li05, Li08a, VOD08]. **magneto-hydrodynamic** [Li08a]. **magneto-hydrodynamics** [Li05]. **magneto-static** [VOD08]. **magnetogasdynamics** [Gom08]. **magnetohydro** [LW04]. **magnetohydro-dynamics** [LW04]. **Magnetohydrodynamic** [DCV⁺01, BT07a, FJ09, GLN06, JBF07, KLM05, LTC07, Liv07, MV06, OPML07, ODCK07, Ser09, SK07b, dCNHSD07]. **Magnetohydrodynamics** [Bal01, Del02, GTD⁺02, Jan00, TX00, Tót00, Asl04b, Bal09, BRDM09, GLLN09, HT07, LFSS07, LD09a, LD04, MK05, NN09, PCP08, QW05, RSW06, SGG⁺04, Tor03, TMG08, Waa09, ZK06, Zie04, vDZ06]. **magnetorheological** [KM08b]. **Magnetotelluric** [HS07a]. **Maintaining** [PHKF06]. **maintenance** [GS09d]. **Management** [OK04, TS07, WGCR07]. **manifold** [GKE04, HE07]. **manifold-mapping** [HE07]. **manifolds** [BRC⁺09, BBK07, KG03, MSO04, RBL04, SK07a, VGCN05]. **mantle** [FKK08, KKS05]. **manufacturing** [SS08]. **Many** [ZD00, CLMRP08, FHLK05, LM08a]. **many-particle** [FHLK05]. **map** [Gui03, HW05, Hel09a, dFJS09]. **Mapped** [HAP05, BRB03]. **mapping** [HE07, LQX06, MSO04, ZL08a]. **Maps** [LTZ01, TB00a, BBK07, YLA08]. **Marangoni** [LS02b, TC02]. **Marching** [Set01, LG03b, LG04, YBS06]. **marker** [AMS04, CB09, RB05]. **markers** [AMS03]. **Markov** [CVE06, GL09a, MDJS07]. **MAS** [KHV01]. **masks** [BBK06]. **Mass** [Lio00, OF02, BYS08, BT05, DBS06, HLMM07, KH09, KJ09b, LLGL07, RC09a, YZF07, ZH04]. **mass-conserving** [DBS06]. **Massive** [DPRS01]. **Massively** [KP00, SLG⁺03, CHB09, HVAC09, KRT⁺09]. **MAST** [AT09]. **master** [HL07a, IM07, MK07]. **Matched** [Hu01, Hu05, Vay02, YZW07, BFJ03, BHNPR07, CLL⁺07b, DH07, Doh09, GKD09, GGOB04, HLL08, Nat06, OK07b, Rah04, RJ04, ST04, SP05b, YW07, Zhe07, ZW06, ZZFW06, dHRvdB07]. **matching** [Bor07, JJGL06, JJGL07, LVL05, NDT06, SB06c, ZW04]. **Material** [Bar02a, DDG02, ZZVM08, AS03b, AS07, APT09, BSKH07, BFT07, BG09, CD03, DS08, GA09, Khe04, LKY03, LBL04, MU09, Ols07, PP04, SGFL09,

SC09a, WG08, XD07, ZC09, ZW04, ZD08]. **material-order-independent** [SGFL09]. **Materials** [CL00b, CB02, EH02, GM01b, HLS01, OV00, RV00, BZ04, CDS04, CP04b, CP05, EPW08, GFS08, GL06, GMO04, YU05a, Zad08, ZB07].

Mathematical [Ano04z, BTFY01, CHM08, GS02, HM08, HSW07, RBT03, LD06, SMP09]. **matrices** [BPS03, BT07a, DBB06, WR09]. **Matrix** [Bor00, BS00e, Edw00, Lin01, PCS⁺09, PC02, SWTM01, Yon01, YMF01, Chu09, DMG04, HJFW04, HL04, Hau08a, Hau08b, HSZ04, LAKD08, LBS⁺04, LZH⁺07, PSH⁺08, SBA07, UL06, Wal03]. **matrix-free** [LZH⁺07]. **Maximum** [GG09b, Rom02, Abr06, Abr07, Abr09, KSS09, Sti05]. **Maxwell** [ACS00, ACLS03, BL04, BL09a, BLG⁺08, BHvdV06, BS06b, Bra08, CD03, CW03, CXZ09, CJ07, CLS04, CFP06, CFJ06, DR06, DD05, DDH01, DLP08, DF00b, DDFT09, Eli03, Eli07, FH03, GD07b, HH07a, Hag07, HK04a, HR08, HLO08, HW02, HJM⁺05, HGB⁺03, HMM07, LZC04, MCCT02, MPFC08, MOS⁺00, Nys02, ON08, PAD07, Rem06, RLB02, RRW05, RB02, SZB⁺07, SWZ03, SL07b, SA09, SP05b, Tsy04, VPMC04, WZ02, Wel07, XCZ02, XD07, YP01, ZW04, ZT07b, de 00]. **Maxwellian** [CVB00, GW06]. **MCC** [CN08]. **ME** [FWK08]. **mean** [CB07, DSM09b, Hu05]. **Means** [BM01a, BHR03, BHR06, Heu03, MG05a]. **Measure** [RS02]. **Measurement** [TG04, CP06a, MSB07a]. **measurements** [CSC⁺08, DGF09, HKS09]. **Measures** [OB06]. **mechanical** [DDD05, DP08, NTO⁺07]. **mechanical/molecular** [NTO⁺07]. **Mechanics** [Bar02a, BS01, BS00d, OP02, Bod06, BG05b, DF07, FDD07, GPL05, HLRZ06, Kou07, LNXNTX09, MK08a, Mil04]. **mechanism** [PK03]. **Mechanisms** [KLN⁺01, RRV01, LTWW07]. **Media** [CS01c, CS00, CGSS00, LMSV00, LLN00, WLE⁺00, ZF02, AT09, AZ06, BQQ09, Bar04, BFT09, BS06a, BH04, CD03, CJSS08, CPG04, CDE06, FWP09, GZ07a, GZ09, HJ09, IQT08, JLT06, KSH⁺06, KT06, KT07, LTZ03, LMS08, LH05b, LJ06, MZ08, Mar06, MJT06, MN06, MHI08, MP05, MGS09, NL08, PC06a, Rem06, TJLT08, XD07, YE05, YE07, YH07b, ZL04]. **mediated** [MSP⁺06]. **Medium** [CY00, BL09a, BW07, FG04, FG05, GS09a, Hoh06, KK03a, QLK07, RM07]. **MEL** [Wan05]. **Melt** [LS02b, ZGT06]. **melting** [Men04]. **melts** [HLFB07]. **membrane** [CKPW07, LWP⁺09, LS08, MK08a, MSP⁺06, TLL⁺08]. **membrane-mediated** [MSP⁺06]. **membranes** [DLW04, DLW06, FK06]. **memoir** [Bra04]. **memory** [HJFW04, LH05b, TS07]. **MEMS** [AA09, MK04b]. **MEP** [Rom07, TPR05]. **merging** [Hew03, QLS09]. **meridional** [TVMR03]. **MESFET** [GS06a, Rom02]. **Mesh** [Alb00, Bal01, BV05, BMR01, BMRS02, CH01, CBL01, DGH02, Dys01, FR02, Hua01a, Hua01b, ID04, LTZ01, LTZ02, LK09, MR00, MR02, MP07a, MGGH00, Mav02, OGV02, Per00, ZSP02, Zha02, AZB09, AFGM07, AEP04, BFC04a, BFC04b, BS03a, BL05, BCGR05, CR07, CGDT09, CJ04, CBH03, CBI⁺04, CHCOB09, CFJ06, DW09, Dwi08, FL06, FYH⁺06, FM06, HT07,

HZ07a, HS06, HS08a, HG03, HS03b, Hua05, HMR08, Hum05, ISNY05, JS05, KK09, KAA⁺07, KPP07, KE09, LC06a, LK07, LMX⁺08, LD09a, LB03a, LP04a, LL04b, LLOT06, LKO05, MJ09a, MC07b, MSB07b, NA08, NMH⁺07, Ni09, NLLE06, PSCB08, PDHP07, PL09b, PN03, PCP08, PL04, PC06b, QS07, QLS09, RA09, SWB⁺06, SY09a, SHP07, SRX07, TZHT04, TLK07, TTZ03, TFD06, TK04, Wal03, WT07a, WT07b, WLC⁺06, YMT⁺04, YMWM06]. **mesh** [YF09, YT07, ZJW06, ZJWC08, ZFM08, ZSC08, vDZ06, vZdBB07]. **mesh-based** [SHP07]. **mesh-dependent** [AZB09]. **mesh-free** [YMT⁺04]. **Mesh-Size** [Zha02]. **Meshes** [DLS⁺00, Han00, Her00, MVM02, ML01a, MG02, MP01b, MHS01, TS02, Vas00, VG02, WS01, WB01, ZYC02, AK06a, AS07, AB05b, AT05b, BES07, Ber06b, BM07, Cap08a, CKvT07, CDDL09, CBGI09, CSO09, CS06, CS07d, DHOT09, DMR09, DK07, DKTT07, DBTM08, DZ09b, FM08, FHW07, GL08, HO08a, HLO08, Her09, JJGL06, JJGL07, JMC03, KA05, KOQ08, KI05, KL08, KL04, LMS04, LSS06, LSSV07, LSV09, LNXNTX09, Mai09b, MB04, MY06b, MP05, NJX08b, PS07a, RAB07, RAD07, SPM03, SP06b, THD09, TAL09, VGS04, XLM07, YA05, YS07c, YS08, ZQSD08, dVGLM09]. **Meshfree** [ZWL02, CYS06, KYLB07, ZKY05]. **meshfree-Cartesian** [CYS06]. **meshing** [BGR08, DS05a, YZF⁺06]. **Meshkov** [LSD07]. **Meshless** [Ma05, BZLN09, KJ09a, LSJA05, SB03, YYF09, YCL05]. **mesoscale** [GR08]. **Mesoscopic** [HKV01, Hor06, BL08, FK09a, HA06, ICO04, KMSH08]. **metabolism** [XDB09]. **metal** [AIR03, AINR03, MC06b, MLFG06]. **metallic** [ES03a, MC06b]. **metals** [GKV09, IM05]. **Method** [AKV00, Alb00, ACS00, AQ00, AP02, BR01, BC02a, BJ00, BJ02, Bar02a, BC01, BMR01, BS00c, BCE⁺09, BM01b, BE02, CFA01, CL00a, Cal02, CHR01, Car02, CWT00, CGP02, CMK⁺01, Cho00, Coe02, CPP02, CM00, Cor00, CB02, Dar00b, DV02, DPR00, DFT01, DGP00, Dri02, EH02, EKK02, ERT02, EFFM02, EAY01, Fed02, FBFF00, FP02, FR02, Fre00, FK02, GM01a, Gen01, GW02, GMB01, GHG01, GK01, GP00b, GBGM01, Gui02, Gut00, HHCL01, HLS02a, HMM02, Han00, HSK00, HDC02, HHL00, Her00, Hig02, HK02, HF01, HB02, HCG01, HA02, HEML00, HGM01, IYI⁺02, IFZ01, JC02, JLCD01, JTB02, Jan00, JK02, JM00, Kan02, KS02b, KB00, KK00a, KK00b, KAIN01, KC00, KKC01, KJ01, LP00, LLH02, LL00, Lay02, LKNG01, LRN⁺02, LL01a, LL01b, LK01, Lin01]. **Method** [LFK00, LS00, LMS02, LLQ⁺02, MR00, MR02, Mac01, MD02, Man02, MKM99, MEG02, MC00a, MCJ01, MC09, MSYL00, MHS02, MC01, MC02, MKR00, MPC01, MPC02, Myo01, NFK01, Noe00, OMK09, PR01a, PKvdB00, PKP01, PS01, PL01, PB00, PK00, Pop00, PM00, PO01, QV01, QL01, RH01a, Rem00, RW00, RRL01, RR02, RH01b, RMO00, SS02, SWTM01, SY09b, SJ02, SCD00, SFW00, Sti02, Str00, Str01a, Stu01, SB02, SP00, SPW⁺00, TK00, TX00, TMB07, TR02a, TB00b, TC01b, TBE⁺01, TRL01, UMRK01, VB00, VCTS02, VR02, VC00, VSMW01, WPM02a, WPW02, WGCE01, Wan02, WL02, WDM01, WW00, Whi00, WA02, WS01, XCZ02, XK01, Xu01c,

Xu01a, YXU01, YSC01, Yon01, Zha02, ZWL02, ZYC02, ZH01, ZTZ02, ZCMI01, ZP02, ZKK01, ZRR00, vdVvdV02, AE03, AV05]. **method** [AH08, APR09, AS09, ADE⁺08, AR08, Alb08, AS05b, AJT04, AA06, AL06, AEP04, AZC05, AC05, AMP09, AKLMP09, AZ06, ADS03, ACLS03, AKP07, AMSZ03, AMS03, AMS04, Aza07, Aza09, BIW04, BIW08, BFB08, BO05, BSKH07, BHS09, BHL⁺04, BMN05, BL04, BW06, BHL07, BS08a, BYS08, BC05, Bar04, BB08a, BGN07, BFT07, BFT09, BDHN09, BZ04, BHR03, BWLM09, BL08, BS04b, BM05, Ber06a, Ber04, BLG⁺08, BS04c, BCM09, BG05a, BT06, BGS08, BS04d, BS05, Bor07, BDCG03, BSLN09, Boy03, BRB03, Boy05a, Boy06, BP08, BEG03, BB08b, BG05b, CD03, CDJ07, CJSS08, CCG08, CLG07, CLL07a, CP03a, Cap08c, Cap09, CWJ07, CTW⁺08, Cec05, CR05, CR07, CFR09, CKLS05, CA06, Cha07a, Cha07b, Che03, CL03a, CP03c, Che04, CC07, CELS07, CLTA07, CL08d, CX08, CXZ09]. **method** [CCG⁺06, CS07b, CS07c, CHG⁺07, COER07, Chu09, CJR04, CS03, CS04, CY05, CFP06, CGKM06, CSML06, CC08b, CK07, CFR08, CB09, CCF⁺05, CFP08, CkM07, Cui09, CB07, DMHP07, DM03, Dar02, DH04, DK06, DDM07, DCF⁺08, DC07, DUEB07, DR09a, DMP08, DFV08, DTMS06, DW09, DLT09, DDH05, DLD08, DGMN03, DS09a, DG09, DLP08, DF04, Dom08, DGJ03, DLMK04, DHM07, DND06, DSB06, DD03a, DD03b, DCK08, EE08, ECL02, Eld07, EB06, EULM03, Fan08, FCJ08a, FCJ08b, FNS07, FP08a, FRS08, FS09, FS04, FEL⁺05, FM04, FM05, Fen06, FYH⁺06, FL09, FE04, FD07, FL07, FWR07, FHLK05, FWW04, FLZ09, FD09a, FWK08, FLM08, Fox08, FG07, FH03, FY07, FT09, FKK08, GZ07a, GT09b, GMD03, GFG09, GS03a, GS05b, GS08, GGS09, GBC06, GS07, Gel06]. **method** [GMD07, GFR09, GCNB07, GS05c, GG09a, GPF03, GW05, GMAj09, GWF⁺07, Gom08, GGRS08, Gre04, GH02, GP05, GHMP07, Gri09, GKV09, GB08b, GLLN07, GLLN09, GS09c, GD06b, GL08, HPS06a, Hab04, HH07a, Had05, HS09a, HBHJ08, HJ09, HLFB07, HT07, HL04, HZGB04, HZGB05, HP04a, HSQ03, HWL08, HKM07, HPD09, HJKO08, HMPR07, HKG08, HL07a, HW05, HLO08, Her09, Her05, Her08, HAD06, HK05, HK08b, HK08c, Hig05, HP04b, HL05, HS08b, HS08c, HY09, HY11, HK04b, HKAH06, HA06, HA07, HSL08, HT03, HLX06, HSS07, HSC09, HST09, HS07b, HF08b, IX07, IX09, IK07, IKS⁺09, ISNY05, IOTK04, IDD04, JH06, JD09, JRS05, JL04a, Jao07, JBF07, JVVS07, JLT03, JD04, JLT06, JL09, JH08, JX06, JC06a, JX07, JHZ⁺09, JLL⁺06, JM05, JS07, KKM08, KA05, KE06]. **method** [KK03a, KHdT⁺08, KW08a, KIH09, KIH09, KY08, KZ04, Khe04, KGJ05, KC06, KH07, KK07, KDF07, KL04, KvdVvdV06b, KfV⁺05, KAS06, KMS04, Kok09, KS09, KT03, Kro01, KSW03, KLSW09, KB08, KSS09, KSGF09, KLP⁺09, LKD04, LTH08, LL09, LG03a, LG09, LY07a, LL03a, LLP07, LSL08, LH05a, LFSS07, Lap03, LP07a, LGHD08, LS03, LSA06, LKP06, LWP⁺09, Lee03, LVL05, Lee07b, LMX⁺08, LZT09, LKE04, LTE07, LM08b, LZ09b, LZ09a, LCH03, LCW04, LHZW05, LS07, Li08a, LSZZ08, LN09, LLOT06, LJS08, LJW09, LR07, LT09a, LF05, LMS08, LSV09, LKY03, LKW05, LKO05, LKMU05, LY06, LVW06a, LVW06b, LLTA07, LV07, LW07, LP07b,

LX07b, LW09, LKMK09, LNXNTX09, LS09, Liu09c, LM03b, LD04, LHGF04, LHGF05, LJ07, LS05b, LRS09, LCM07, LJ06, LBL06a, LBL06b, LBL07, LTWW07, LBL08, LMZ⁺08, LLC⁺08, LTL⁺09, LMK09, LZH⁺06, LZH⁺07].

method

[Ma05, MY06a, MZ08, Mac07, Mac03, MWM03, MCM04, MN09a, MKM04, MKOW04, MRC06, MR06a, MGCR07, MKLU05, MRS09, MvW08, MC06a, MCG08, MB04, MS04, MY07, MSJ07, MU09, MP08, MKL06, MP03, MK08b, MZ07, MESV09, Mil08, Min04, MG06, MG07d, Min07, MR07c, MDB⁺08, MDM03, MT07b, MR06b, MMPB07, MHdB07, MK06, MT08, NLF03, NTO⁺07, NPH09, Nas08, NA08, NBLQ09, ND04, Ngu08, NPC09a, NPC09b, NJX09, Nik06, NCS03, NG06b, NGvdWS09, NLT08, OK06a, OSK09, ODAF07, ORM06, OK05, OKZ07, OJW06, OCFF08, PDHP07, Pap08, PS03a, PPCW06, PSCQ03, PSC⁺06, PN03, PS07a, PLS⁺09, PFSL07, PK05, Pon09, Pon05, QW05, QA09, QL04, QS04, QKS06, QS07, QLS09, RB05, RMB07, Rah04, RAB07, RSM05, RE07, RE05, RBS06, RSW06, RMSB09, RRW05].

method

[RJM07, Ros06, Ros03, RBK09, RW03, RM08, RC09b, Ryc05, RJ04, Sac07, SB06a, Sam09, SROCF03, SROCDPFF05, Sar03, SFDL07, SZB⁺07, SAK05, SWG08, SHS08, SBCL06, SB06b, SSB07, SWK06, SF03, SM04, SCT09, Sha05, SFE07, SH07b, SL04, SDD07, SLG⁺03, SMS04, SY09a, She08, SPT05, SL07b, SL07a, SAKDJ05, SLC07, Shy06, SSND03, SS07b, SK04a, SHTB09, SCW⁺09, SM06b, SPLM09, SDT08, SK04b, SCRL08, SWL06, SZLW06, SXyWX09, SR09b, Sus03, SSH⁺07, TM07, TZ03, TZL05, TC07a, TOZP03, TLK07, TZ07b, TLL⁺08, TLK09, TTZ03, TJS03, THL06, Tau07, TBT⁺09, TT09, TPV07, TBJ⁺09, TMD⁺08, TKH09, TOY09, TW07, TC07b, TG06, TG08, TW03, TU04, TF03, UTBV03, Uhl05, UPKN09, Utn08, UYK⁺04, VTC⁺07, VGCN05, VW02, VOD08, VL07, VLW07, VBL07, VGPL09].

method [VVS08, VBJ08a, VBJ08b, VK05a, VGZB09, VGBZ09, VSW04, VSW06, Vik03, VK05b, VHI05, Vol04b, VCM00, WK07, WFTS05, WG08, WK05, WK04, WZL04, WW04, WL06, WT07b, WLKW07, WXG07, WTL08, WGS⁺08, WSTW09, WFC09, WYS09, WZ09, WGRA09, WZ07, WKG06, Wen06, WWK05, WA08, WKL07, WKB07, WZ03, WMH07, WS09, XMP07, XH03, XSG04, XW06, XLLZ06, Xu08, XHC08, XSL09, XLS09b, XD07, YMT⁺04, Yam05, YZ07, YM07, YYF09, YU05a, YJL⁺06, YFLS06, YP06, YS09, YZLH09, YLD09, Yeh07, YC06a, YC06b, YH07a, YSO07, You06, YA05, YCL05, YJF⁺06, YSS05, YGL05, Yu05b, YZW05, YSW06, YS07b, YZW07, YW07, YF09, YS06, YT07, YFBH07, YH07b, ZGT06, ZGK09, ZWS07, ZKY05, ZP05, ZEA06, ZYL⁺06, ZT07a, ZZ07, ZSC07, ZB07, ZZ08, ZZVM08, ZL08a, ZKL⁺07, ZFM08, ZZ09, ZRS06, ZP06, ZSB⁺08, ZSP08, ZHSS09, Zho07].

method [ZW06, ZZFW06, ZL08b, ZTPM05, ZQSD08, dVGLM09, dSMN⁺04, dTDI⁺07, vBK03, vDZ06, vLAvdV06, vDBG09, vdVX07]. **method-based**

[DLD08]. **methodology** [BdCB09, FK09b, GZ08, GS09b, KDOO05, YC09a].

Methods [AL01, AGP01, Azm02, BKR⁺01, BMRS01, BMRS02, BM01c, Boy02b, BS00e, BCM01, BSB01, CL01c, Cod01, CKS00, CMOV02, DCS00,

DDH01, ELC02, ED07, FVOMY00, FF02, FPC⁺00, GP00a, Gir00, GHW02, HH02a, HMS08b, HW02, HKV01, HLS01, Jan00, KLN⁺01, KR02, KMA⁺01, KKR01a, KKR01b, KM00, KMS02, KHV01, KMJ01, LOK01, LM01, LTZ01, LLdIP⁺00, hLA01, LMSW02, Mac00, Mav02, Mit00, ML01b, NR01, NC01, OKL01, OF01, OS01, PD01, PRT00, PX02, PW00a, PW00b, PW01, PWS⁺02, Rei00, RXH02, RM01b, Saf00, San01, SW00, Set01, SMP01, TNGH02, TWS02, WK01a, YC02, APTJ⁺04, ABL05, AS03b, Ain04, ABRR09a, ABRR09b, AT05a, BB04a, BSW03, BCL06, BY07, BBHM09, BZ08, BS08b, BHR06, BB07a, BC08, BS07, BT05, Bor03, BKLL04, BS06b, BLM03].

methods

[BDS07, BRB03, BCGR05, BHR04, CT09, CLS⁺06, CL08a, CSC⁺08, CGMS03, CGMS06, CQO04, COV04, COQ06, CM06, CLS05, CL08c, Che07, CLL⁺07b, CJ07, CR09, CLS04, CWD08, CFJ06, CC04, CD07, CP04c, CF04, CFJ09, DSM09b, De 04, DGH08, DL04, DD09, DLP08, DL03b, ERVE09, EGHE06, EHD08, Eg07, ETT05, ES06, EN06, ÉGP09, FSS03, FWP09, FD03, FR03, FPT05, Fou06, Fox09, Gab07, GT09a, GCGE03, GLMH09, GK03, GSV06, Gir06, GR08, GR04, GKL03, GD08, GLLX08, GF05b, HD07, HMS08a, HKO07, pHL09, Hel09b, Heu03, HHMK05, HNGB04, HL06b, HyLL07, HJL09, HL07b, HS04, HJM06, HJM07, HMR08, HRV08, HR07, IF09, JHSZ07, JSCZ08, JW09, KCH06, KCGH07, KOQ08, KTD03, KKL04, KK05c, KK05d, KPB08, KYK07, KvdVvdV06a, KWBH09, KK04, KAS08, KS08b, KKO04].

methods [Kri07, Kro05, Kro02, KWD07, KDW08, KH08, KP05, LY07b, LG08, Lau04, LM04, LSY04, LM03a, LBS⁺04, LMS04, LRZ04, LH08a, LS05b, Low05, Low04, LZC04, LB03b, LMNK07, LTM09, LCdCN⁺03, MJ09a, ML06a, MS08a, MEKS03, MNR07, MN06, MP05, ML08, MP07b, MJ06, MST06, MJ07, MSP⁺06, MG07c, MY06c, MCP03, MHPR08, MLS⁺05, MK03, MO06, NW07, NM06, NU09, Ni09, NWZL08, NLT07, NB04, NZ07, OS04, ODCk07, PR04a, PS07b, PS07d, QLK07, RCT07, RRC05, Ren07, RBvdV08, RGK07, RSO04, RS05, RS09a, RH05, San03, SPB09, ST06, SK08a, SM04, SB06c, SRNV07, SS05a, SFVK06, SAM05, SY03, Sme06, Str07a, SP06b, ST03b, TZHT04, TZ06, TWM07, TCN09, TD07, Tok06b, TT06a, Tow07, Tow09b, Tsy04, TPVG06, VSG05, VK04, Vos06, WT07a, WHLL03, WWC07].

methods

[WLT08, WLC⁺08, WM09, WZL09a, WZL09b, WG09, WG06, Wen07, Wen09, WH05, XXS07, XS06, XS09, XS05b, XLS09a, Yan08, Yan09, YYT05, YKG04, YE05, Yus06, ZKDT07, ZSW07, ZH04, ZKS⁺09, ZW04, ZQ09, vEB05, vOP04].

Metric [Hua05, Aza06, HZ07a]. **metrics** [OB06]. **Metropolis** [QL01].

MFEM [WLE⁺00]. **MHD**

[HY11, ALGM01, AT05a, AT08, BTW04, BBG⁺02, BvdHKG07, BSLN09, CKF02, CK03, CCF⁺05, CH08, DKSW01, DKK⁺02, Del01, DZ09b, FMR09, GS05b, GS08, GLL03, GFR09, GTMC08, GKV09, GLLN07, HMM08, HJ07, HY09, Jar04, LGKP07, LW01, LL08b, Mig07, NMM⁺07, NMH⁺07, ORM06, RWWS07, Sam09, SDGX07, TB04, TA06, YS07a, ZYL⁺06, vdHK07]. **MIB** [YZW07, YW07, ZW06]. **Micro**

[GS02, BBD04, BEA09, CRAG07, CHBS04, FT06, LCNR07, LR03, NFvS⁺06, RB05, RE05, SFX03, SS05c, TS08, ZXQX08]. **micro-** [LCNR07]. **micro-channel** [SS05c]. **micro-channel-flows** [TS08]. **micro-channels** [SFX03]. **micro-fluidics** [RE05]. **Micro-Inertia** [GS02]. **micro-local** [BBD04]. **micro-macro** [BEA09, FT06]. **micro-mixing** [CRAG07]. **micro-plate** [CHBS04]. **micro/nano** [NFvS⁺06]. **micro/nano-channels** [NFvS⁺06]. **microactuators** [LTM09]. **microbial** [PC08]. **microchannel** [VLB09, ZTPM05]. **microchannels** [WWC07]. **Microelectronic** [AIRY01, AIR03]. **Microfluidic** [AA02]. **microfluidics** [GV08]. **microlocal** [BCR04, Dar02]. **micromagnetic** [VOD08, dSMF09]. **Micromagnetics** [WGCE01, GCGE03, MO06]. **Micromixing** [MJ09b]. **microphysics** [BDR⁺04]. **Microscale** [Myo01, SB02, ZZ01, KPB08, Myo04, YE07]. **microscope** [TLAD04]. **microscopic** [AKP07]. **Microstructural** [ATV01, LLN00, CP04b, CP05]. **Microstructure** [EKK02, RV00, BEA09]. **microstructures** [WP09]. **mid** [CP03a, dSM05]. **mid-point** [CP03a, dSM05]. **Mie** [Shy01]. **migration** [CP04b, FEL⁺05, HS07a]. **Mikhlin** [HW05]. **MILC** [BLS08]. **Million** [CWWZ00]. **MIMD** [DPRS01]. **Mimetic** [CS01a, LMS04, dVGLM09, GL08, LSS06, LMS08, SP06b]. **Mine** [GKL00]. **minimal** [Cec05, KLSW09]. **minimisation** [CORT09]. **Minimization** [HdGKG08, Yam01, COV04, JCT07, Lap04, RSSL09, RSS09, SNLS03, YMW06]. **minimizing** [BT03]. **minimum** [CFR04]. **mirror** [DDK06]. **Miscible** [IYI⁺02, TM05]. **Mises** [GMO04]. **Mitra** [NCW⁺09]. **Mixed** [AP02, BFG08, CGSS00, VCTS02, dA04, AMS03, BWLM09, BG05b, CHPR09, DDK06, Doh09, GL09b, HPS06a, HBLD07, Hel09b, LJW09, MP05, MESV09, NV09, ND04, RRW05, VBJ08a, VBJ08b, WG09]. **Mixed-Basis** [AP02]. **mixed/discontinuous** [MESV09]. **mixing** [CRAG07]. **Mixture** [IYI⁺02, Shy01, VLKM02, BW07, CET09, Shy04, TLK07, ZKS⁺09]. **Mixtures** [OB02, VG01, dSAK00, AS03a, AL08, SPB09]. **MLFMA** [DBF08]. **mobile** [RF06, RMF08]. **mobile-bed** [RF06]. **Modal** [LD06, MHdB07]. **modal-based** [MHdB07]. **mode** [CTS07, DH07, HW05, LY07b, Oh04, PGN08, SRNV07]. **mode-separated** [Oh04]. **Model** [ACK02, BISS01, Bon00, BMS00, Cle00, CR02, DDG02, DE02, DOWB01, EF02, FCB02, FGOV00, FV01, GP00b, GMS06, GC02b, GSW00, Hun01, JC02, hLA01, Mil06, Mil07, ML01b, MOS⁺00, MR01, OF02, PS07c, PCCD00, Rom02, Sni01, Sun00, Tol02a, Tol02b, TTSG01, VCG03, vHBB02, AZB09, APP⁺07, AK09, AW04, BS04a, BBDE05, BG07, BN04, BCCV09, BL08, BBvdV06, BCZ04, BNNP06, BTWGvBW07, BJP04, CLS⁺06, CD04, CL07a, CL08b, CL03a, Che04, CL05, CL08d, CX08, CW08, CK08, CFGK05, CDV07, CDL04, CDL05, DDK06, DSM09b, DJM05, DGM07, DDH05, DSS07, DDGS09, DDFT09, EPW08, EKBL09, EF03, FVE04, FGS09, FNBB⁺08, FCGK05, GGMN⁺09, GS03b, GB03, GC06, Gra06a, GD07a, GD05, HBLD07, HW08, HHPW08, ICO04, IHL03, JA08, JN07, KD09]. **model** [KFIG06, KB04, Kou09, Kwo08, Lar03, LHR⁺07, LDN04, LWDA09, LB03a, LGN05, LWF⁺08, LD09b, LF04, LC03, MWM03, MM09, MGS07,

MG05b, Myo04, PM08, PSC04, PS05, PHW08, PVPS09, PS03b, QA09, QFR04, RRV06, Rom07, RFVP09, Sar03, SMT⁺08, SWK06, SW04a, SE04, SY09a, SL03, SK08b, SS05c, Sof09, SW08c, SK07b, SXyWX09, SS04, TLK07, TLAD04, TM05, TK04, VTC⁺07, VP09a, VK09, VP09b, VQLZ04, Wea09, WDÖ⁺03, XCY06, XDB09, XS07, XMT06, XHC08, YH07b, ZSWW03, ZK04, ZWS06, ZVQ07, ZXQX08, ZZ08, ZL09, ZDD09, ZSC06, KN09].

Model-based [Mil06, Mil07, GGMN⁺09]. **model-constrained** [BTWGvBW07]. **Modeled** [GW01, HR08]. **Modeling** [Ano08-50, BV00, BTFY01, CFM09, CS05, CDDH07, CMP07, DDG02, DC02, FSM⁺01, GZ07a, GS02, GM01a, GIA⁺07, GVT01, Hum05, JL09, KM08b, MT07a, MK02b, OV00, OP02, OVG07, Ota00, POS00, QLS09, SJ02, SD00, SMO00, TZ07b, VPA02, Whi00, XK03, YLA08, ZVHP03, AHF04, AMH04, ASQR06, AJ09, BOK⁺06, Cha09, FK06, FWR07, GZ09, GR08, GH08b, HSW07, HDR⁺06, KDOO05, KT06, LMV04, LVL05, LSS⁺09, Liu09a, Lyn08, MZ08, Mar09, ME09, MC03, MDM03, NCW⁺09, OK06b, RMB07, RE05, RM07, RW03, SR09a, SZ08, Sau04, SKWN03, SM09b, SCC⁺03a, SCC⁺03b, SMGJ09, SP06a, SBC04, TZ07c, TJLT08, VSV03, VLB09, YE07, ZKL⁺07, ZH09].

Modelled [CGSS00]. **Modelling** [CDS04, CP05, Cho05, GFS08, GYKL05, Hor02, JG09, KM02, LMS05, Pri08, VHI06, WHV⁺00, ZGT06, de 00, BQQ09, CRAG07, CP04b, CBS05, Eli03, ES06, FHLO08, GLT07, KMSH08, KAS06, LKD04, Lap08, LDL⁺09, LKX04, MT07b, QP03, RCB05, SS06a, SS06b, SJC07, Wan05, WGRA09]. **Models** [BSJ01, Bla00, ČPT01, GR01, HK00, Hig02, HKV01, KK00c, MEG02, Mie00, RV00, SSC00, ACGV07, AG09, BCB03, BKST09, BTC05, BC08, BBI09, BK07, CSC⁺08, CRAG07, CKPW07, CRB⁺08, CDV05, DVHM05, DMR09, DP07, DP08, Dic08, FCD⁺06, GT09a, GZ07a, GZ08, GD06a, GM06, Hag07, HK08c, Hig05, KMID05, Kim05, LM08a, LD06, LCB09, LB03b, MM03, MJ09b, ML06b, PA07b, Rah04, RW08, SDCC05, SSE03, She08, SK04a, SS03b, SK06, TSG⁺06, TW05, Thu08b, TR07, WAH09, WdND06, YHCD05, ZRS06, dFGLS05, dFJS09, dNWvSD07, dTWD09]. **Moderate** [VCP00, Vik03]. **Modes** [GBS00, RVVL09, PPCW06, TW05, TRSK09, TR07, WC08, dSMF09].

Modest [MCP03]. **Modification** [SWTM01, Vik03]. **Modifications** [RM01a]. **Modified** [BZ08, BADG00, CJ09, FH02, GST02, Jon05, LSL08, TTSG01, TSG02, WG06, BZ04, BL09c, CHL06b, Eg07, MU09, MC07c, Pal08, WRu03, ZB07].

Modified-truncation [Jon05]. **Modular** [Str00, SSB07]. **Molecular** [AC01, DPR00, DGA08, Yon01, AR08, ALT08, BPMR08, DTS05a, DTS05b, DST07a, GT09c, HS04, JG09, KNH05, LPK05, Li08b, MC07a, ML04, NTO⁺07, PGB05, Pau07, PSZ09, Pro03, SE09, SHP07, TG04, VS09, YWC07].

molecule [LR07, NTO⁺07, SMSS07, TLAD04]. **molecules** [HO06, LD06].

Moment [DK02b, MHS02, Abr06, Abr07, Abr09, AS09, CX08, DfV08, DS08, Fox08, Fox09, FDK06, GE07, IX07, IX09, LTZ03, RCT07, RW08, TS08, TFDK04, TRL01, VVS08]. **moment-constrained** [Abr06, Abr07, Abr09].

moment-of-fluid [AS09]. **Moments** [BW02, DC08, FLM08, LKD04, SH07a, Xia04, XAI06]. **momentum** [ABRR09a, ABRR09b, KH09, SAM05, SHP07]. **Monge** [DCF⁺08]. **Monitor** [CHR01, HS03b]. **Monitoring** [ESD05]. **monolithic** [DHOT09, GA09]. **monomolecular** [RE07]. **Monopoles** [Del01]. **Monotone** [Cap09, LSSV07, YS08, AM03, AM04, CL08d, DPRN05, LSV09]. **monotonic** [KK05c, KK05d, Yeh07]. **Monotonicity** [BS00a, RM01a, TS02, BD08, DT04, HR07, MD06, NE05, RGK07, RH05, SH07c]. **monotonicity-** [RGK07]. **Monotonicity-Preserving** [RM01a, TS02, DT04]. **Monte** [ABRR09b, LM01, LM03a, MCP03, ABRR09a, AMH04, BBHM09, BS07, BMDS05, BSP06, BUEG06, BB09b, CLL07a, CGMS03, CGMS06, CTW⁺08, CV06, CF06b, CS03, CS04, Dem04, DL03a, DL04, DUEB07, DDDC07, EULM03, ED07, FG04, FG05, FT09, Gen01, GL09a, GMH06, HH07c, HGM01, IH04, KB00, KMOV03, KAS08, KLV09, LSL08, LM08b, LD09b, MMKP08, MU09, MBS03, NU09, OK07b, Pal08, Pet07, PK00, PVR07, PVPS09, QL01, RRV01, RS06b, SSE03, Sch08, SL04, She08, SA06, SMSS07, UH01, VK04, VK05b, Vol04a, WBM09, WGS⁺08, WMH07, ZSB⁺08]. **Moore** [FS06, VPA02]. **morphological** [GFG09]. **morphology** [Liu09a]. **Morse** [WWVG00]. **MOSFETs** [BMN07, BCCV09, JSCZ08]. **MoT** [Noe00]. **Motion** [BCMO01, CBMO02, Cor00, LK01, PG02a, RMO00, RM01b, vdVvdV02, BB04a, CJLS09, DHM03, Eld07, EES09, FPT05, FG06, Kro01, LMH07, MR07b, RA09, SP04, Xu08]. **motions** [Fra04, LDN04, PC06a]. **movement** [SC09a]. **Moving** [BMR01, BMRS02, BW01, FGG01, GPH⁺01, Han00, HS06, Hua01a, LTZ01, LTZ02, MJ09a, MR00, MR02, RRL01, Str00, Str01a, TZHT04, TC01b, UMRK01, Wu01, ZRR00, AT05b, Aza07, Aza09, BS08b, BL09b, BCGR05, CSO09, CYS06, CHCOB09, DDM07, DT03, FS04, FYH⁺06, FG07, GLL03, GS05c, GNNB08, Gre04, HT07, HMR08, HF08b, IG05, JD04, Jia07, JX07, JS05, KY08, KC06, KS09, LL03a, LC06a, LZ09b, LHZW05, LLOT06, LZH⁺06, MWM03, Mad06, MKLU05, MLS⁺05, NXS07, OTCM08, PN03, PH06, PL08, QS07, QLS09, RW03, SS08, SY09a, Spe05, TZL05, TLL⁺08, TLK09, VB09, WT07a, XW06, YB06, YZLH09, ZKS⁺09, vDZ06]. **moving-boundary** [LHZW05]. **moving-least-squares** [GNNB08, VB09]. **MPDATA** [SS05b]. **MPI** [OMK09]. **MRA** [BLG⁺08]. **MRT** [PA07b]. **MSPH** [BZ04, BZ08, ZB07]. **Multi** [AS07, COR08, CD07, HL06b, HyLL07, JLT03, LNGK04, LL07, LJ09b, MN09a, NTTYT01, NTTYT02, PPC00, Rei00, SBGK00, SK07b, TOY09, TRL01, YKK08, AE03, AK09, ADR08, BSKH07, BJ09, BOT05, BLM03, BL03, BK07, CLG07, CLLG09, CET09, CR05, CKLS05, CLS05, CHB09, CWYM08, CX08, DR09a, DW09, Dic08, DS08, EHST03, EHS⁺08, FWK08, FLM08, GAC⁺09, HJL09, HG03, HA06, HA07, HA09, HAI09, IX09, JVS07, JLT06, JL09, JLOT05a, JW09, KSO⁺05, KK05c, KK05d, KLV08, Kou09, LMV04, LM04, LR07, LL03c, LW07, LBL04, MVD04, Mar06, Maz06, MG08, MK05, MDS03, MLS⁺05, MK04b, MGNB09, NGvdWS09, Ols07, OK06b, OK07a, PSC⁺06, PA07b,

RSM05, RS06a, SGFL09, SD05a, TZ07a, TW03, TJLT08, UBRT07, VP09a, VHI06, WK05, WB09b, Xia04, XAI06, XHW07, ZWS07, ZSWW03, ZWS06]. **multi** [ZSC08, dSMN⁺04]. **Multi-Block** [PPC00, CHB09, NGvdWS09, PSC⁺06]. **multi-class** [ZSWW03, ZWS06]. **multi-component** [CKLS05, CLS05, JVV507, Maz06, MLS⁺05, MGNB09, TZ07a]. **multi-corrector** [LRS09]. **Multi-dimensional** [LJ09b, NTYT01, NTYT02, SBGK00, TOY09, XAI06, YKK08, BL03, JW09, KK05c, KK05d, KKK08, LL03c, MG08, Ols07, RS06a, XHW07, ZWS07]. **Multi-domain** [CD07, MVD04]. **multi-element** [FWK08, WK05]. **multi-fluid** [FLM08, GAC⁺09, HG03, HAI09, LMV04, ZSC08, dSMN⁺04]. **multi-frequency** [WB09b]. **multi-grid** [LR07]. **multi-implicit** [BLM03, LM04]. **multi-integrated** [Xia04, XAI06]. **multi-level** [EHST03, EHS⁺08]. **Multi-material** [AS07, BSKH07, DS08, LBL04, SGFL09]. **multi-mesh** [DW09]. **Multi-moment** [TRL01, CX08, IX07, IX09]. **multi-parameter-dependent** [DR09a]. **multi-particle** [ADR08]. **multi-phase** [CET09, CR05, HA06, HA07, HA09, JLT06, KSO⁺05, Mar06, MDS03, TJLT08]. **multi-physical** [MK04b]. **Multi-physics** [LL07]. **multi-point** [CWYM08]. **multi-quadric** [TW03]. **multi-relaxation** [PA07b, RSM05]. **Multi-resolution** [LNGK04, BOT05, CLG07, Kou09]. **Multi-scale** [JLT03, MN09a, SK07b, AE03, BJ09, JLT06, JL09, OK06b, OK07a, UBRT07, VP09a]. **multi-scattered** [Dic08]. **multi-species** [AK09, BK07, SD05a]. **multi-state** [MK05]. **multi-static** [CLLG09]. **Multi-Symplectic** [Rei00, COR08, HL06b, HyLL07, HJL09]. **multi-valued** [JLOT05a, LW07]. **multi-viscosity** [VHI06]. **multiband** [RW08]. **multiblock** [RJ06]. **Multicenter** [GM01c, SB06a]. **Multicloud** [KJ09a]. **Multicomponent** [HLS01, LBD02, OB02, Shy01, WDM01, BGM08, BS09b, JC06b, Lau06, MC04, MM03, Shy06, WAO⁺04]. **multiconfiguration** [CGL06]. **Multidimensional** [CRD02, GF02, Lap02, Noe00, NC01, SHA08, TX00, WB01, ZR08, Abr06, Abr07, Abr09, Asl04a, BFT09, BGN03, KT04, LD09a, LF06, LHGF04, SL06, TXCD07, XMT05]. **Multidomain** [GBGM01, LP07a, DDH05, DLD08, DGJ03]. **multifluid** [MCN03, NDT06]. **Multifluids** [AK01, HK04b]. **multifractal** [TPVG06]. **Multifragmentation** [PA00]. **multifrequency** [MYW07]. **multifrequency-grey** [MYW07]. **Multigrid** [Alb00, BZB00, BL05, DIV00, EAY01, FOLD05, GMB01, KKS05, KJ09a, KvRvdVvdV07, KM00, Mav02, MLS01, Pai01, SMB09, Soc03, VC00, WK07, Yua02, Zha02, ABHT03, AHPT07, CLS⁺06, CS08a, DHOT09, EKP07, GT05, HH07a, Heu03, HMMO05, HWWL09, JHSZ07, KW06, KKL04, KL04, Küm04b, LLY05, LDPL08, LBL06b, LZH⁺06, LZH⁺07, NM06, NvL03, RKE⁺07, SRNV07, TZ03, VBL07, WZ09, WKL07, XYK05, vdV08, SD05b]. **multigrid-based** [RKE⁺07]. **Multigroup** [TFDK04, GS06a, SO08]. **multigroup-WENO** [GS06a]. **Multilayered** [CY00, Gut00]. **multilayers** [GCW07]. **Multilevel** [BCHL07, DJTT05, TSB01, TC09b, GKD09, Hab04,

LSS⁺09, LMS08, RAB07, TSB03, VK05a]. **Multimaterial** [LX00, UTBV03]. **multioperators** [Tol07, Tol08]. **multioperators-based** [Tol07, Tol08]. **Multiphase** [GM04, Gos04, GM06, Han01, HLS01, SJ02, Sni01, TBE⁺01, VLKM02, VC00, YXU01, AS03a, BCB03, CL07a, CL08b, DP09, GCNB07, HJ09, ICO04, KT07, LZT09, LK09, LKO05, LJ06, LTL⁺09, MC04, MK06, NL08, PFSL07, PA07b, QLS09, SPB09, Shi07, TBJ⁺09, WP09, ZZVM08, ZLAC05, ZSC06]. **multiphysics** [FMD⁺09]. **Multiple** [GB08b, LR01a, LTZ01, Mu02, RW00, TNR02, XHC08, ACR08, BS09a, BBMB07, BOK⁺06, CJLS09, CGDT09, CK07, CB09, Del03b, ELVE07, GK04, GK07, HS09a, JG09, KCMM03, Kro02, MK07, Ngu08, RW03, SHPC09, Spe05, TZ07b, YXLF05]. **multiple-grid** [CK07]. **Multiple-Heaps** [Mu02]. **multiple-scale** [BBMB07]. **multiplication** [NU09]. **Multiplicative** [Ram06]. **multiplier** [BG05a, DLMK04, SPT05, VMN07, ZSP08]. **multiplier/fictitious** [SPT05]. **Multipliers** [TB00a]. **Multiply** [BMQS02, HJ02, Mil05, VRM07]. **Multipoint** [QL01]. **Multipole** [Dar00b, CDJ07, CCG⁺06, CWD08, CFR08, Dar02, DH04, DC07, FD09a, GKD09, GH02, GD06b, GD08, KP05, LCM07, ST06, SK04b, TC09b, TG08, VOD08, YBZ04, Yin06, ZT07a, ZKL⁺07, ZD05]. **multipole-to-local** [CFR08]. **multipoles** [OLLL03]. **Multiresolution** [CDKP00, BK07, DGRS08, RSTB03]. **Multiscale** [AA02, BP06, CGP05, CF06b, FSM⁺01, FY07, HJ09, HO06, JP00, LLIK01a, LLIK01b, LJ06, PK00, RV00, TZ07c, Vay01, AZ06, BCM⁺07, BLM04, CELS07, ERVE09, EGHE06, FVE04, FMD⁺09, GZ07a, GZ09, Gra06b, HBHJ08, KP07, KKS07, LZT09, LMS08, MM09, MY06c, MHdB07, NZ05, Ngu08, PBH04, RE05, SDD07, SY03, THL06, Tan08, WGRA09, YS07a, YE05, YE07, YH07b, ZSB⁺08, ZHSS09]. **multiscale/multiphysics** [FMD⁺09]. **multislab** [dA04]. **Multispecies** [BJ02, Del03a, SD05b]. **multistack** [DS05b]. **Multistage** [Löh04]. **Multistate** [BU02]. **multistep** [HR07, RH05]. **multisymplectic** [IS04, SW08b]. **multitime** [vdV08]. **Multivalued** [Gos02, JLOT05b, QL04]. **Multivariate** [WGNT06, AGSX09]. **Multiwavelet** [ABGV02]. **Multiwavelets** [JMK01, TNR02]. **Mumford** [ET06, RR07]. **MUSCL** [Ber06b, BL01, Waa09]. **MUSIC** [PL09a]. **MUSIC-type** [PL09a]. **MUSTA** [TT06b].

N [Aza09]. **Nagumo** [EV03]. **Nanbu** [DWC⁺09, WLC⁺08]. **Nano** [GK02, BCCV09, JSCZ08, LCNR07, VTM⁺08, ZK04]. **nano-channels** [NFvS⁺06]. **nano-flows** [LCNR07]. **nano-MOSFETs** [BCCV09, JSCZ08]. **Nano-particle** [GK02, ZK04]. **nano-systems** [VTM⁺08]. **nanodevices** [CLL⁺07b]. **nanoparticle** [MLFG06]. **nanoparticles** [FY07, MWG⁺06]. **Nanoscale** [BGR08, BMN07, CL05, FH07]. **nanostructures** [PA05, RRC05]. **National** [Har04]. **Natural** [MPP01, SVH⁺06, AZ05, DR09a, GZ07b, GCCD07, MZ08, PS03a, PSC04]. **nature** [Fen06]. **Navier** [DD03a, AQ09, BQQ09, BCDR06, BHR06, BB07a, BACFT05, BLM08,

BCVK02, Boe05, BT06, BJ09, BCM01, BGLN05, CSL08, DC01, DR09a, DD09, DB04, Dom08, DD03b, EHST03, EHS⁺08, FL03, FOLD05, FD07, GS07, Gel06, GSV06, GCNB07, GR08, GS03c, Gri09, GSW00, GK05, HH08, HH01, HDC02, HK08a, HH02b, HLMM07, HS08b, HLL08, HC05, ILL09, JK00, JL04b, JMC03, KA05, KE06, KDK⁺07, KG08, KAK03, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KM00, KB01, KS09, KT03, LMN⁺09, LOK01, Lee09, LC01, LL01b, LFX05, LDPL08, LRZ04, LP07b, Liu09b, LMS02, LB04, MPP01, MVD04, MRS09, MCG08, MSS08, MF00, MG06, MLS01, NW07, NZ05, Ni09, Nik06, NMS07, NGvdWS09, Pai01, PNMK09, PKP01, Pet01, PR03, PR04b, Pon07a, Pon07b, PR06, RBH03, RS06a, SML02, SNGAS04]. **Navier** [SFE07, SMB09, STZ07, Soc03, SCN07, SN08, STR07b, SPW⁺00, TOZP03, TXCD07, TWS02, VSW04, WRu03, WPH00, WK01b, WS01, XK01, Xu01c, XYK05, YS07a, ZL08b, ZDNP00, vBRK01]. **Near** [FR02, KMID05, MK02b, OK07b, SKWN03, GLLX08, HAP05, Khe04]. **Near-field** [OK07b]. **Near-wall** [KMID05, SKWN03]. **Nearest** [Par02]. **Nearest-Grid-Point** [Par02]. **Nearly** [AJG01, BKLL04, DST07a, DS09b, HL07b, ZJW06]. **necessary** [CLMRP08, LM08a]. **Negative** [SHS02, MHE06, NV09]. **negativity** [SCT09]. **NEGF** [JSCZ08]. **Neighbor** [DTS05a, DTS05b]. **neighboring** [XLS09a]. **Neoclassical** [HKKS⁺01]. **Nested** [DAJ07, ELVE07, FCB02, LJSM08, MM09, RAB07]. **Network** [MK02b, RCT07, XS07]. **networks** [KF06, LMK03]. **Neumann** [APQ03, GP04, GK04, Gui03, HW05, Hel09a, NR01, Poz01b, SDS07, TB00a, YLA08]. **Neural** [MK02b]. **neuronal** [RCT07]. **neutral** [BBK06, CDV05, GWF⁺07, GBS00, LCB04, TPR05]. **Neutrally** [PG02a]. **neutron** [BH05, FHJK09, Mac07, NU09, RW08]. **New-version-fast-multipole-method** [LCM07]. **Newmark** [CL07b]. **Newton** [Yan09, BB07a, Boy02b, CBKM00b, Cha07b, CZ09, HC05, KM00, KK04, KT07, MKR00, NOG08a, NOG08b, ORM06, SNGAS04, TWS02, YLD09]. **Newton-conjugate-gradient** [Yan09]. **Newtonian** [FS04, VBL04]. **NICAM** [SMT⁺08]. **Nicolson** [Han00, KW08a]. **Niño** [CC08a]. **nitride** [BMK⁺06]. **NMR** [KHV01]. **No** [SN08, HSC09, PK05]. **No-slip** [SN08, HSC09, PK05]. **Nodal** [GHW02, HW02, KWBH09, WPH00, GLMH09, GW05, JH06, Pon07b, WRu03]. **node** [KLP⁺09, MCGV04, WF06]. **node-centered** [MCGV04]. **noise** [BB04b, CBJdlC07, MSB07a, SMS08]. **Non** [BTW04, BS00a, BM01c, Dem04, GBS00, Hub07, KM07b, MKR00, NV09, SCT09, Tor03, Vas00, Yon01, Abg06, AB03, BFB08, BDRT09, Ber04, BdCB09, BCCD08, BSW05, BCI⁺08, CFS09, Cap08a, Cap08c, Cap09, CCV03, CN05, CEH09, CSL08, CS06, CS07d, CP08, DHOT09, DSM09b, DP07, DK07, DKTT07, FS04, FR03, GS06a, GT09a, GZ08, GGS09, GHB03, GN03, GT05, GWF⁺07, GYKL05, Hau08a, Hau08b, HMA05, HKG08, HAP05, HS06, HJJ09, Hu05, Hwa03, ISNY05, JJGL06, JJGL07, JA08, JSCZ08, JG09, KD09, KB04, KK03b, Kou09, KLSW09, LSA06, LVL05,

LMS04, LCCG05, MGS09, MJ06, MGC06, MG06, MG07d, MK03, NN04, OMK09, Pav07, PWM06, PK07, SBA07, SS03a, SAK05, SSB07, SLV09, SB06c, SE04, SZ05, STZ07, TWM07, TT05a, Tok06a]. **non** [TT05b, TB04, TPR05, VMN07, VBL04, VZSL07, WT07b, WSYS09, WC07, XHC08, YKG04, YA05, YS06, YH07b, ZSWW03, ZIP06, ZWS06, ZT03]. **non-aligned** [GYKL05]. **Non-autonomous** [BM01c]. **non-conformal** [LMS04, VZSL07]. **non-conforming** [CCV03, CEH09, SB06c]. **non-conservative** [DP07, KD09]. **non-convex** [HJJ09]. **non-diagonal** [WC07]. **non-dispersive** [MGS09]. **Non-equilibrium** [MKR00, BSW05, GT09a, GT05, JSCZ08, JG09, MK03, SSB07, WSYS09, XHC08]. **non-Gaussian** [HMA05]. **non-graded** [MGC06, MG06, MG07d]. **Non-homogeneous** [KM07b, FR03, SBA07]. **non-hybrid** [BFB08]. **non-hydrostatic** [SE04]. **non-hyperbolic** [Hwa03]. **non-inertial** [PK07]. **non-isothermal** [DHOT09]. **Non-iterative** [Yon01, OMK09]. **non-Lagrange** [VMN07]. **non-linear** [BDRT09, BdCB09, BCI⁺08, CFS09, Cap08c, Cap09, CN05, Dem04, GZ08, Hau08a, Hau08b, MJ06, TT05a, TT05b, WT07b, YKG04, YH07b]. **non-linearly** [Tok06a]. **non-local** [KB04, LSA06, Pav07]. **non-matching** [JJGL06, JJGL07, LVL05]. **Non-Monte** [Dem04]. **Non-negative** [NV09]. **non-negativity** [SCT09]. **Non-neutral** [GBS00, GWF⁺07, TPR05]. **non-Newtonian** [FS04, VBL04]. **non-orthogonal** [LMS04]. **non-orthogonality** [SS03a]. **Non-oscillatory** [BTW04, BS00a, Hub07, Abg06, BCCD08, CP08, DK07, DKTT07, HAP05, TWM07, ZSWW03, ZWS06]. **non-overlapping** [LVL05]. **non-parametric** [Kou09]. **non-periodic** [GHB03, LCCG05, SAK05, SLV09]. **non-polynomial** [YS06]. **non-radially** [KLSW09]. **non-reactive** [HS06]. **non-reflecting** [AB03, GN03, NN04, PWM06]. **non-smooth** [Ber04, CS06, CS07d]. **non-staggered** [CSL08]. **non-stationary** [GS06a]. **non-thermal** [DSM09b]. **Non-uniform** [Tor03, Vas00, Cap08a, HKG08, Hu05, ISNY05, KK03b, SZ05, STZ07, TB04, ZIP06, ZT03]. **non-unit** [JA08]. **non-viscous** [GGS09]. **nonaffine** [Ngu07]. **nonaffine-parametrized** [Ngu07]. **Noncompact** [GBGM01]. **nonconforming** [Fou06]. **Nonconservative** [Wu01, CR09, RBvdV08]. **nonconvex** [Ser09]. **Nondissipative** [KPP09]. **Nonequilibrium** [VDM⁺02, KLM07, LRS07, Ols07]. **Nonhomogeneous** [FP02, GC01, FG04, FG05]. **Nonhydrostatic** [Bon00, SMT⁺08, GR08, MM09, SK08b, SW08c]. **Nonlinear** [AL01, BR01, BC01, Boy02b, CKF02, CSP01, CRD02, DZ00, FGG01, FT01, Gla01, GPL05, GLLN09, HZ02, IKS01, KLN⁺01, KK00b, KJ01, Kul01, KT00a, LMSW02, MF01, Mav02, Nie01, PR01a, Saf02, SKAS01, SGG⁺04, Sti02, TS01, WK01b, YL01, de 00, ARRS09, AMH04, AKV06, AMXL09, AG08, BHS03, BFT07, BFT09, BN04, BB09a, BS06b, BG05b, CHL06a, CL08a, CHL09, CBJdC07, CK03, CL06b, CC03, CCJ07, CLS09a, Chu09, CFJ09, DH07, Doh09, DKTT07, EKBL09, Fan08, FT05, FL07, FWR07, FG07, HZ08, HK08c, HL06b, HyLL07, HLL08, HWWL09, HC05, JTL09,

KSH⁺06, KLSW09, KT07, LZT09, LSY04, Low04, LL08b, Ma05, MY06a, MKOW04, MY09, MESV09, MT07b, Mou04, Nas08, NPC09b, NF09, NL09, OCFF08, PSD09, RSSL09, RGK07, Sac07, Sau04, SS07c, SP05c]. **nonlinear** [TTZ03, TWM07, WFTS05, Wan05, WKL07, XS05b, XHW07, XG09, YM07, YLD09, ZJS08, Zhe06, Zhe07, vdVX07]. **nonlinear-multigrid** [HWWL09]. **nonlinearity** [LY07a]. **Nonlinearly** [LAS01]. **Nonlocal** [BZB00, FS00a, FS00b]. **Nonmonotone** [SL07c]. **Nonorthogonal** [LP02, FT05]. **Nonoscillatory** [JMP02, TH01, WC01, WH02]. **Nonparabolic** [Rom02]. **nonparabolicity** [WHL03]. **Nonparametric** [Mac00]. **nonreacting** [DBS06]. **Nonreflecting** [AGH02, Ata04, Giv01, Gro00, GK07, RC00, AG08, Zhe06]. **Nonseparable** [TNR02]. **nonsmooth** [FCJ08a, FCJ08b]. **nonspherical** [DTS05a, DTS05b]. **Nonstationary** [IKL⁺08]. **nonstiff** [CR07]. **Nonsymmetric** [DF00b, JHZ⁺09]. **Nonuniform** [GZ01, HLS02b, HA02, LLQ⁺02, MN02, LG05, Rem06, SS09a, VB08, WA08]. **norm** [SVH⁺06]. **normal** [ND04, RMB07, TW05, TR07]. **normalization** [Tow09a]. **normalize** [Hag07]. **normally** [NTB07]. **normals** [FB08, RMB07]. **Note** [Ano03y, Ano03z, Ano08-51, Del01, DF00b, Poz01b, Wu02, Ano07-32, GXW07, GJK09, GS03c, TL06, UYK⁺04]. **Notes** [Ber06a]. **Novel** [BU02, DC01, DSS00, EG08, FH00b, YCL05, BAMD07, FGP08, LSA06, LL04b, LNXNTX09, MvW08, Pap08, SLC07, dSMF09]. **nozzle** [CGH05]. **NS** [WLC⁺06]. **Nuclear** [Saf00, BDR⁺04, KP07, PGB05]. **null** [CEL06]. **Number** [AKY01, Cor00, DKX01, FH00b, FG02, HT00b, LLIK01a, MP02, MHS02, MPC02, NTYT02, Nic00, PW01, SBGK00, SSD00, Tol02a, WPM02a, ZRR00, Ano04z, BDHN09, BDR⁺04, BTW03, CLB08, Del07, DBBP08, DDH05, DST07b, Heu03, JS05, KKM08, LG03a, sLwG08, LM08c, MT03, MDR07, NMM⁺07, NMH⁺07, OTCM08, PPD08, RE07, RB09b, SM06a, SFMP06, TSG⁺06, TMD⁺08, VK05b, XH03, XP04b, XLP05]. **Numbers** [AC01, BEPT09, CTS07, DKS⁺03, HY09, HY11, KPB08, Lee07b, OVG07, SDGX07, Vik03]. **numeric** [HBHS09]. **Numerical** [ART02, ART04, ACS00, ACLS03, APQ02, BS04a, BSW03, BJM03, BLW04, BL09a, BST01, BMRS01, BCG09, BCR04, BA03, BS01, BRL02, BPL06, BS06b, Boy02a, BC02b, Bur05, CPR05, CFA01, CHH06, CD04, CP03a, CBJdIC07, CGRGV⁺04, CQO04, COV04, CWL08, Cle00, CL03b, CB09, CF04, CkM07, DW00, Dar00b, Del07, Den07, DJ04, EPW08, EE08, Eld07, Eli03, FLG01, FT05, FSB01, FP02, FLM08, FCB02, GMD03, GGS09, GS02, GK01, GLS03, GPH⁺01, GP00b, GC02b, HLFB07, HMM02, HK02, HF01, HPZ01, HL07c, HSL08, HLWW04, HLWW06, HWW07, IG05, IM05, JLCD01, JWSC00, JW02, JMZ04, JHB⁺09, JS05, KP07, Kan02, KSH⁺06, KAIN01, KSW07, KLM07, KMS04, KJ01, Kro02, LCB04, LP00, Lem00, Lin02, LGK06, LOK05, LP04b, LP02, LCdCN⁺03, MR00, MCCT02, MRRS05, MC09, Men04]. **Numerical** [Mie00, MY06c, MC00b, MLS⁺05, NS04, NLT08, Nys02, OKL01, OL01, PSCB08, PD01, PSCQ03, PR01b, PIN09, PWS⁺02, PCCD00, PO01, Pud06, Ram03, RCT07, RRC05, RGS04, RRL01, RXH02, RFVP09, Saf02,

Sai02, SZ01, SLY02, San01, SJ04, SK08a, SB09, SL04, SFVK06, SSND03, SSC00, SKW05, Sus06, TS01, Thu08a, TRSK09, Tok06a, TC01a, TCM⁺00, TdAAP08, TE04, TV08, TPVG06, VC03, VR02, VPA02, VQSZ02, WHLL03, Wee02, Whi00, WO05, WO09, WB01, XMT06, XG09, YM07, YFLS06, YVD00, YE05, dWKL07, vBRK01, vZS07, vDBG09, AS03a, APP⁺07, AK07, Ano04z, ACR08, AMP09, AM05, BL04, BW06, BCL06, BY07, Bar04, BFT07, BFT09, BV05, BDGL05, BLM08, BWLM09, BCM09, BBCT09, BW07, BP07, CLB08, CRAG07, Cec05, CMG09, CMP07, CHG⁺07, CP05, CM03].

numerical

[CHCOB09, CC04, CP04c, DMHP07, DSJ03, DLD08, DWC⁺09, DF04, DHM07, DLW04, Eld08a, FDD07, FR03, FPT05, FF03, FD09b, GCGE03, GS07, GR04, GCLB04, GKL03, HK06, HKM08, HP04a, HKG08, HS03a, Hoh06, HM04, HL05, HM05, HLRZ06, HPS⁺06b, HMR08, IKS⁺09, JD04, JW03, JS07, KK03a, KW08a, KK05c, KK05d, KH07, KDF07, KSJ03, Kro01, Kry04, KN04, Lar07, Lau04, LMV04, LDN04, LSA06, LKE04, LG07, LZ09c, Liu08, LL08a, Low05, LQ06, MM07, MCM04, MLSD07, MTWW06, MC06a, ML08, MT04, MWG⁺06, MSB07b, MGNB09, NG06a, NTB07, OPML07, OCFF08, PDHP07, PC08, PM07, PSMW09, Pro05, QKS06, Ram06, Ren07, RSW06, RMG⁺09, Rom07, Ros09, RS09b, RV07, SB06a, SM09a, SDGX07, SROCF03, SKS08, SFDL07, SW08a, SSB07, SMS08, SW04a, SD05b, SP04, SP05a].

numerical [Shi07, SS06b, Sme06, SP06a, SFMP06, TMS06, TM07, TWM07, TW07, TG06, Tsy03, UL06, VVM05, VSV03, VGBZ09, VGL⁺07, VBL03, VBL04, WT07a, WB09a, Wen07, Wen09, WMH07, YXLF05, ZSW03, ZSWW03, ZWS06, ZZ08, ZT03, ZD08, dSMF09, VBJ08a]. **Numerically** [WDM01, RV09, Wag05]. **numerically-induced** [RV09]. **Nunziato** [AW04]. **NWP** [Thu08b]. **Nyquist** [KP08]. **Nyström** [FWW04, HyLL07, TC07b].

OBC [Ano07-27, Ano07-28, Ano07-29, Ano07-30, Ano07-31, Ano08-34, Ano08-35, Ano08-36, Ano08-37, Ano08-38, Ano08-39, Ano08-40, Ano08-41, Ano08-42, Ano08-43, Ano08-44, Ano08-45, Ano08-46, Ano08-47, Ano08-48, Ano08-49, Ano09-49, Ano09-50, Ano09-51, Ano09-52, Ano09-53, Ano09-54, Ano09-55, Ano09-56, Ano09-57, Ano09-58, Ano09-59, Ano09-60, Ano09-61, Ano09-62, Ano09-63, Ano09-64, Ano09-65, Ano09-66, Ano09-67, Ano09-68, Ano09-69, Ano09-70, Ano09-71, Ano09-72]. **Object**

[DPRS01, QRHD00, RFFP06, TZL05, ZSC08]. **Object-Oriented**

[QRHD00, RFFP06, ZSC08]. **objective** [MC03]. **objects**

[AvdB04, ADR08, IQT08, LZH⁺06, RW03, TC09b, Xu08]. **observables**

[JLOT05b, JLOT05a]. **Observations** [KS02a, CHM08, HM08, KYK07].

observer [BCI⁺08, VS07]. **obstacle** [FNS07, GG04, Lee07a]. **Obstacles**

[Pai01, BG09, KS09, TC07b]. **obtaining** [GWF⁺07]. **Ocean**

[Ano08-50, Bla00, DOWB01, Hig02, KN09, MR01, SM09b, HHPW08, Hig05, Jan08, Ler06, PHW08, SP06a, Wea09, WDÖ⁺03, WAH09, WdND06,

dNWvSD07, dTWD09]. **ocean-climate** [dNWvSD07, dTWD09]. **Octant**

[MY07]. **octree** [HH07a]. **odd** [RVM07]. **odd-even** [RVM07]. **ODE** [HR01].

ODEs [CPKW09, Tok06b]. **off** [GGS09, MT07a, SZB⁺07, Vil08, YFLS06].
offsetting [Jia07]. **oil** [LCH03]. **One** [BMRS01, CWT00, DMG00, Del01, FSY00, GKE04, LT09b, MR00, MR02, PL01, QLK07, RB06, SFY01, VD00, VC00, VS02, ZQ09, AB03, ABK09, AI09, BTW04, BFT07, BS04b, Bil05, BDCG03, Boy03, CGSR08, CC07, Cho05, CR09, DT04, DBTM08, FS09, GM04, Gos04, GM06, HH07b, HZ08, HAP06, HGB⁺03, LKX04, NFA03, QS04, SR09a, SKWN03, SK04b, WO05, Xia04, Zhe06, HA02]. **One-**
[LT09b, BTW04]. One-Cell [VC00]. **One-Dimensional**
 [BMRS01, CWT00, DMG00, Del01, MR00, MR02, PL01, VS02, GKE04, QLK07, ZQ09, AB03, ABK09, BDCG03, CC07, CR09, GM04, Gos04, GM06, HZ08, HAP06, HGB⁺03, NFA03, QS04, SKWN03, SK04b, Xia04, Zhe06].
one-fluid [LKX04]. **one-parameter** [CGSR08]. **One-sided**
 [RB06, HH07b, SR09a]. **one-step** [DT04, DBTM08]. **One-Way**
 [FSY00, SFY01]. **onset** [CGM07]. **onto** [NTB07]. **Open**
 [Liu09b, SS07c, BP06, BTC05, BF07, CZVS04, JR03, JR04, LZ09a].
open-channel [CZVS04]. **Operator** [KLN⁺01, KK00b, PRT00, Spo00, TK04, BG05a, CWJ07, CFR08, DD05, DWC⁺09, FL09, IAT08, KJ09a, KK07, Lab09, PAD07, PC06a, RS05, RS09a, RBK09, SRM09, TBT⁺09].
operator-stable [PC06a]. **Operators**
 [Edw00, Her00, Lem00, MHS01, NR01, BO04, DK06, Gra06b, Her09, Heu03, LM08b, MN04, MN17, RS05, RS09a]. **Optical**
 [BV00, GHV00, Lin01, Whi00, BBD04, FH03, KM03, KNH05, MWM08].
Optics [Gos02, OCK⁺02, CQRW05, JW06]. **Optimal**
 [BHS03, BC08, CHG⁺07, CKL00, FH02, HZ07b, HN03, IF09, KFIG06, KMA⁺01, MO06, NvL03, WR09, BHNPR07, CBGI09, DCF⁺08, FLB03, HH08, HAP05, Liu08, MG05a, NL08, Pee03, PSM08, PRL03, SY09b, TW05, TR07].
optimality [PVR07]. **optimisation** [Pro03]. **Optimised** [Kim07].
Optimization
 [CD00, HGM⁺00, IFZ01, JK02, KMS02, MK02a, OS01, RBSL06, SSSWD00, SKK⁺08, TWM07, TSG02, TS07, AS05b, AJT04, AA06, BP09, BP04a, BTWGVBW07, CKvT07, DCF⁺08, DAJ07, FLB03, GKJW07, GJK09, Ham07, HSBG05, HE07, HS09b, LTWW07, LLC⁺08, LTM09, MS08a, MC03, MD06, Pir07, PL08, Pro08, SHA08, TW03, WLKW07, YMW06, ZL08b, MS08a].
Optimization-Based [KMS02]. **Optimized** [AZ03, BS09a, BM05, CL01b, HB05a, SHWW00, WC01, ZT07b, MTWW06, PSG05]. **optimizing** [Hab04].
optimum [LT09a]. **Orbit** [YMF01, PH09]. **orbital**
 [Küm04b, LZ07, SLG⁺03]. **Orbitals** [GM01c]. **orbits** [KG03, SNGAS04].
Order
 [AC00, ACY00, BS00a, BISS01, BRL02, BK01, BSB01, CL01a, CKGL02, Coe02, CR00, CSP01, DV02, DZ00, DLS⁺00, FT01, FT09, GC01, GFCK02, GHW02, Giv01, HLS02b, HW02, KC00, KB01, LP00, Lai02, LS00, MC01, NR01, Nic00, NC01, Nys02, OGV02, PKP01, PM00, QS02, SLY02, TK00, TX00, TS01, TS02, VCP00, Vas00, VG02, WH02, XCZ02, XK01, YP01, YL01, Zha02, ZS01, de 00, AM03, AM04, AV05, APTJ⁺04, APP⁺07, Ain04, AMR06,

AV03, AG09, AC09, AB05b, AT05b, BS04a, BC05, BKST09, BGN07, BFT07, BFT09, Bea08, BC08, BBMB07, BRC⁺09, BdCB09, BLM03, Boy06, BSW05, BGLN05, BH04, BHP07, BL03, CT09, CVB06, CP03a, Cap08c, Cap09, CT08a, CC03, CP04a, CC07, CS07a, CKG04, CS06, CS07d, CRB⁺08, CR09, CFP06]. **order** [CBS05, CF04, CFJ09, DT04, DSM09b, DPRN05, DC07, DBBP08, DTMS06, DR09b, DDFT09, DK07, DET08, DZ09b, EKBL09, FNS07, FRS08, FB08, FOLD05, FD07, FR03, FK09b, Fox08, Fox09, GPC07, GG04, GH08a, GSV09, GGF03, GF05a, Gir06, GN03, Gom08, GR04, GBS06, GP05, GHMP07, GLT07, GL08, HH07b, HMOG08, HWL08, HH08, Hau08a, Hau08b, HMPR07, HAP05, HAP06, HJJ09, HMMR04, HMMO05, HJM07, Hub07, HB05b, IX09, IM07, IQ08, JH06, JD09, JBF07, JMC03, KSO⁺05, KKM08, KE06, KCGH07, KZ04, KT06, KK05a, KK05b, KPB08, KLK08, KYK07, Kok09, KT05, KPP07, KPP09, KB06, Kri07, KWD07, KQW03b, Lab09, LL09, LSD07, LM08a, LTZ03, LG04, Li08a, LSZZ08, LN09, LF05, LRZ04, LCS09, LS09, LF04, LB03b, LCdCN⁺03, MZ08, Mai09b, Mai09a]. **order** [MS03, MRS09, MvW08, MN06, MY06b, MG07a, MP05, MOG09, MG06, MG07d, MG08, MC07c, MHPR08, MPFC08, NLF03, NPH09, Nas08, NM06, NOG08a, NOG08b, NPC09a, NPC09b, Nis07, NPPN06, NXS07, NF09, NGvdWS09, ODAF07, Ols07, Ols09, PKD07, PP04, PRL03, QW05, QA09, RP08a, RRW05, RDPN07, RH05, SZ08, SGFL09, SDM04, SM04, SPM03, SFE07, SMB09, SZC09, SS05a, SZS03, SZ05, STZ07, SY03, SP05b, SCW⁺09, SGG⁺04, SL06, SP06b, SRX07, Sus03, SN06, SCN07, SN08, TMS06, TM07, TLAD04, TWYC06, TFD06, TCN09, TD07, Tol07, Tol08, TB04, VGCN05, VWW04, Wan04a, Wan04b, WL06, WM07, WSYS09, WZ09, WGRA09, WD07, WZ07, Wen07, Wen09, WA08, WAH09, WMH07, XS05a, XS06, XCRX08, XS05c, YMT⁺04, YC09a, YC09b, YP06, YHSX07, YS07a, Yeh07, YBZ06, You06]. **order** [YZW05, ZKDT07, ZL04, ZP05, ZJS08, ZJ09, ZW04, ZT03, Zho07, ZZFW06, ZYHS07, vZdBB07]. **Order-** [FT09]. **ordering** [NL08, SNLS03]. **Orders** [GST02, MBM01]. **Ordinary** [MOvL00]. **Ordinates** [Coe02]. **Organic** [deM02, Lap03]. **organism** [LB03a]. **organization** [FY07]. **orientations** [LR07]. **Oriented** [OV00, QRHD00, BTWGvBW07, RBH03, RFFP06, ZSC08]. **origin** [CL07b]. **origins** [Lyn08]. **Ornstein** [KP04]. **Orr** [GFR09, Meh04]. **Orthogonal** [AJG01, Tót02, XCZ02, Bia03, CRB⁺08, LMS04, Nik06, ZJW06]. **orthogonality** [SS03a]. **Orthotropic** [LLN00]. **Oscillating** [OKL01, DGH08]. **Oscillation** [OF02, CJSS08, KLK08]. **Oscillation-Free** [OF02]. **Oscillationless** [XY01]. **oscillations** [BPM06, CBC09, Gos04]. **oscillator** [LTD⁺06]. **oscillatory** [Abg06, BTW04, BS00a, BCCD08, CP08, DK07, DKTT07, HAP05, Hub07, TWM07, ZSWW03, ZWS06, HGM⁺00]. **Osculatory** [BR01]. **Osher** [FSS03, Lbv00]. **osmotic** [WWC07]. **Ostwald** [Hor06]. **Other** [Boy02b, MR03]. **Out-of-Core** [TR02a]. **Outflow** [Eli02, Eli07, FGP08, HAS05, HEN09, MJ07, SAK05]. **Output** [MPP01]. **Outputs** [VD00, VD02, VD03]. **Outstanding** [SS01b]. **Overdetermined** [Boy02b, Str07a]. **overfilled** [Woo06]. **overlap** [SB06a]. **overlap-like**

[SB06a]. **Overlapping** [PW00a, WZ00, BSKH07, BHS09, DTMS06, HS03a, HS06, HS08a, KZ06, KP05, LVL05, Li08a, Liu05, TZL05]. **Overlying** [Str01b]. **overmoded** [LKD04]. **Overset** [BE02, FS04, SS05a, TJS03]. **overset-grid** [TJS03]. **overtopping** [LTD04]. **Overview** [OF01]. **Oxidation** [GR01]. **oxide** [GIA⁺07, GIA⁺08].

P [Gon07]. **package** [DFG⁺06]. **packed** [CLL07a]. **packet** [BS04d, BS06a]. **packings** [DTSC04, DST07a]. **Padé** [WH02, CDI09, Lur07, SFY01, WH02, You06]. **Padé-Gegenbauer** [Lur07]. **Padé-Type** [WH02]. **pages** [DKX01, HT00b, LLIK01a, MP02, MPC02, NTYT02, PW01, SBGK00, Tol02a, ZRR00]. **pair** [CHPR09]. **paper** [Aza09]. **Papers** [Ano00q, Ano00r, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano00g, Ano00h, Ano00i, Ano00j, Ano00k, Ano00l, Ano00m, Ano00n, Ano00o, Ano00p, Ano01g, Ano01h, Ano01i, Ano01j, Ano01k, Ano01l, Ano01m, Ano01n, Ano01o, Ano01p, Ano01q, Ano01r, Ano02a, Ano02b, Ano02c, Ano02d, Ano02e, Ano02g, Ano02h, Ano02i, Ano02j, Ano02k, Ano02l, Ano02m, Ano02n, Ano02o, Ano02p, Ano02q, Ano02r, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f, Ano02f, Ano05s]. **Parabolic** [RR02, SPW⁺00, ARRS09, AKV06, BR09a, GK03, HJ09, JH08, MP08, RSTB03, SK05, UPKN09, ZWS07, ZSP08]. **paradigm** [CBGI09, GK05, LSW06, OK06b, SW04b]. **Parallel** [ABHT03, BADG00, BLW01, BD01, CWWZ00, CP06b, CP06c, CGSS00, DPR00, DSB06, GTD00, GTD01, GW02, HS08a, KP00, LJ09a, MC04, dlFMBdlFM02, Mu02, PM00, QRHD00, RXH02, TZ03, TZL05, WZ00, ABZ⁺08, BPS03, BBW06, BCM09, BDS07, BUEG06, CTW⁺08, CCV03, CHB09, CWD08, CLS09b, EHST03, EHS⁺08, FHD⁺09, FMD⁺09, GHB03, Gib04, HVAC09, HC05, JA08, KSHS08, KKD08, KS07, LHR⁺07, LSS⁺09, LLRP09, LQ06, LZH⁺06, MC06a, MMKP08, MG05a, MC09, MC03, ML04, PSCB08, PPCW06, PLS⁺09, QFR04, RKE⁺07, SWB⁺06, SDR07, SLG⁺03, SA06, Tol07, Tol08, TDGP06, WGS06, WZ03, XDB09, YYT05, ZH09]. **parallel-wall** [BBW06]. **parallel/recursive** [Gib04]. **parallel/unstructured** [LZH⁺06]. **parallel/unstructured-multigrid** [LZH⁺06]. **Parallelization** [DDK06, FS00a, HJFW04]. **Parallelized** [OMK09, ZWL02]. **parallelizing** [WE05]. **paramagnetic** [KHdT⁺08, KM08b]. **Parameter** [Zad08, BV05, CGSR08, DR09a, FP08b, LJSM08, Sha05, TW03, vdDA06]. **parameterization** [CHG⁺07, LTWW07]. **parameterizations** [DAJ07]. **Parameters** [GST00, HFO01, AB05a, BLW04, EN06, KFIG06, Kou09]. **Parametric** [Mac00, XS07, BMN05, BGN07, BGN08, BBK07, Kou09, LRMB08, SK07a]. **Parametrized** [Pop00, Ngu07, Ngu08]. **Parasitic** [JTB02]. **Paraxial** [QS01, DDGS09, GS09a, GGRS08, QL04]. **parity** [VBJ08a, VBJ08b]. **parity-mixed** [VBJ08a, VBJ08b]. **Part** [CC07, CFGK05, CY05, FCGK05, HdGKG08, HT03, IX09, KM07b, KK05c,

KK05d, LG09, Lio06, NMM⁺07, NMH⁺07, PFSL07, SFDL07, SD05a, SD05b, TOZP03, Tol08, VBj08a, VBj08b]. **Partial** [AGT02, ABGV02, BCOS01, CKL00, FDK06, Hua01a, MF01, PCS⁺09, VB00, AGT05, AL06, Asl04a, BV05, CGP05, DI09, GBS06, KFIG06, LP04a, LCdCN⁺03, MK08b, MSO04, Ngu07, Ngu08, RBvdV08, RM08, SS08, SRNV07, XLS09a, YZ07, YZW05]. **Partially** [PWM06, Kwo08, MD04, Zad08]. **Particle** [AL01, Azm02, Bal02, BZ08, Bow01, CVB00, CPK02, CL01c, CSP01, CB02, ELC02, EFFM02, FPC⁺00, FR02, GVT01, HKKS⁺01, il02, KB00, Lap02, LM01, LDL⁺09, LK01, Par02, PM02, PH09, PPCW06, PFB01, QRHD00, RH01b, SSW01, Sni01, SPC01, Ver01, VCTS02, WK01a, WLC⁺08, Wea09, WHV⁺00, ZF02, ZKK01, ASPB03, AWK07, AMP09, ADR08, BST03, BZ04, BHR06, BOT05, BB09b, BB08b, BB09c, CGSR08, CL08a, CPKW09, CFL⁺03, CL08c, CP03c, CP07, CL03b, CEL06, DMHP07, DL03a, DFV08, DZ09a, DST07a, ECL02, Eld07, ESE07, FS09, FKV08, FHLO08, FHD⁺09, FHLK05, Fox08, FG06, FM06, GS09b, GK02, HGBH03, HD07, HNF07, HJKO08, HK05, HK08b, HK08c, HX05, HS04, HT03, HDR⁺06, HRV08, HS07b, HHM04, IITV07, JH06, JD09, KZWY09, KfV07]. **particle** [KP05, LJM⁺06, LGKP07, LK07, LMX⁺08, LWDA09, LZ09b, LZ09a, LM03a, LDW07, LKO05, LMH07, MP07b, MP08, MC06b, MCP03, MHW05, NBLQ09, NLLE06, NFA03, OK06b, PK05, PMP08, QFR04, SS09b, SWB⁺06, SWG08, SB06b, SSB07, SK08a, SK07b, SBC04, TOZP03, TM05, TMSW07, TKH09, TU04, VHI05, VHI06, Wal03, WYS09, WGCR07, ZK04, ZH04, ZP05, ZIP06, ZB07, ZL09, ZKS⁺09, ZZ09]. **particle-continuum** [SB06b, SSB07]. **Particle-Field** [SSW01]. **particle-flow** [AMP09]. **Particle-In-Cell** [Lap02, Bow01, CB02, LDL⁺09, Par02, QRHD00, Sni01, SPC01, PPCW06, CP07, FHD⁺09, FG06, GS09b, HDR⁺06, IITV07, JH06, LWDA09, OK06b, QFR04, SK07b, WGCR07]. **Particle-Laden** [WK01a, JD09]. **particle-level** [TU04]. **particle-localization** [HNF07]. **Particle-Mesh** [FR02, LK07, LKO05, SWB⁺06, Wal03]. **Particle-Particle** [FPC⁺00, TKH09, Wal03]. **particle-solid** [HS04]. **particle-source-in-cell** [JD09]. **particle/finite** [ZH04]. **particle/finite-volume** [ZH04]. **Particles** [AKV00, Gut00, HHL00, ADS03, AGW07, CGL08, DTS05a, DTS05b, FM04, GH09, Hew03, JVV07, KHdT⁺08, KMSH08, LK09, LKMK09, PH06, SK08a, SP04, SKW05, VMN07, VK05b]. **Particulate** [GPH⁺01, BCM09, DM03, DGMN03, FM05, LM03b, LMK09, Mar09, PH08, RMG⁺09, SP05a, Uhl05, WT07a, YSW06, YS07b]. **partitioned** [BNV08]. **partitioning** [MG05a]. **parts** [MN04, MN17]. **passivation** [GKJW07]. **passive** [BS06a, RSM05]. **Past** [HGM⁺00, PW00b, PW01, CHBS04, DCK08, GPH⁺01, JD04, KR09a, MAL09, Pai01, SLC07]. **Patch** [SKR06, KPP09, PDHP07, SO08]. **patch-based** [PDHP07, SO08]. **patch-refined** [KPP09]. **patches** [CLS09b]. **Path** [PWW00, Sto07, BLL03, CLMRP08, CM06, Wea09]. **path-consistent** [CLMRP08]. **pathological** [LJ09b]. **paths** [Liu08]. **Pattern** [HKV01, WWVG00, MWM03]. **patterns** [LT09a, SM09a]. **PCICE** [Ber06a].

PCM [FWK08]. **PDE** [CFS09, EV03, FSS03, FP08b, GS03a, HMR08, PBH04, Pro08, SBA07, SPLM09, TCO⁺04]. **PDEs** [AC00, ACY00, BMRS01, BMRS02, DGRS08, Dri02, JW09, Kro05, PL08, Ram06, RSTB03, RMO00, SV07, VBJ08a, VBJ08b, YBZ06]. **PDF** [LM03a, MCP03, AJ09, BFB08, CP03a, CRAG07, JPMC01, JML⁺01, LM01, LLRP09, MPC01, MPC02, RJ06, ZH04]. **Péclet** [MHS02]. **penalization** [CBGI09, KDK⁺07, KS09, LV07]. **penalty** [DDH05, DLD08, GLLN07, GLLN09, HH08, JLL⁺06, PR06, Sha05, WG09]. **penalty-projection** [JLL⁺06]. **penetrable** [BG09, HB05b]. **penetration** [TU04]. **Perfectly** [DH07, Doh09, GGOB04, Hu01, Hu05, Kan02, RJ04, SP05b, Vay02, BFJ03, BHNPR07, CLL⁺07b, GKD09, HLL08, Nat06, OK07b, PL09a, Rah04, ST04, Zhe07, dHRvdB07]. **perforated** [ME09]. **Performance** [ABZ⁺08, LSS⁺09, Pir07, STD⁺05, SS01a, WPM⁺02b, CGMS03, CFR08, DSM09b, NZ07, OK07b, PAD07, QKS06, WdND06, XYK05, dHRvdB07]. **period** [AKH06]. **Periodic** [BC01, TB00a, ZF02, CdHST08, Dur08, EZ08b, FCT07, GHB03, HB05a, HHM04, JCT07, KMS03, KH07, KG03, LCG07, LCCG05, MKOW04, OJW06, ON08, SNGAS04, SROCF03, SZB⁺07, SAK05, SLV09, vdV08]. **periodized** [KR09c]. **PERM** [MP08]. **permeable** [HST09]. **permittivity** [ZC09]. **Perspective** [ÉGP09]. **Perturbation** [LTZ03, UH01, ES03b, MDR07, Nic09, YHCD05, ZL04]. **Perturbation-based** [LTZ03]. **perturbational** [GB08a]. **perturbations** [CP03c, RV09]. **Perturbative** [NR01]. **perturbed** [AV03, CJR04, Jao07, LCW04, Moo07, SM06a]. **Petrov** [LSJA05, Ma05]. **Petviashvili** [LY07a]. **Phase** [AG09, BEA09, CFA01, ČPT01, Cha09, Cle00, EKK02, EF02, GS02, GW02, GW01, GP00b, JLCD01, MR00, MR02, MP01b, NDG05, OCK⁺02, PS01, SP00, WW00, WHV⁺00, Xu01a, YSC01, YZF⁺06, AW04, AMS03, BCB03, BFC04b, BIS07, BS03a, BJP04, CET09, CR05, CA06, CW08, CQRW05, CMR08, DM03, DDK06, DP07, DP08, DSS07, DS09a, DDS09, DLW04, EGHE06, EKP06, EKP07, FRS08, FYH⁺06, GFG09, GCNB07, GR07, GD07a, Her05, Her08, HZ07b, HA06, HA07, HA09, HWWL09, HH06, IKL⁺08, IOTK04, IS04, IH04, JLT06, KSO⁺05, KW03, LL05, LCB09, LMS08, LM03b, LHGF05, Low05, MR06a, Mar06, MKKY06, MR06b, MDS03, Mou04, MG05b, NMG09, OLA08, OK05, OKZ07, QS07, RMB07, RMG⁺09, RJM07, RMF08, RM07, SWK06, SY09a, SS06a, SYC09, SNLS03, SL07c, SB07]. **phase** [SXyWX09, SSH⁺07, TLK07, TMB07, TBT⁺09, TGB⁺07, TJLT08, XMT06, YZ07, YFLS06, YC06a, YC06b, YHCD05, YSS07, YF09, YE05, YZF07, ZDD09]. **Phase-Accuracy** [MP01b]. **Phase-Field** [GW02, MR02, BEA09, NDG05, YZF⁺06, BJP04, FYH⁺06, LCB09, RJM07, SY09a, SB07, TLK07, TBT⁺09, XMT06, YFLS06, YHCD05, YZF07]. **phase-lag** [MKKY06]. **phase-screen** [DS09a]. **Phase-Space-Based** [OCK⁺02, CQRW05]. **phase/vapour** [BW07]. **Phenomena** [BMS00, BP09, HGBH03]. **Phenomenon**

[PD01, Boy05b, DMG04, JS07, Lur07, SBA07]. **PHOENIX** [BvdHKG07].
phonation [LMZ⁺08]. **Phonon** [GT09c, VP00, GS05a]. **Photon**
[Cul01, Bar04, BS07, Cha07a, DMBS05, FEL⁺05, WMH07]. **Photonic**
[CD00, DGP00, SP05c, DD05, DBB06, ON08, YLA08]. **photonics** [DH07].
photothermal [CR08]. **Phys**
[ABRR09b, CL08b, DD03a, HMS08b, HY11, HLWW06, JJGL07, Lau06,
LM03a, MKM04, MN17, Mil07, SM09b, SCC⁺03a, WZL09b, dTWD09].
PHYSALIS [HT03, TOZP03, PO01]. **Physical**
[BBR01, FLG01, Hu01, AS03a, JLOT05b, JLOT05a, KDOO05, MR03, MK04b].
Physics [GTD⁺02, MKR00, CP06b, CP06c, LL07, MK03, PNMK09,
RWMK03, SHPC09, YKK08]. **Physics-Based**
[GTD⁺02, MKR00, MK03, PNMK09, RWMK03]. **PIC** [ADS03, CN08, CK07,
GCLB04, HKM07, HM09, Hew03, Kwo08, Lar03, SHPC09, TPR05, TS07].
Piecewise [BSP06, CS08a, KKGL01, SPW⁺00, UPKN09, BAYZ08, BMDS05,
ET06, GR04, Lab09, LTL⁺09, TLL⁺08, WA08, YJ06]. **piecewise-linear**
[GR04, Lab09]. **Piecewise-polynomial** [CS08a]. **piezoelectric** [LTL⁺09].
pinch [GGS09]. **pinch-off** [GGS09]. **pinching** [YFLS06]. **pinching-off**
[YFLS06]. **pinchoff** [NS04]. **pinned** [VCG03]. **pipe** [MT03, XLP05].
Pipelines [DC02]. **pipelining** [FHD⁺09]. **Pitaevskii**
[BJM03, CORT09, CJK⁺03]. **planar** [APP⁺07, AH08, CJR04, JOS06].
planar-symmetric [CJR04]. **Planck**
[BC02b, DDFT09, FP02, Lem00, PRT00, CBKM00a, CBKM00b, Den07,
DWLM09, KB04, LC03, UL06, WO05, WO09, XCRX08]. **Plane**
[Dar00a, MM01, Mie00, PG02a, PC02, BO09, DVHM05, Gab07, KMS04,
SL07c, Woo06]. **planning** [CM06]. **Plasma**
[CYKC01, DGH02, GBS00, GVT01, HHCL01, HMM02, hLA01, OL01,
RXH02, DMR09, DNS08, GHB03, GLS03, Hag07, HLS06, HDBW05, HF08a,
Hum05, KSHS08, Kwo08, Lar03, LDL⁺09, MT07a, Mot08, NC04, OK06b,
SDD07, She08, SL03, SK07b, SS04, TPV07, TPR05, VTC⁺07, WH05, ZK06].
plasma-vacuum [KSHS08]. **Plasmas**
[Cul01, HKKS⁺01, OMG02, SUW01, BvdHKG07, CDV05, CF04, DSM09b,
GWF⁺07, GGOB04, GLN06, GYKL05, GLT07, GL09b, HDR⁺06, LCB04,
LL08b, MD04, MSP⁺06, PPCW06, SG06, XCRX08]. **Plastic**
[GF02, HB02, Hun01, MC01, VQLZ04, ZVQ07]. **Plate**
[BISS01, CHBS04, FKK08, LWW04, YKG04]. **plate-mantle** [FKK08].
Plates [SCD00, GA09, JA08, LSJA05, MC06b, ME09]. **Platform** [DPRS01].
Plentiful [CHM08]. **PLIC** [LHGF05]. **PML** [LZC04, Rah04]. **PMLs** [QT08].
POD [BC08, BBI09, CBS05, SK04a, SKXK05]. **POD-assisted** [SKXK05].
Point [Bar02a, Par02, SMP01, TB00b, VDM⁺02, WLE⁺00, AFGM07, BM05,
CP03a, CWJ07, CWYM08, DVHM05, Eg07, FP08a, KK07, MDM03,
PHKF06, Tan05b, WG08, ZZVM08, dSM05, dFJS09]. **Point-Centered**
[SMP01]. **Point-Set** [TB00b]. **points** [BCEG07, HAP05, LC06b, SY09b].
pointwise [SB06c]. **Poiseuille** [DKS⁺03, PG02a, Sie00]. **Poisson**
[WO05, WO09, And09, AMLC08, BR01, BC02a, BC05, BJ09, BD01, BZ09,

CGMS03, CSS00, CDV07, Dys01, GS06a, GFCK02, GM06, GBGM01, GS09c, HPS06a, HZ02, IKS⁺09, JM05, Lai02, LLY05, LFK00, LW07, ML05, MP01a, MP02, MCGV04, Mil08, MGC06, NLE06, PB00, Poz01b, SSN09, SBCL06, VVM05, WWC07, WZ09, Zha02, ZS01]. **Polar** [CSS00, CL02, Lai02, MC00b, SR09a]. **Polarization** [CD00]. **polarized** [GCW07]. **poles** [BM05]. **Pollutant** [ZKK01, BES07]. **Pollution** [FCB02, SD00]. **Poloidal** [BT07a, BT07b]. **Poloidal-toroidal** [BT07a, BT07b]. **poly** [GIA⁺07, GIA⁺08]. **polycrystalline** [CP05]. **polydisperse** [LMV04]. **Polygonal** [WS01, GL08, LSSV07, LSV09, LS05b, YS08, ZL08a, dVGLM09]. **polyhedral** [AS07, BAYZ08, CT07, LSS06]. **Polymer** [GIA⁺08, AKH06, CFM09, CKPW07, FT06, HLFB07, LMK03, LWF⁺08, SXyWX09, VC03, YFBH07]. **Polymers** [FS00b, SK06]. **Polymorphic** [GLMH09]. **Polynomial** [DGF09, ABHT03, BS06a, Boy05b, CS08a, JS07, LX09, MN09b, PW07, QM03, RM07, SZ05, WK05, XK03, YS06, ZL04]. **polynomials** [Boy04, LBS⁺04, SR09a]. **polysaccharides** [TLAD04]. **pom** [APP⁺07]. **pom-pom** [APP⁺07]. **poor** [FRS08]. **population** [CPKW09]. **Pore** [ZF02]. **Pore-Scale** [ZF02]. **poroelastic** [BQQ09]. **Porosity** [JWSC00, JW02, JW03, RC06]. **Porous** [CS01c, CS00, Str01b, WLE⁺00, ZF02, AT09, BW07, CP05, CDE06, GZ09, GH08b, HJ09, JLT06, KT07, LTZ03, LMS08, LH05b, LJ06, MZ08, MJT06, MP05, NL08, PC06a, RGS04, RC06, RM07, TJLT08, YE05, Zad08, ZL04]. **posed** [Meh04, Rah04, vdDA06]. **position** [Che04]. **Positive** [Jan00, LL03c, San01, BD06, CKLS05, EZ08a, ML06b, Waa09]. **positivity** [AB05b]. **post** [RC09b]. **post-processing** [RC09b]. **Posteriori** [MPP01, Dwi08, Ngu07, SVH⁺06]. **Postexposure** [Li01]. **Potential** [HSK00, KT07, PC02, PO01, ABK09, BEE06, CS05, Del07, GD07b, HB05a, JR03, JR04, KW08a, KJ09b, MG07a, Mil08, NG06a, NLT07, OLLL03, OCF08, Sac07, SCT06, SB09, YCL05, YF09]. **Potential-based** [KT07]. **Potential-Theoretic** [HSK00, HSQ03]. **Potentially** [CH01]. **Potentials** [HAAO00, CB07, HO08b, SH07b, Tau07, VB08]. **Potts** [VCG03]. **Powell** [HCG01]. **Power** [SM04, GB08b, Mil06, Mil07]. **power-law-like** [Mil06, Mil07]. **powerful** [Sau04]. **powers** [Boy09]. **pp** [Aza09, SM09b]. **PPM** [CS08c, SWB⁺06]. **PQM** [WA08]. **Practical** [Hua01a, Abr06, LC06a, Yok07]. **precipitation** [TMSW07]. **precipitator** [LWW04]. **Precipitators** [BISS01]. **Precise** [BCGR05, KW08a]. **Preconditioned** [DMG00, Hua07, MVD04, MG02, AMLC08, BPS03, BH04, CP06b, CP06c, HLY09, HC05, Lee05, Lee09, LZH⁺06, MYW07]. **preconditioner** [AHPT07, APT09, EHST03, EKP07, GGMN⁺09, GT05, Gri09, KSO⁺05, Lab09, LSS⁺09, RWMK03, RKE⁺07]. **Preconditioners** [BFG08, BT09, CdHST08, EHS⁺08, GH03, STD⁺05]. **Preconditioning** [Azm02, Ben02, DD09, Gla01, Hel05, HC08, MKR00, SC01, Yam05, HO08a, IF09, LZL03, Lee07b, MY03, MK03, NOG08a, PNMK09, PPB09]. **Precursor** [DW09]. **predictability** [CC08a, HMA05]. **Predicting**

[CSC⁺08, CGM07, LSK06, MS08b]. **Prediction** [CKL00, KIH09, SMS08, APP⁺07, CC08a, HL04, Ler06, Löh04, Lyn08, NLT08, PGN08, SW08c].

predictions [EHD08, HPD09]. **predictor** [CPKW09, CMSZ09, LRS09, TWYC06]. **predictor-corrector** [CPKW09, CMSZ09, TWYC06]. **predictor/multi** [LRS09].

predictor/multi-corrector [LRS09]. **Preface** [Kou08, OKV07, OT01].

Prefactored [Hix00, AZ03, PSG05]. **Preliminary** [DP00]. **premixed** [MMPB07, vdBG09]. **preprocessing** [SK04b]. **prescribed** [Xu08].

Presence [CS00, AV03, HP04b, LSK06, MLFG06, PIN09]. **Preservation** [Car01, BD08, IS04, MY07, SCC09]. **preserves** [CS08c]. **Preserving** [BS00a, CRB00, CL01b, DDSV09, LW01, RM01a, SH07c, TR02b, TS02, AS05b, AT08, AB05b, AMSZ03, AMS04, BLM08, BD06, CGL08, CS09, CLS09a, CDV07, DT04, JW06, Kok09, KWD07, KSW03, LFS07, LS05a, LLZ07, LW04, MS03, ML08, MOG09, PSG05, QM03, RGK07, SLV09, VV03, Wen06, XP04a].

Pressure [AMLC08, BT02, Cod01, JL02, LLIK01a, LLIK01b, MD01, Pet01, SS02, AMH04, CSL08, EZ08a, GR07, GS09c, JL04b, KIH09, MTV08, MB04, MDS03, NVD05, NMS07, Pap08, Pon06, RVM07, RVD09, Ros03, SAM05, Utn08, vBK03]. **Pressure-Based** [MD01, SS02, MDS03].

pressure-corrected [MB04]. **pressure-correction** [MTV08, RVM07, RVD09]. **pressure-invariant** [vBK03].

Pressure-Poisson [AMLC08]. **pressure-velocity** [Pap08].

pressure/density [Ros03]. **primal** [AAC07]. **primitive** [BG07, CTT08, HHPW08, IHL03, KSO⁺05, PHW08, SHTB09].

primitive-equation [PHW08]. **primitive-variable** [SHTB09]. **Princeton** [KN09]. **principal** [LM08b]. **Principle** [Rom02, SSSWD00, Abr06, KSS09, MGS09, SPGR06]. **principles** [WD07].

prior [RBT03]. **priori** [KK09, Ryc05]. **priority** [Pau07]. **probabilistic** [FWK08]. **Probabilistically** [ABLS05]. **Probability** [Pop00, MJ07].

Problem [AKV00, AQV02, BS00b, BSB01, CSV00, Del01, FS00b, IYI⁺02, IFZ01, KLvBvL02, LR01b, MPP01, MM01, MN02, Mit00, Poz01b, PG02b, Stu01, TK02, WB01, Abr07, Abr09, AW04, BL09a, BBD04, BFC04a, BCE⁺09, BTT08, Bia03, BO04, BEA09, BP04b, CFS09, CT08a, CDR09, CMG09, DB04, DHM03, GH03, GF05a, GKL03, HEN09, HZ07b, Hoh06, KH09, KNH05, Lee07b, Lee07a, Lee09, LS07, LSS06, MRRS05, Meh04, Mil08, NLT07, QCGQ03, RVM07, SWK06, SL04, SY09b, Sou09, SRX07, TPV07, VP09b, XSG04, YYF09, YE07, dVGLM09]. **Problem-Independent** [BSB01]. **Problems** [Alb00, AL01, ADK00, ADK02, BR01, Bar02b, BMR01, BCOS01, BS01, BK01, CWT00, CM00, DCS00, DKX00, DKX01, DFT01, FGG01, GP00a, GK01, HAAO00, HFO01, Kan02, KJ01, LLH02, LTZ02, MR00, Man02, NC01, OKL01, OS01, PR01a, PL01, RW00, RRL01, ST01, VG01, VSMW01, ZRR00, AE03, AM03, AM04, Abg06, APTJ⁺04, ABLS05, ARRS09, AFGM07, ACR08, AG09, AQ07, BS04a, BB08a, BDRT09, BBD04, BFC04b, BBMB07, BHNPR07, BM05, BF08, Bey09, BS07, BG05a, BS05, Bor07, BSLN09, BLM03, BG05b, COV04,

CT04, CC03, CBGI09, CELS07, CS08a, CXZ09, CS07c, CHG⁺07, CS06, CS07d, CT07, CFJ09, DPRN05, DPRN06, DIL03, DT03, DG09, DR09b, EZ08b, Eg07, FM04, FF03, FCGK05, Gab07, GZ07b, GT05, GN07, GM04, GP05, GK04].

problems

[GL08, Hab04, HJ09, HO08a, Hel09b, HMMR04, HY09, HY11, HF08b, IG05, JBHK08, JVV07, JLT03, JH08, JC06a, JC06b, KP07, KK03a, KW08a, KZ04, Kau03, KEB⁺07, KFV⁺05, KS08b, KKO04, KPP07, KSS09, KS07, Lap04, LSA06, LZL03, LZ09b, LCW04, LHZW05, LDW07, LNXNTX09, Low05, Ma05, MTV08, ML05, MS08a, MMS04, MR07a, MNR07, MN09b, MSO04, MY06c, MR07c, MG05b, NPH09, NU09, ND04, NG06b, NL09, ON08, ODCK07, Ovt08, OMK09, Pap08, PS03a, Pir07, PSM08, RMGK04, RCB05, RDPN07, SKR06, SLV09, Shy04, SC09a, SL07c, SM06b, SHPC09, SPLM09, SN06, TWYC06, TD07, Tor03, TB04, TY07, UBRT07, VGCN05, VK05a, VSH04, VZSL07, WFTS05, XMT06, XHW07, Yam05, YAvdB⁺08, YH07a, YCL05, YJF⁺06, YZW07, ZG08, ZSP08, vOP04, vdDA06].

Procedure [DIV00, JK00, FDD07, LP06b, MKKY06, Mil05, Mil06, Mil07, ML06b, SHPC09, UL06, WYS09, XMT06]. **procedures**

[BNV08, Cam03, CTW⁺08, Hua07, Roy05]. **Procesi** [FL09]. **Process**

[JK02, LRN⁺02, Li01, Cam03, GS03b, KK05d, LL03b, LLTA07, YKK08].

Processes [LBD02, AT09, Chr04, FLB03, KMV03, Lau06, MDJS07, SS06b, SL06, VSV03, VK04]. **processing** [ALT08, FSS03, RC09b]. **processors**

[GD08, KWBH09]. **produced** [KFH⁺04, KFIG06]. **product** [Gel06].

production [IR09]. **Products** [CSV00, DP07]. **Profile**

[YXU01, LMK09, UYK⁺04]. **profiles** [CP07]. **Program** [BSJ01, WBM09].

programming [CVE06, DTSC04]. **Progress** [Jan08]. **progressive** [CF06a].

Projected [SWTM01]. **Projection** [AGP01, AP02, BJ00, BJ02, BCM01, CM00, ERT02, GQ00, LKNG01, LRN⁺02, LMS02, LB03b, MC00a, TC01b, VSMW01, WGCE01, AV05, GBC06, Gri09, GF05b, HO03, JLL⁺06, KKM08, LRZ04, Löh04, MZ08, MCG08, MG06, MK07, Ni09, PFSL07, SFDL07, SB06c, TC07a, Utn08, Vos06, XSL09, YP06, YSS05, ZP06]. **projection-type**

[Löh04]. **Projections** [SS01a]. **Projective**

[KEB⁺07, SDD07, GK03, RMGK04]. **Prolate** [Boy04]. **Prolongation**

[TR02b]. **proof** [Bea08, Boy06, KS08b, WZ07]. **Propagating**

[SFW00, AS03b, BBF⁺08]. **Propagation**

[BM01a, Dur00, ERT02, FT01, GHV00, GKL00, HHCL01, HK02, LL00, LMSV00, MN02, MHS02, Noe00, RTT01, Wee02, BP09, BG05a, BS06a, CN08, CHG⁺07, CBI⁺04, DNS08, DS09a, DDGS09, EV03, FCJ08a, GD06a, GGOB04, GGRS08, HLS06, HSQ03, HPS⁺06b, KT06, Lau04, LNGK04, LKNG04, LK07, LTE07, MN06, MHI08, MR04, Pir07, PSG05, RBL04, Ros06, Shy06, Thu08a, Tok06b, Vol04b, XS07, ZB07]. **Propagational** [CSV00].

Propagator [WH05, IH04]. **propellants** [SMGJ09]. **propelled** [HK08b].

proper [CRB⁺08]. **Properties**

[JMP02, KMJ01, Per00, Saf00, Saf02, Vas00, ZSP02, BIS07, Ber06a, GMH06, HR07, Jor07, LKE04, NE05, Pir06, RH05, SW08b, SVB09, VBL07, XLM07].

Property [VS02, WP09, XS05a]. **propulsion** [SMP09]. **PROST** [RR02]. **protein** [GPVB07, MSP⁺06, XJ07]. **Proteus** [FM05]. **Protoplanetary** [dlFMBdlFM02]. **Prototypical** [VR02]. **provable** [GGF03]. **Pseudo** [Gom08, KvdVvdV06a, WPH00, HSBG05, HL07b, KKS05, SO08, THL06, YYT05]. **pseudo-compressibility** [KKS05]. **Pseudo-spectral** [WPH00, HL07b, THL06, YYT05]. **Pseudo-time** [KvdVvdV06a]. **pseudo-timestepping** [HSBG05]. **Pseudo-wave** [Gom08]. **Pseudopotential** [CWWZ00]. **Pseudospectral** [BRB03, KT05, BS08a, BM05, BS05, Boy03, Boy04, BP04b, CB03, LT09a, PSD09, SZLW06]. **PSM** [ZWS07]. **Publisher** [Ano03y, Ano03z, Ano07-32, Ano08-51]. **pulsating** [HAP06]. **Pulse** [HHCL01, XS07]. **Pulses** [SFW00, Sau04]. **pure** [BACFT05, De 04, NDG05, YU05a, YSO07]. **pure-compact** [BACFT05]. **purely** [Jao07]. **Purpose** [DPCV02, ALT08, Kuz06]. **PVM** [dlFMBdlFM02]. **pyramid** [HLWW04, HLWW06].

QALE [YM07]. **QMR** [CP06c]. **QR** [Boy02b]. **QR-Factored** [Boy02b]. **Quadratic** [DDS09, Dur00, CHL09, CVE06]. **Quadratic-Finite-Element** [Dur00]. **quadratically** [Gon07]. **Quadrature** [DKTT07, SCD00, DFV08, FLM08, Fox08, Fox09, HWL08, HO08a, MRC06, NG06a]. **quadrature-based** [DFV08, Fox08, Fox09]. **Quadrature-free** [DKTT07, HWL08, MRC06]. **quadratures** [Chr03, DR09b]. **quadric** [TW03]. **Quadrilateral** [HLKS00, SCD00, TC01b, ZYC02, BMT09, DPRN06, KT03, KT05, MJT06, NE05, YSS05, ZSC08]. **quadrilateral-mesh** [ZSC08]. **quadrilaterals** [PR04a]. **quadtree** [Gre04]. **Quality** [CBH03, SMO00, CSC⁺08, KK09, RMV03, SDCC05]. **Quality-improved** [CBH03]. **quantification** [BPM06, CDE06, DEHL06, KG06, PDL09, YZL⁺06]. **Quantifying** [HMA05]. **quantitative** [GR04]. **quantities** [AS03b]. **quantized** [DJ04]. **Quantum** [DE02, GM01a, JMK01, Lin02, MESV09, MK04a, RS02, dFGLS05, dFJS09, BP06, BMN07, BCCV09, BNNP06, CL05, CL08d, CLL⁺07b, DDD05, DGM07, DDDC07, HLWW04, HLWW06, HWW07, JSCZ08, JN07, Kar04, KLW09, LYC09, NTO⁺07, PA05, PVR07, Ram03, SB06a, SHY07, TW03, VTW⁺07, Vos06, WBM09, YHSX07]. **quantum-classical** [BCCV09]. **Quantum-corrected** [dFGLS05, dFJS09, CL08d]. **quantum-mechanical** [DDD05]. **Quartic** [SKAS01, WA08]. **Quasi** [CK08, CDV05, MY06a, MOvL00, QS01, VD00, AI09, BS04b, DT03, EZ08a, FHD⁺09, FHLK05, Gla05, HH07a, LCB04, LL09, MPD03, DDS09, Yeh07]. **Quasi-** [QS01]. **quasi-elliptic** [DT03]. **Quasi-equilibrium** [CK08]. **quasi-geostrophic** [MPD03]. **Quasi-monotonic** [Yeh07]. **Quasi-neutral** [CDV05, LCB04]. **Quasi-One-Dimensional** [VD00, AI09, BS04b]. **quasi-positive** [EZ08a]. **quasi-spectral** [LL09]. **quasi-static** [FHD⁺09, HH07a]. **quasi-steady** [Gla05]. **Quasi-Steady-State** [MOvL00]. **quasicontinuum** [KLP⁺09]. **Quasihyperbolic** [PS02]. **Quasilinear** [LAS01]. **Quasineutral** [LJM⁺06, CDV07]. **Quasirandom** [AC01].

quenching [LLOT06]. **Quest** [Abg01]. **Queue** [JRS05, Pau07].
Queue-based [JRS05]. **QUICKPIC** [HDR⁺06]. **Quiet** [Pet07, SCW⁺09].
QWalk [WBM09].

r [MK08a]. **r-adaptive** [MK08a]. **R3M** [YH07b]. **Radial**
 [SUW01, TW03, CQO04, FW07, FP08b, HF08a, LJW07, MT07b, RA09,
 SC08a, TB09, WF06, Yin06]. **radially** [KLSW09, LLS09]. **Radiation**
 [BKR⁺01, DW00, DV02, HSK00, HG03, MKR00, SMP01, TSG⁺06, UH01,
 BKS07, BMDS05, BSP06, BSW05, BD06, Cha07a, Cha07b, DS05b, Dic08,
 DST07b, ED07, GT05, GCLB04, KLM07, KAS08, Lau04, LWG03, MR07c,
 MK03, OS04, Ols07, Ols09, RHPN09, RW08, RV07, SO08, dA04].
radiation-diffusion [OS04]. **Radiation-Hydrodynamic** [SMP01, SO08].
radiation-hydrodynamics [RHPN09]. **Radiative**
 [BS00b, DK02b, Gen01, KM03, LTK⁺02, CS03, DL04, DUEB07, EULM03,
 FDK06, FKLY07, KNH05, MHB08, MELD08, MU09, MAN⁺06, PS07c,
 Thö04, TFDK04, WHS08, WMH07]. **radiative-transfer** [DUEB07]. **radii**
 [CXB08]. **Radio** [HMM02, GGOB04]. **Radio-Frequency** [HMM02]. **railway**
 [LGN05]. **Raman** [BCG09, HS07b]. **ramified** [AST07]. **Random**
 [BJ00, BJ02, DDG02, FGOV00, FV01, LRN⁺02, ARRS09, AZ06, DGF09,
 DI09, DC08, FG05, GZ07a, GZ09, GS09a, KF06, KKS07, LLTA07, MZ08,
 MS04, Pet07, ST06, SRNV07, VSV03, WP09, XS09, ZL04]. **Random-Field**
 [FV01]. **randomized** [ZGSD06]. **randomly** [HLRZ06]. **randomness**
 [WB09b]. **Range** [FPC⁺00, BDS07, FT09, HPS⁺06b, LTZ03].
range-limited [BDS07]. **Ranges** [GST00]. **Rankine** [JR09]. **RANS**
 [KMID05, KAS06, LS02a, SRM09, Tuc03, WK07]. **RANS/LES**
 [LS02a, SRM09]. **Rapid** [Lau04, Saf02, hRT02, BGR08, GPVB07, Nic09].
rapidly [KB08]. **Rarefied** [FS01, Mac01, Myo01, AK09, BB09c, GC06,
 KAA⁺07, LZ04, Mac03, Myo04, SFX03, SBC04, VS09, VVS08, ZRS06]. **rate**
 [CMG09, OLA08, Tow08]. **Rates** [GGL⁺01, GP05, Oh04]. **Ratio**
 [AJG01, Car01, BJP04, JA08, LL05, LF04, YZ07, ZSC06]. **Rational**
 [PSD09, BM05, BRB03, Boy05a, CFJ09, ZC09]. **ratios** [DSS07]. **ray**
 [Min07, THN⁺07, RR07]. **Rayleigh** [CA06, GGL⁺01, TM05]. **rays** [MR06b].
RBF [SPLM09]. **re** [LZ09c, BEE06, KM06, KM07b, PWS⁺02]. **re-entry**
 [LZ09c]. **RE-squared** [BEE06]. **Reacting**
 [ML01a, CGP05, CP06a, DHM07, DBS06, FL07, LM04, MLS⁺05, NS05, SK03].
Reaction
 [BJ00, Li01, MOvL00, RRV01, SWL00, SSC00, DC07, ELW04, GC06, HK06,
 HMR08, LRS07, LLOT06, MJ09a, Mad06, MM07, MMKP08, MG07b, Moo03,
 Moo07, Pud06, RSO04, RS05, RS09a, STD⁺05, VSH04, XDC09].
reaction-advection-diffusion [Pud06]. **Reaction-Diffusion** [Li01, SSC00,
 LLOT06, MJ09a, Mad06, MM07, MG07b, Moo03, Moo07, RSO04, RS05].
Reactions [LX00, MEG02, SSC00, BCK09, KW03, OLA08]. **Reactive**
 [BM01b, HLZ02, JPMC01, MPC01, MPC02, dSAK00, AT05b, Bil05, BLM03,
 CFL⁺03, DGJ03, HS03a, HS06, LMS05, RP08a, TMSW07, dDEK09].

Reactors [PCCD00]. **Real**

[Mit00, OB02, DDDC07, RBK09, SH07b, dWKL07]. **real-space** [dWKL07].
real-time [DDDC07]. **realistic** [CP07, FHJK09]. **realizability** [PSMW09].
Realization [ZSC07]. **recast** [MYW07]. **receptivity** [DS06b]. **Reciprocity**
 [GHG01]. **recirculating** [RMG⁺09]. **reconstructed** [VCG03].

reconstructing [YJ06]. **Reconstruction**

[BISS01, DS08, HKS09, LS02a, RR02, SJ02, SR00b, ZC09, AS07, ÁDIM09,
 AMS03, AMSZ07, BO05, Bal09, Boy05b, Cap09, CR08, DDS09, GSB03, JS07,
 LSD07, LL04b, LHGF04, MP08, OK04, SGFL09, SAKDJ05, SS07b, TMD⁺08,
 VB09, XLM07, XLS09a, XLS09b]. **reconstructions** [MLFG06, TB06].

Record [SSSWD00]. **Recreate** [SSSWD00]. **rectangles** [Bia03].

Rectangular

[BdLL01, SZ00, CN05, HK08a, KPK09, NMM⁺07, Ni09, PKD07].

recurrence [CL08a]. **recursive** [DSB06, Gib04]. **recycling** [LP06b]. **red**

[LL06b]. **Redistancing** [CT08b]. **Redistribution**

[RW00, AMS04, DG09, TLK07, TTZ03, WW04, WT07b, YT07]. **Reduced**
 [CKF02, CKPW07, DR09a, KG08, LP00, TLAD04, BKST09, BC08, CRB⁺08,
 CBS05, KT07, LP07a, LB03b, MG05b, Ngu07, Ngu08, PCP08, QA09,
 SVH⁺06, SK08a, YH07b]. **reduced-basis** [Ngu07, Ngu08]. **reduced-order**

[BC08, CRB⁺08, CBS05]. **Reducing** [Vil08]. **Reduction**

[hLA01, SD00, ACGV07, AG09, BPMR08, BTWGvBW07, CK08, DL03a,
 FK07b, GZ08, LD06, MN09b, MKL06, MV06, PS07c, RA09, RFVP09,

VP09a, VK05b, ZSW07]. **Reference** [KMS02, PK07]. **Refined**

[GW01, DP09, FHW07, Her08, KPP09]. **Refinement** [Alb00, AGT02, Bal01,
 DGH02, DI02, FH00a, AGT05, AEP04, BC05, BV05, BFG07, BL05, CR07,
 CBH03, CBI⁺04, CFJ06, FM06, HS06, HS08a, HG03, KAA⁺07, KPP07,
 LP04a, LL04b, LK09, MCGV04, MC07b, MHE06, PSCB08, PDHP07, PCP08,
 PL04, PC06b, RFFP06, SRX07, TFD06, TK04, YF09, dTDI⁺07].

refinement-based [CR07]. **Refining** [BH09]. **reflecting**

[AB03, GN03, NN04, PWM06]. **reflection** [BS04d, Sof09]. **reflectometry**

[dSHHM05]. **Reformulation** [iI02]. **Regime** [BJM02, BKR⁺01, BC08,

GC06, LQ09, LD09b, RB09b, SKK⁺08, SE04, VLB09]. **regimes**

[CGL08, FK09a, JD04]. **region** [BC08, HE07]. **Regional**

[Ano08-50, Lap08, SDCC05, SM09b]. **Regions**

[Bal02, CFA01, Cal02, MG07a, VRM07]. **regressing** [SMGJ09]. **regridding**

[WAH09]. **regridding-remapping** [WAH09]. **Regular**

[GC02a, LSSV07, YXLF05, dA04]. **Regularization**

[Poz01b, BT07b, BHSV07, CT04, CCT05, MK08a, PBH04, SY09b, vdDA06].

Regularized

[BOT05, ADE⁺08, CFS09, FP08a, GE07, Kry04, SDT08, TS08, WKL07].

Regularly [HM08, Moo07]. **regulation** [JR07]. **Reinitialization**

[HMS08b, HMS08a]. **Related** [RMO00, ON08, RSSL09, RSS09, Tol08].

Relation

[CL01b, LP01, CS09, CLS09a, KK09, LS05a, PSG05, Ros08, SLV09].

Relations [CL01a, SZ00, YJ06]. **Relative** [Cam03, RS02]. **Relativistic** [SZS01, BH09, BLG⁺08, DZ09b, FKV08, HJ07, HGB⁺03, KQW03a, KQW03b, MK04a, QW05, SK08a, SA09, ZSW03]. **Relaxation** [BR09a, BBR01, Car01, JP00, LP01, Pal08, BKS07, BN09, DP08, Del03b, Küm04b, LSL08, Low04, PFSL07, PA07b, RSM05, Ros08, SFDL07, SPB09]. **relaxation-projection** [PFSL07, SFDL07]. **release** [Oh04]. **relevant** [Vos06]. **reliability** [LXM09]. **reliable** [EN06]. **Remap** [ALGM01]. **Remapping** [DB00, NJX09, KSW03, LS05b, MS03, SPM03, WA08, WAH09]. **Remapping-free** [NJX09]. **Remark** [LS07, RS00]. **Remeshed** [CPK02, CFL⁺03]. **remeshing** [AZC05, BIVC07, MK08a, MV08, WG06, ZLAC05]. **removal** [LLB05]. **Removing** [HS08c, DL03b]. **renormalization** [HJFW04, Sti05]. **renormalized** [CMP07]. **repair** [LSW06, SW04b]. **Reply** [CKR01, LM03a]. **Representation** [AKV00, FF02, MR01, Sum00, BHP07, CCT05, DGF09, HW08, KAK03, SAKDJ05, TW05, TRSK09, TR07, WL06]. **representations** [SL06]. **representing** [BP08]. **repulsive** [ABK09]. **requirements** [MWM08]. **requiring** [BEPT09, SS09b]. **rescaling** [LLL07]. **research** [SK08b]. **reservoir** [LCH03, MC04]. **reservoirs** [SE09]. **reshocked** [LSD07]. **Residual** [Abg06, CRD02, DPRN06, LC01, RCD05, TS01, WB01, AM03, AM04, CS06, CS07d, EULM03, Nis07, RAD07, RB09a, Ros08]. **Residual-Based** [LC01]. **residual-distribution** [Nis07]. **Residuals** [Boy02b, CB07]. **Resistive** [CKF02, RVVL09, DZ09b, GTMC08, LTC07, ODCK07, PCP08, RSW06]. **resistivity** [GTMC08, HPS06a]. **resistor** [KF06]. **Resists** [Li01]. **REsolution** [KG09, Coe02, FCB02, GF02, GP00b, JK00, KB00, KT00a, KT00b, KMJ01, MWM08, MD01, Noe00, PW00b, PW01, SZS03, WPM02a, ZTZ02, ASPB03, BSKH07, BBCT09, BOT05, BTW03, CLG07, CC04, DE06, Del07, DDFT09, FF03, GLN06, GD05, HLS06, HH06, Jor07, JS07, Kou09, Kry04, KT04, LG09, LSD07, LNGK04, LYC09, LR03, MM09, OF06, SWK06, SYG06, SHY07, SJHM09, SL07c, TDWY08, ZW03, ZYHS07]. **Resolved** [DSS00, AMP09, Bar04, SMP09, TV08, WB09b]. **Resolving** [YT07, LTC07, NK08, SMT⁺08, SSW⁺07]. **Resonance** [OL01, GLS03]. **Resonances** [BP06, Lin02]. **resonant** [BNNP06, BS04d, DGM07, RMV03]. **response** [CDI09, HSZ04]. **responses** [WB09b]. **resting** [NLT07]. **restricted** [HST09]. **Restriction** [TR02b, KSGF09]. **restrictions** [KDW08]. **restructuring** [SS07b]. **Results** [OF01, SSSWD00, MPD08, NFvS⁺06, NDG05, VBL03]. **resumming** [LBS⁺04]. **resurrected** [HSC09]. **Retrieving** [LR01b]. **Revaluation** [IM07]. **reverse** [HS07a, RMGK04]. **reversibility** [DOW08]. **Reversible** [LR01a, RE07, PH09]. **Reversible-equivalent-monomolecular** [RE07]. **Review** [Roy05, FSS03]. **revised** [Wan04b]. **Revision** [Neo07]. **revisited** [LOK05, MC07a]. **Revisiting** [FLG01, Rid00, SD06, WE05]. **revolution** [FWW04]. **Reynolds** [Cor00, DKS⁺03, DDH05, FG02, MT03, NMM⁺07, NMH⁺07, OTCM08, OVG07, PPDM08, SDGX07, Vik03, XP04b]. **Rezone**

[KMS02]. **Rezoning** [Lap02]. **RF** [hLA01]. **Rheology** [LL06b].
Rhonegletscher [JHB⁺09]. **Richards** [ZSWW03]. **Richardson** [RB06].
Richtmyer [LSD07]. **Riemann** [AW04, BDRT09, BTT08, BZW01, BH05, CT08a, DP07, Del01, Geo08, Gui05, HAI09, il02, KLLJ09, KSW07, KLvBvL02, LMS05, LP01, Li05, LS07, MN02, Mig07, Mil04, MK05, NK08, QCGQ03, RBT03, SWK06, SL03, SHTB09, TT06a, Tor03, TB04].
Riemann-Problem [KLvBvL02]. **Rigid** [Bus00, GPH⁺01, AMP09, BCM09, BGS08, CC08b, DMHP07, Eld07, Fas03, LKP06, San03, SP05a, TZL05, TLK09, TG06, VMN07, Vil08, WT07a, Xu08, vLAvdV06, vZS07].
Rigid-Body [Bus00]. **rigorous** [CY05]. **Rigorously** [OMG02]. **ring** [QFR04, SDT08]. **Rings** [MKM99, MKM04]. **ripening** [Hor06]. **Rising** [Dar00a, HL07c, HSL08]. **River** [SSL00]. **RK** [AHNS09]. **RKC** [VSH04].
RKDG [BAMD07]. **Robin** [BNV08, JZ08, LSA06]. **Robust** [Azm02, JWSC00, JW02, JW03, KLLJ09, KF06, MJT06, MG08, MLS01, BB109, BB09b, CFR09, CL07a, CL08b, DCF⁺08, FK07a, FE04, HNF07, HM05, KK07, LH08b, MTV08, NLF03, SP06a, TAL09, VPMC04, vDZ06].
Robustness [Ber06b]. **rod** [BCZ04, HO06]. **rod-like** [HO06]. **rods** [GPL05, LN09]. **roe** [KD09, GV02, Jan00, sKKRH03, sLwG08, RBT03, RMF08]. **roe-average** [KD09]. **Roe-type** [sLwG08]. **Role** [AC00, ACY00, AGP01, Mai04]. **Root** [Bor00]. **ropelength** [MR03]. **Rosenau** [RV07]. **Rosenbrock** [DCS00].
Rossby [CF06a, SD06]. **rotated** [NK08]. **rotated-hybrid** [NK08]. **rotating** [AB07, BW06, BvdHKG07, FBHV05, GG09a, Gir06, PK07, SJ04, SS07a, VBJ08b]. **Rotation** [HGM⁺00, HF08a, LMN⁺09, YGL05, ZSC07].
Rotations [Bus00, BPO07]. **rotors** [EHD08]. **rough** [Nic09, TX06, WWC07]. **Roughness** [WWC07]. **round** [Vil08]. **round-off** [Vil08]. **Routh** [MD02]. **Rudy** [TK04]. **Ruin** [SSSWD00]. **rule** [dSM05].
Rules [ADK00, ADK02, HvHHS05]. **Runge** [AHNS09, Bal08, BP09, Boy05b, BSB01, CFR04, Dri02, HL06b, HyLL07, KCGH07, KHV01, KWD07, KDW08, LX07b, Lur07, QS04, QKS06, QLK07, Rei00, STR07b, Tan05a, ZP06, ZQSD08, ZQ09].

S [JTL09, LNXNTX09]. **S-shaped** [JTL09]. **Saffman** [FS06]. **Salpeter** [Mai03, Mai04]. **sample** [FHJK09, HMA05]. **sampled** [Mil05, TPVG06].
Sampling [Pop00, Cam03, CTW⁺08, KS08b, KLV09, Sto07, Wea09, vEB05].
satisfying [CkM07, KSS09]. **saturated** [AT09, GH08b, Vol04b, WGNT06, Zad08]. **Savage** [FNBB⁺08]. **scalable** [BP07, ZG08]. **Scalar** [BTFY01, CDKP00, GBGM01, TS02, WL02, BD08, BP03, CRAG07, FS09, GD07b, Hub07, IA06b, KI05, LY07a, LRMB08, LFX05, RSM05, RBS06, Ros09, TT05b, Asl01, Kuz06]. **Scalar-Tensor** [BTFY01]. **Scale** [AS02, ATV01, BADG00, CR02, EKK02, Gra06b, KS02b, LR01a, VG01, ZWL02, ZF02, AE03, AHF04, AC09, BBMB07, BJ09, BSW05, BTWGvBW07, HBLD07, JLT03, JLT06, JL09, KM06, KM07b, KCMM03, KE09, LZL03, MN09a, OK06b, OK07a, PKKL05, PM08, PS03b, RWMK03,

SHPC09, SK07b, UBRT07, VP09a, VK09, VTM⁺08, WL03]. **scale-invariant** [KE09]. **Scale-separating** [Gra06b]. **scales** [AKP07, ELVE07, JG09, Ngu08]. **Scaling** [PC08, Abr09, SLG⁺03]. **Scattered** [WF06, Dic08]. **scatterers** [DBF08]. **Scattering**

[Bal02, BK01, CY00, DDF01, DFT01, GK01, Gro00, Gut00, Lin02, Stu01, AL06, ACR08, AG09, BHL07, BL09a, BHNPR07, BA03, Bot06, BH04, CJSS08, CLLG09, CDR09, DH04, DWLM09, DBB06, DR09b, FNS07, FHJK09, FWW04, GG04, GH08a, GK04, GK07, Hoh06, HB05b, IQT08, LZL03, Lee07a, MR07a, Nic09, OMK09, SZB⁺07, TJ09, TC07b, TC09b, Woo06, YAvdB⁺08]. **scenarios** [SP07]. **Schedules** [FH02]. **Scheme**

[Abg01, BR09a, BW01, Bon00, BMS00, CBKM00a, CKR00, CKR01, DPCV02, GF02, HLS02b, HF00, KKR01a, Kul01, LBV00, LS02c, LC01, LM01, LX00, LW01, MP01a, MP02, MCCT02, MF00, MT01, MHS01, NTYT01, NTYT02, Nys02, OGV02, Ros00, SWL00, SZS01, Vay01, WH02, WPH00, Wee02, Xu01b, Xu01c, Xu02a, Xu02b, YP01, YL01, ZZ01, ZSP02, Zha02, de 00, vdSE00, AK06a, AT09, Asl04b, AM05, AB05b, AT05b, BS04a, BKS07, BMT09, BACFT05, BALW06, BAFL09, BF07, BG05a, BCCD08, BHvdV06, BN09, BM07, CFR04, CP03a, Cap08a, Cap08b, Cap08c, CFF07, CDDL09, CMSZ09, CL07a, CL08b, CHB09, CMG09, CS07a, CEH09, CSO09, CYS06, CL07b, CSL08, CS09, CSKD05, CDV07, DE06, DPRN05, DDSV09, DBBP08, DLD⁺06, DS06b, DZ09a, DGRS08, Edw06, FM08, FL06, FH07, GPC07].

scheme [GN03, GN07, GL09b, HLS06, HS03a, HHC08, HJM⁺05, HLY09, HH06, HGB⁺03, Hwa03, IM05, IKS⁺09, IA06a, IA06b, IAT08, IM07, IQ08, JAK05, KR09a, KN09, KOQ04, KH09, KL08, KK05a, KJ09b, sKKRH03, KK05b, KLLJ09, KPK09, KLM05, Lab09, Lar07, LK07, LD09a, LM03a, LF06, LLL07, sLwG08, Li08a, LLS09, LS05a, LLZ07, LYC09, Liu08, Liv07, LJ09b, LGM08, LSW08, LH08b, Mai09b, Mai09a, MTWW06, MY09, MY03, MG07b, MGC06, MC07c, MCP03, MPFC08, MVO04, MSB07b, Mot08, NSS03, Neo07, NMM⁺07, NMH⁺07, NJX08a, NI03, NN09, NF09, NS05, OX04, PKD07, PS07a, PH06, PH08, Pon07a, RLZ03, RS06a, Rom07, SBA07, SC08a, SJD05, SDR07, SVB09, SLV09, Ser09, SHWC07, SYC09, SY08, SA09, SCW⁺09, SB03, SC09b, SFMP06, ST03a, zSW06, zS06, SCN07, SN08, Thö04, TXCD07, TE08].

scheme

[TDGP06, TAL09, TCM05, TY07, UBRT07, VVM05, VU04, Vol04a, Waa09, WRu03, WZ09, WA08, WLC⁺06, XP04a, XH03, XMT05, YMT⁺04, YC09b, Yok07, YHCD05, YS07c, ZW05, ZWS07, ZSWW03, ZWS06, Zie04, VP09a].

Schemes

[AC00, ACY00, BS00a, Bar02b, BCVK02, Bla00, CL01a, CL01b, Coe02, CDKP00, CR00, CRD02, Del02, DZ00, DLS⁺00, EF02, FF02, FGG01, FSB01, FH00a, FSM⁺01, GC01, GC02b, Gui02, HL01, HT00a, HT00b, Hix00, JP00, JL02, JMP02, KT00a, KT00b, LP01, Lio00, MF01, ML01a, Mie00, Nic00, Ohw02, Per00, Pir02, QS02, RB02, SV00, SHS02, STiST02, TK00, TS01, TH01, TS02, Vas00, VG02, VS02, WC01, WB01, XY01, Yua02, AM03, AM04, Abg06, APP⁺07, AHNS09, AB03, AT08, AZ03, BTW04, BAMD07, Bal09, BRDM09,

BAR08, BES07, BLM08, BBMB07, BRC⁺09, BP09, Ber06b, BS03a, BR09b, BB04b, BBCT09, BP03, BL03, BD06, BK07, CVB06, Cap05, Cap06, CGMS06, CGL08, CET09, CLMRP08, CL08c, CJ09, CS06, CS07d, CP08, CZVS04].

schemes [DT04, DPRN06, DQ04, DJTT05, DK07, DKTT07, DET08, DBTM08, DZ09b, DOW08, Dwi08, EZ08a, EF03, ELW04, FDD09a, FDD09b, FK07b, FK09b, FW07, FMR09, GZ07b, GLM07, GSV09, GSV06, GGF03, GS03c, GS03d, HK06, Hei04, HAP05, HJJ09, HWWL09, Hub07, HWW07, JW06, JC06b, Jon05, JMC03, KCGH07, KI05, Kim07, KKK08, KPP07, KPP09, KQW03a, KQW03b, KT04, Kuz06, LSB04, LL09, LNGK04, LWW04, LFS07, LG03b, LG04, LJS08, LSSV07, LL03c, LW04, Liu05, LCS09, LD04, Mad06, MRS09, MSS08, NL08, NJX08b, NZZ06, Nis07, NPPN06, NXS07, NF09, OK04, OF06, PAD07, PK03, PYC04, PS04, PS08, Pir06, Pir07, PSG05, QS04, QS05, RBSL06, RP08a, RAD07, RB09b, RMF08, Ros09, RDPN07, Ros08, RS09b, SDM04, SGD03, SHA08, SD05a, SD05b, SYG06].

schemes [SZS03, SHY07, SZ05, STZ07, SS09c, SPGR06, SJC07, STR07b, SK06, Tak06, Tan05a, TL06, TFD06, TDWY08, TT04, TT05a, Tol07, Tol08, TT05b, THD09, Tor03, TB04, TA06, Tsu06, VTT08, VCZS04, WG08, WSY09, WD07, WEl07, WAH09, WZ03, XS05a, XS06, XS05c, YMT⁺04, YC09a, YHSX07, YS07a, Yeh07, YMW06, YS08, ZJS08, ZT03, ZYHS07].

Schmidt [JS05]. **Schrödinger**

[BJM02, XS05b, AMR06, AB03, ABK09, BY07, BBDE05, BIS07, CCJ07, DE02, Dem04, Doh09, FCJ08b, GM06, HyLL07, HJL09, IKS01, JLOT05b, KLSW09, LTE07, LQ09, LW09, Nas08, RSSL09, Sac07, SCT06, SKAS01, SS07c, zSW06, zS06, XHW07, ZKL⁺07, Zhe06, Zhe07]. **Schrödinger-type** [XHW07]. **Schroedinger** [And09]. **Schur** [NPH09]. **Schwarz** [BIW08, CJSS08, HC05, ODCk07, PW00a]. **Schwarz-based** [ODCK07]. **science** [KG06]. **scientific** [Bra04]. **Scour** [DC02]. **scrape** [MT07a]. **scrape-off** [MT07a]. **screen** [DS09a]. **screened** [GH02, LJK09]. **Screens** [Kan02]. **Sea** [Hun01, LTD04]. **seamless** [ERVE09]. **search** [Pav07]. **searching** [Sus06]. **Searchlight** [BS00b]. **Second** [AT05b, BRL02, Boy02a, FB08, GC01, GFCK02, HLS02b, JLCD01, JTB02, JR03, JR04, KC00, KQW03b, LP00, MS03, Nis07, Ols09, PP04, RP08a, SPM03, TS01, VB00, YL01, AM03, AM04, AB05b, BS04a, Bea08, CP03a, CR09, DPRN05, GGF03, GHMP07, KSO⁺05, KK05a, KDF07, KT05, LSZZ08, LRZ04, MZ08, MvW08, MN04, MN17, MG06, MG07d, MG08, Ols07, SZ08, SGFL09, SP05b, SCW⁺09, SL06, Sus03, TMS06, TM07, YP06, Yeh07, YZW05, ZP05].

Second-Generation [VB00]. **Second-Gradient** [JTB02, KDF07]. **Second-Order** [BRL02, GC01, HLS02b, KC00, LP00, YL01, AT05b, FB08, KQW03b, MS03, Nis07, Ols09, PP04, RP08a, AM04, AB05b, BS04a, Bea08, CP03a, CR09, GGF03, MZ08, MvW08, MG08, Ols07, SGFL09, SCW⁺09, SL06, TMS06, TM07, YP06, Yeh07, YZW05, ZP05].

Second-Order-Accurate [GFCK02, DPRN05]. **sector** [Boy05a]. **sediment** [RF06]. **sediment-transport** [RF06]. **seeded** [LD09b]. **Segment** [ERT02]. **segmentation** [RR07, XCY06]. **segregated** [NVD07, Utn08]. **Seidel**

[ABHT03, CLS05, KK07, WGCE01]. **Seidel-type** [CLS05]. **seismic** [CFS09, CSMH05, HS07a, THN⁺07]. **selection** [HL06a]. **Selective** [BD08, LLB05, OL01, RMSB09]. **Self** [CBC09, OK06c, OL01, RHPN09, RV07, RMO00, SUW01, SCC⁺03a, SCC⁺03b, VP00, ZSTC06, BEA09, DAJ07, DS05b, FY07, HK08b, JRS05, MAN⁺06, SMP09, TSB03]. **Self-adaptive** [OK06c, DAJ07, TSB03]. **self-adjoint** [MAN⁺06]. **self-assembly** [JRS05]. **Self-Consistent** [SUW01, OL01, RHPN09, SCC⁺03a, SCC⁺03b, BEA09]. **Self-consistent-field** [ZSTC06]. **Self-Energy** [VP00]. **Self-Intersecting** [RMO00]. **self-organization** [FY07]. **self-propelled** [HK08b]. **self-propulsion** [SMP09]. **Self-similar** [RV07]. **Self-sustained** [CBC09]. **self-teleportation** [DS05b]. **selfadjoint** [Heu03]. **Semi** [BS03a, Bon00, FF02, GVT01, GBB⁺06, KWD07, KT00b, MELD08, NTYT01, NTYT02, RCB05, Str00, Str01a, Tol02a, Tol02b, WPM02a, WA02, XY01, XK01, BG07, BS08b, BLG⁺08, BRB03, BL03, CFF07, CFR09, Cha07b, CWL08, DF04, GHB03, GPF03, GGP06, GD05, HS08b, IX07, LS03, LQ09, LH08b, LLC⁺08, MBP07, NSS03, NZZ06, RBS06, ST04, SFMP06, TBT⁺09, TOY09, ZWS07]. **semi-circular** [GGP06]. **semi-classical** [CWL08, LQ09]. **Semi-discrete** [KT00b, BL03]. **Semi-Implicit** [WA02, Bon00, MELD08, RCB05, WPM02a, CFR09, Cha07b, DF04, HS08b, LH08b, LLC⁺08, MBP07, NZZ06, SFMP06, TBT⁺09]. **Semi-infinite** [GVT01, BRB03, ST04]. **Semi-Lagrangian** [NTYT02, Tol02a, BS03a, Bon00, FF02, GBB⁺06, NTYT01, Str00, Str01a, Tol02b, XY01, XK01, BG07, BS08b, BLG⁺08, CFF07, GHB03, GPF03, GD05, IX07, LS03, NSS03, RBS06, RCB05, TOY09, ZWS07]. **Semiclassical** [BJM02, DDD05, GM04, Gos04, GM06, JLOT05b, JN07, LW09, SY08]. **semicoarsening** [LLY05]. **Semiconductor** [DE02, JP00, KMA⁺01, MP01a, MP02, And09, BS04a, CGMS03, CGMS06, CBC09, CL03a, CL05, CLL⁺07b, FH07, KGJ05, LSS⁺09, SS08, VTW⁺07, WHLL03, dFGLS05]. **Semilinear** [Dri02]. **Semirelativistic** [GTD⁺02]. **Semtner** [MR01]. **sensing** [CLLG09]. **sensitivities** [FLE03, HPD09]. **sensitivity** [AJT04, BV05, BG09, LWG03, LP04a, NA08, PA07a, SDCC05, TMND07, VK04, WGNT06]. **sensitivity-based** [LWG03]. **Separable** [TNR02, KS07]. **Separate** [CFA01]. **separated** [KRT⁺09, Oh04]. **separating** [Gra06b, LG09, SPB09]. **Separation** [AD01, OL01, OMG02, NU09, SNLS03, SG03a]. **sequel** [Lio06]. **Sequence** [WWVG00, HK04a]. **sequential** [BPS03, KS08b, LCH03]. **Series** [Che00a, Che00b, CKGL02, CL02, VP00, BO05, BRB03, Boy09, CKG04, Fou06, KTD03, NU09, NCS03, TDV06, VCG03]. **SESL** [GPF03]. **Set** [Asl01, BCMO01, CMK⁺01, CBMO02, Cho00, EFFM02, HMS08b, KAIN01, KLvBvL02, LLdlP⁺00, OF01, OS01, OCK⁺02, PS01, SW00, Set01, SP00, TMB07, TB00b, AS03b, AS05b, AJT04, ÁDIM09, AA06, AHMS03, BHR04, BHSV07, COQ06, CM06, CT04, CBGI09, Che07, CCT05, CQRW05, CC08b, DMP08, DL03b, ETT05, GGS09, GCNB07, Hab04, HMS08a, HKO07, Her05, Her08, HK05, JVV07, JCT07, KH07, LW07, LW09, LTWW07, LLC⁺08,

LTL⁺09, LTM09, ML06a, MS08a, MRC06, MR06a, MGCR07, Min04, MG07c, MG07d, MV06, NJLA06, NLT07, NT07, OK05, OKZ07, PHKF06, QL04, RR07, SS09b, SS06a, SYC09, Sme06, Spe05, Sus03, TZ06, TZ07a, TZ07b, TBJ⁺09, Tow07, TU04, UYK⁺04, WLKW07, WSTW09, WYS09, Wen09, XLLZ06, YS09, YSS05, ZGK09, ZLAC05, ZL08b, vdDA06]. **set-based** [TU04]. **set-boundary** [GGS09]. **set/ghost** [DMP08]. **set/volume** [YJL⁺06]. **set/vortex** [Her05]. **sets** [FSS03, GR08]. **Several** [ZDNP00, Ovt08]. **SGS** [NN09]. **Shadow** [IH04, ESD05]. **Shah** [ET06, RR07]. **SHAKE** [BLS08, Gon07, WE05]. **Shallow** [BC01, CX08, Che00a, FR02, Gir00, GHW02, Hor02, LBV00, LBV01, Lay02, LLIK01a, LLIK01b, Tol02a, Tol02b, TTSG01, VS02, Xu02b, ZCMI01, AB07, AB05b, BES07, BRC⁺09, BTT08, CVB06, CHL06a, CL08a, CGRGV⁺04, Che03, CLS09a, CZVS04, DJTT05, GPC07, Geo08, GPF03, GW05, GD05, HC08, KJ09b, KLM05, LHD05, LGHD08, LS03, LMNK07, Mea04, MGNB09, NI03, NPPN06, NXS07, RAD07, RB09a, SS03a, SHTB09, TOY09, VTT08, XS05a]. **Shallow-Water** [BC01, Che00a, LLIK01a, LLIK01b, Tol02a, Tol02b, Xu02b, ZCMI01, CHL06a, CL08a, CLS09a]. **Shape** [AKL⁺08, HS09b, LS02b, LTWW07, LTM09, PS03a, AS05b, ADR08, BG09, CKvT07, DAJ07, FP08b, Hab04, HPD09, HSBG05, HKO07, HWW07, LSSV07, LKMU05, LLC⁺08, TW03, WLKW07]. **shape-material** [BG09]. **shape-regular** [LSSV07]. **shaped** [BCDW06, JTL09, MTH08]. **shapes** [HKS09]. **shared** [HJFW04]. **shared-memory** [HJFW04]. **Sharp** [LKMU05, MKLU05, NLT08, SB07, UMRK01, YU05a, YS09, YSC01, FCD⁺06, GMD07, GCNB07, MDB⁺08, OSK09, SSH⁺07, TU04, UTBV03, WK06, YZW07]. **sharp-edged** [YZW07]. **Sharp-Interface** [YSC01]. **sharpening** [CET09]. **Shaw** [FS04, KW08b, LLL07]. **Shear** [ELW01, TC01a, BZ04, BCZ04, BIVC07, GH09, HO03, JOS06]. **Shearing** [LAS01, BM06]. **Sheet** [GC02b, LK01, Nit01, FM06, Her05, SDT08]. **Sheets** [Nie01, Alb09]. **shell** [CJ04, Liv07]. **shields** [BCM⁺07]. **shift** [HHMK05]. **shifted** [AHPT07]. **shifted-Laplacian** [AHPT07]. **shifts** [BM05]. **ship** [Wan05]. **Shock** [AS02, BSJ01, Boy02b, FSS03, Han01, Lio00, MC02, Pir02, STiST02, TNGH02, T6t00, VG01, Wu01, Wu02, AM05, BdCB09, CLMRP08, CC05, DLD⁺06, GA09, HMM08, HJJ09, KFH⁺04, KFIG06, sKKRH03, KLLJ09, KH08, LM08a, LSK06, LKY03, LRS09, Low05, Pir06, SB06b, SM05, Sur05, TDWY08, TY07, UTBV03, VS09, Vol04b, YT07, KKR01b]. **Shock-Aligned** [KKR01b]. **Shock-Bubble** [Han01]. **Shock-Capturing** [STiST02, TNGH02, T6t00, BdCB09, DLD⁺06, KH08, Pir06, TDWY08, TY07, UTBV03, Vol04b]. **shock-induced** [YT07]. **shock-stable** [sKKRH03]. **shock-tube** [Low05]. **Shock-Turbulence** [Pir02, CC05]. **shock-wave** [KFH⁺04, KFIG06]. **Shocks** [DCV⁺01, Sun00, YC02, DLT09, FL07, HP04b, IR09, JD09, MLM09, PFSL07, SPB09, SH07a]. **shooting** [ZK06]. **shoreline** [Che04]. **Short** [SFW00, CWL08]. **short-wave** [CWL08]. **shortening** [CFF07]. **shrinkage** [YZF07]. **sided** [HH07b, RB06, SR09a]. **sign** [MS03, SBA07]. **sign-preserving** [MS03]. **signal** [dSHHM05]. **signals**

[Mil05]. **Silicon** [GR01, Rom02]. **SIM** [NLT08]. **SIMD** [DPRS01]. **similar** [RV07]. **similarity** [SB06a]. **Simple** [Fre00, Kul01, Lai02, OF06, RM01a, SPB09, SZS01, STiST02, BP08, DFG⁺06, LL09, Mig07, NK08, RM08, Yok07, EKP07]. **Simplex** [COQ06]. **Simplicial** [Min03]. **Simplification** [Ber06a]. **Simplified** [FMO00, LTK⁺02, RLB02, FKLY07, KL06, VGCN05]. **Simulate** [DPRS01, HMM02, Chr04, EKP06, MV06, PSC04, Sam09, SLC07]. **Simulated** [PA00, Pav07, WGNT06]. **Simulating** [Alb09, BBF⁺08, Cho00, CR02, DLW06, GK02, HHL00, HDBW05, PR00, PK00, TS04, UMRK01, AGW07, BGS08, BIVC07, BB08b, Che03, DMHP07, DMP08, DP09, Dur08, GFG09, GSB03, GS05c, Gre04, Hua07, KS08a, Kwo08, LKE04, LLZ07, LF05, LKMU05, LZH⁺06, LZH⁺07, NZ07, VC03, VGZB09, VGBZ09, XW06, Xu08, YFBH07]. **Simulation** [ART02, ACK02, BM02, BST01, BHR03, BADG00, BM01a, BS01, BRL02, Bow01, Buc05, BMK⁺06, Bus00, CS01c, CGL08, ČPT01, CPK02, CYKC01, Cle00, DNS08, DF00a, DQA08, DGH02, DDGS09, EH02, FS01, FG02, GPH⁺01, GMAj09, HAAO00, Han01, HKKS⁺01, HK02, HF01, HB02, HSS07, HGM01, JLCD01, JWSC00, JW02, KB00, Kar04, KW08b, KAIN01, KP00, LBD02, Li01, hLA01, LP02, Mac01, MEG02, MSB07a, Mu02, NCS03, OL01, PG02a, Par02, PR01b, PFB01, PWS⁺02, PO01, QRHD00, RRL01, Rom02, SLY02, ST01, SSL00, SCW⁺09, SPC01, SB02, TSB01, TC01a, TCM⁺00, Vay01, VDM⁺02, Ver01, WPM⁺02b, WB01, Xu02a, ZKS⁺09, ZTZ02, ZP02, ZF02, ZTPM05, ZKK01, AH08, AR08, AMH04, ART04, AMP09, AT09, BS04a, BPMR08, BCK09, BP06, BWLM09, BA03, BS03b, BPL06]. **simulation** [BEA09, BGN03, BP07, Bur05, BB09c, CPR05, CGP05, CP06a, CBJdIC07, CPG04, CGRGV⁺04, CTW⁺08, CFL⁺03, CN08, CP07, CLL⁺07b, CMP07, CF06b, CSKD05, CL03b, CSML06, CB09, DSJ03, DL03a, DDH05, DS09a, DTS05a, DTS05b, DS09b, DCK08, ELVE07, EE08, Eld07, FP08a, FG04, FG05, FDD09a, FDD09b, FT06, FD03, FD09b, FLM08, FY07, FKK08, GMD03, GS09a, GGS09, GLS03, GIA⁺07, GBB⁺06, Gra06a, Gra06b, HBLD07, HKM07, HJKO08, Hew03, HHMK05, HK08c, HH07c, HF08a, Hor06, HM05, HSW07, HL07c, HSL08, HT03, HPS⁺06b, HMR08, HHM04, HLWW04, HLWW06, ICO04, JRS05, JLT03, JD04, JOS06, JW03, JMZ04, JHB⁺09, JS05, KHdT⁺08, KFIG06, KG06, KM06, KM07b, KfV⁺05, KDC05, KKS07, LJM⁺06, Lar03, LMV04, Lau06, LW06, LL05, LCH03, LLL07, LS08, LK09, LKW05, LP06b, LL06b]. **simulation** [LCNR07, LMH07, LWF⁺08, LDV08, LH05b, LQ06, MC04, MCM04, MLM09, MTWW06, MC06a, MJT06, Men04, MGS07, MR04, MHE06, MWG⁺06, MK04b, MHdB07, MGNB09, NLF03, NJLA06, NFvS⁺06, NC04, NB04, OK06b, PSCB08, PDHP07, PYC04, PM07, PL09b, PN03, PH06, Pet07, PWM06, PA05, PVPS09, Pro05, RB05, RRC05, RGS04, RMG⁺09, Rom07, RJM07, RFFP06, Ros09, Roy05, SM09a, SWB⁺06, SWG08, SW08a, Sch08, SMS08, SHWC07, SP04, SL04, SP05a, SFX03, Shi07, SMP09, SSND03, SGG⁺04, SMSS07, SK07b, TOZP03, TZ06, TZ07a, TB06, TSB03, TdAAP08, TPR05, Tsy03, Uhl05,

UPKN09, VTC⁺07, VS09, VGL⁺07, VK05b, WT07a, WLC⁺08, WFC09, WWK05, WMH07, XLP05, XG09, YM07, YB06, YWC07, YXLF05, YSS05, YF09, ZP05, ZSB⁺08, ZT03, ZW03, ZD08, dSMN⁺04, dCNHSD07, vdBG09]. **Simulation-Tabulation** [HGM01]. **Simulations** [ATV01, ALGM01, CS01b, CVB00, CTT08, CBL01, DW00, DKSW01, DE02, DPR00, FVOMY00, FPC⁺00, FLG01, Gen01, GLL03, HAP06, HPZ01, JML⁺01, KS02b, KK00a, KKC01, KK00c, Lap02, LS02c, LL06a, LLQ⁺02, ME09, PPC00, PW00b, PW01, RXH02, SSW01, Sun00, TMSW07, WGCE01, Yon01, dSAK00, deM02, AS05a, AZB09, AD03, AFGM07, ALT08, AD04, AGSX09, BLW04, BDR⁺04, BDGL05, BMN07, BBB08, BL09c, BDS07, BS09b, BTW03, CGMS06, CGN⁺07, CV06, CP03c, CELS07, CM03, CFGK05, CWD08, CK07, CHPR09, CP04c, CH08, DUEB07, DW09, DKS⁺03, DLD08, DZ09a, DJ04, EGHE06, Eld08a, ÉGP09, FHJK09, FPK08, FM05, FHD⁺09, FE04, FCGK05, GCGE03, GGF03, GGRS08, GCLB04, GS09d, HGBH03, HC08, HO06, HP04b, HM04, HS04, HLX06, HS07b, ID04, IK07, ISNY05, KM08a]. **simulations** [KMV03, KFV07, KH07, KSJ03, KZ06, LDN04, LMN⁺09, LWDA09, Li08b, LJ09a, Liu09c, LR03, LMK09, LL08b, MWM08, MG05a, MY06b, MP05, MKL06, MLFG06, MVO04, Mot08, MBP07, MMPB07, MO06, MAL09, NTO⁺07, NDG05, NJX08b, NLLE06, NS04, OLA08, ODAF06, OK07b, Pau07, QLK07, QLS09, RVD09, RB09a, SMT⁺08, SG06, SGFL09, SE09, SK08a, STD⁺05, SA06, SFVK06, SL07c, SHP07, SSW⁺07, Spe05, SFMP06, TWM07, TBJ⁺09, TMD07, TGB⁺07, TG06, TDV06, TG04, VPMC04, VGS04, VK09, VCM00, VQLZ04, WL03, WTL08, WC08, WH05, XK03, XH03, YFLS06, YZLH09, YYT05, YZF⁺06, YZF07, ZGG03, ZVQ07, ZLAC05, dSHHM05, vZdBB07, vdV08]. **Simulator** [GW02, GC06]. **Simultaneous** [AKV06, DVHM05, HSBG05]. **Simultaneously** [DSS00]. **Sinc** [Eg07]. **Sine** [Mil05, Saf02, BRB03]. **Sine-fit** [Mil05]. **Single** [JK02, JD04, LW06, NMG09, PL09a, RSW06, RM07]. **Single-Crystal** [JK02]. **single-domain** [LW06]. **single-fluid** [RSW06]. **single-fluid-phase** [RM07]. **single-phase** [NMG09]. **Singular** [ACS00, AQV02, APQ02, CH01, LL01b, LTZ02, RW00, WPW02, ZS01, ACLS03, Boy06, DG09, HL07b, LH05b, Sac07, SY09b, TE04, WZ07, ZZFW06, dA04, dCNHSD07]. **singular-regular** [dA04]. **Singularities** [Mai01, MC00b, OKL01, Boy05a, Gro06, Gro07, HO08a, VRM07, YW07]. **Singularity** [Nit01, CSO09, LL06a, TPVG06]. **singularity-avoiding** [CSO09]. **singularly** [LCW04, Moo07]. **Sinks** [WLE⁺00]. **sintering** [CP05]. **situ** [LP09]. **Sivashinsky** [CFP08, KMS03]. **Sixth** [WZ09, Hau08b]. **Size** [BW02, Zha02, Hew03, YE07, ZZ09]. **Skew** [Coe02, DLS⁺00]. **Skew-Symmetric-like** [DLS⁺00]. **skewed** [TAL09, YMWM06]. **skill** [Ano08-50, SM09b]. **Slab** [BS00b]. **Slater** [GM01c]. **Slender** [KK00c, BP08]. **SLICE** [ZWS07]. **slide** [Car09]. **Slider** [WB01]. **sliding** [AKH06, HHM04, KH07]. **slightly** [ZD05]. **slip** [BIW04, HSC09, PK05, SS05c, SN08, VLB09, ZTPM05]. **slip-dependent** [BIW04]. **slit** [Mad05]. **Slope** [Xu02a, Boy03, ML08]. **Slope-Update**

[Xu02a]. **Sloshing** [Fra04, CN05, LL08a, VGL⁺07]. **slow** [GV06, Kel05].
Slowly [Wu01]. **Smagorinsky** [MGS07]. **Small** [Hix00, LWDA09, AV03, BEPT09, HMA05, KM06, KM07b, Pal08, RE07, RWMK03, TJ09].
Small-angle [LWDA09]. **small-scale** [KM06, KM07b, RWMK03].
Small-Stencil [Hix00]. **Smearing** [BU02]. **Smooth** [ASPB03, Ber04, CS06, CS07d, CS08c, DJM05, GP05, MC06b, YBZ06, vZdBB07]. **Smoothed** [BZ08, CPK02, iI02, LMK09, PM02, ZF02, BZ04, BOT05, CGSR08, CFL⁺03, CL03b, CEL06, ESE07, HK08b, HX05, MHW05, TM05, TMSW07, Yok07, ZB07].
smoothed-particle [BZ04]. **smoother** [EKP07]. **Smoothing** [DIV00, KKGL01, ABHT03, HZGB04, HZGB05, WSTW09, YZLH09].
Smoothness [KKP02, LCS02]. **Soap** [ZP02]. **Sobolev** [RSS09, SNLS03].
soft [HK08c]. **soil** [SM06b]. **Solar** [SJC07, Dic08]. **Solid** [Bar02a, EKK02, FGS09, Fed08, HHL00, HPZ01, Man02, MC02, BL08, CCV03, CYS06, CP04b, DVHM05, HS04, HH06, JJGL06, JJGL07, KS09, Kou07, KB06, MEKS03, MMS04, Mil04, NMG09, SMGJ09, Vik03, VHI05, Yam05, ZKS⁺09, ZFM08, vLAvdV06]. **Solid-Fluid** [MC02, FGS09, BL08, ZKS⁺09]. **Solid-Liquid** [EKK02]. **solid-rigid** [vLAvdV06]. **solid-state** [CP04b]. **Solidification** [ART02, LLH02, LW06, MHW05, PK00, SZ01, YU05a, ZH01, AD03, ART04, KW08b, RJM07, TZ06, TZ07a, TZ07b, TZ07c, ZGT06]. **Solidifying** [LS02b, CDDH07]. **Solids** [ATV01, HB02, MC01, JG09, Tan08]. **Solitary** [Boy02b, LY07b, Yan08, Yan09]. **Soliton** [GHV00]. **soluble** [MT08, ZEA06].
solute [IG05]. **Solution** [ABGV02, ACS00, ADK00, ADK02, AQV02, BR01, BC02a, BMR01, BMRS01, BMRS02, BT02, BK01, CWT00, CL00b, Dri02, FGG01, FP02, GZ01, GC02b, HW02, Hua01a, JMK01, Kan02, LTE07, LXM09, Lin01, MR00, MR02, MN02, Pai01, PR01a, QCGQ03, Stu01, VB00, WPW02, WLE⁺00, ZZ01, ZYC02, dFJS09, vBRK01, ARRS09, AKV06, AL06, AEP04, And09, AG09, ACLS03, BT03, BJM03, BL09a, BCDR06, BFC04a, BFG08, BTT08, Bia03, BSLN09, BSW05, BGLN05, CJK⁺03, CFJ06, DSM09a, DVHM05, DS06a, DF04, Dom08, DR09b, EB06, FK07a, FT05, FOLD05, FH07, GS03a, GS06b, GV07, HKM08, HEN09, Hoh06, IHL03, JW09, KS08a, KK03a, KSH⁺06, KAK03, KL04, KMS04, KT03, KT05, LH05a, LG07, LM08c, Low05, LCdCN⁺03, MZ09, MP07a, MNR07, MKKY06, MK08b, MOG09]. **solution** [MSB07b, Mou04, MK07, Ols07, Pap08, Pud06, RVM07, RWMK03, RHPN09, RAD07, Roy05, SSN09, SS03a, SWZ03, SB09, SHTB09, Soc03, ST03b, Thö04, Tok06a, TV08, TDV06, VC03, WK07, WM07, YAvdB⁺08, YKG04, ZG08, ZYL⁺06, ZZ09, ZSC08]. **solution-adaptive** [ST03b]. **Solution-limited** [LXM09]. **Solutions** [CH01, Gos02, PKP01, PS01, SPW⁺00, VQSZ02, BB08a, BDRT09, Ber04, BT09, BDCG03, CFR09, CL03a, CS08b, DD09, FCJ08b, HK06, HLRZ06, HL07b, IG05, KW08a, KMS03, KN04, KLSW09, LHD05, LW06, LRMB08, LW07, MM07, MHB08, MD06, RS09b, SY09b, TC09a, UL06, YU05a, YJF⁺06].
Solvated [FS00b]. **solvation** [CXB08]. **solve**

[BZ09, Cha07a, Cha07b, CEH09, CFP06, IM07, ND04, TBT⁺09]. **solvent** [DC07]. **solvents** [XDC09]. **Solver** [BZW01, CBKM00b, CKF02, CSS00, HR01, iI02, Lai02, MOvL00, RLB02, ZS01, AQ09, ABZ⁺08, BCCV09, BH09, Bey09, Bia03, Bil05, BYZ04, BJ09, BLM04, BL05, BH04, CW03, CGMS03, CK03, CP06b, CP06c, CHL06b, CLL⁺07b, CLS09b, DHOT09, DSM09a, DVHM05, DBF08, DP07, GS05a, GS06a, GA09, GTMC08, Gui05, HK08a, HC09, Her08, HdGKG08, HJ07, HVAC09, HAI09, HB05b, IQT08, JR09, JTL09, KW06, KP04, KLLJ09, KAA⁺07, KS07, LT05, LFX05, Li05, LK09, LDPL08, LC03, MR05, MR07a, MPD08, Mig07, Mil04, MK05, MBP07, NOG08a, NI03, NLLE06, NS05, Pop03, Pop09, RBT03, SO08, SL03, XYK05, YBZ06, ZJ09, dNWvSD07, dTWD09]. **Solvers** [AV02, CT08a, LP01, Mav02, MOS⁺00, OMG02, QS01, SBGK00, SC01, AMLC08, APQ03, AQ07, BPO07, Bra08, BH05, DIL03, Geo08, JR07, JL04b, KDK⁺07, KSW07, LMS05, LG07, Löh04, MTV08, NK08, SMAj08, SB03, TT06a, YLD09]. **Solving** [AKV00, Bot06, Cal02, CCV03, DV02, DKX00, DKX01, DFT01, HK01, HMM07, Mai03, MP01a, MP02, MSO04, MR07c, Moo07, ORM06, SS08, SKAS01, SWL00, TK02, UL06, VC00, WKL07, YA05, ZYC02, ZYL⁺06, AMXL09, AC05, CHL09, Cap08a, Cap08b, COQ06, CS07b, CW08, CJ07, CDL04, CDL05, DLP08, Eg07, FM04, FP08b, GS07, GK05, HL05, IKS⁺09, ILL09, KSO⁺05, KZ04, LL03c, LRZ04, LP07b, Mai04, MR06a, OTCM08, PSD09, RCT07, RLZ03, RS06a, RRW05, RM08, SROCCF03, SL07b, SR09b, STR07b, TLL⁺08, Tau07, WXG07, WGS⁺08, XDB09, XMT06, YYF09, YCL05, Zho07, dDEK09]. **Some** [JHSZ07, OF01, Sto07, Thu08b, AST07, LM08b, VBL03]. **Somerville** [WS04]. **Sommerfeld** [GFR09, Meh04]. **sonic** [Asl04b, Tan05b]. **Soroban** [YMT⁺04]. **Sort** [Bow01]. **Sound** [Fre00, HSK00, MN02, BA03]. **Sounding** [TK02]. **Source** [HK00, HGN00, SR00b, Xu02b, ZCMI01, BIW08, BP03, CVB06, CSMH05, ES03b, GLS03, HW08, JD09, KNH05, LT09a, MJ09a, MC07c, RBT03, TE04, TT05b, VS07, Wen06, XS06, YYF09, ZSW03]. **source-independent** [CSMH05]. **source/observer** [VS07]. **Sources** [GBGM01, POS00, WLE⁺00, BCDW06, CWJ07, HO08b, OK06c, ZZFW06]. **Space** [AB07, CP00, CWT00, Han00, HA02, JWSC00, KvdVvdV06b, LTZ02, OCK⁺02, PR04b, PM00, SUW01, ZYC02, ZRR00, vdVvdV02, vdVX07, AKV06, ASQR06, AK07, AGSX09, BFT07, BIS07, BS03a, BKM09, Boy03, CQRW05, CFJ06, FR03, FCGK05, GvH06, GR07, HLO08, IS04, IH04, JW03, JX07, KvdVvdV06a, KvRvdVvdV07, KT05, KLM05, LG07, LW07, LS09, kM07a, Moo03, Moo07, MR06b, RJM07, RBK09, Shy06, TT05b, TFDK04, ZYL⁺06, dWKL07]. **Space-Charge** [SUW01]. **spacecraft** [LZ09c, VGL⁺07]. **spaced** [HM08]. **Spaces** [FLG01, YS06]. **spacewise** [YYF09]. **spacewise-dependent** [YYF09]. **SPAM** [SWTM01]. **Sparse** [Bor00, GZ07b, GG00, WHS08, ABZ⁺08, BPS03, DBF08, HM08, LAKD08, MZ09, ZG08, ZGSD06]. **Sparsity** [Lou00]. **Spatial** [BRL02, BCMO01, KK05c, LBV00, MAN⁺06, OMG02, ZDNP00, Bey09, BB07b, BdCB09, Che07, CFP06, Jor07, LSD07, MPFC08, NWZL08, RBSL06, ZT07a]. **Spatially**

[CKS00, AKLMP09, CV06, FG04, FG05, FE04, GTMC08, KSJ03, Kou09, LG09, VCZS04, ZIP06]. **spatially-developing** [FE04]. **spatially-varying** [GTMC08, Kou09]. **spatio** [DGF09]. **spatio-temporal** [DGF09]. **spatiotemporal** [SJC07]. **Species** [WDM01, AK09, BK07, LCB04, SD05a]. **spectra** [DK06, Mil06, Mil07, TPVG06, Yan08]. **Spectral** [AQ00, AGP01, AQV02, AP02, AQ07, BJM02, BK08, BS03b, Bor07, CSS00, CKGL02, CMOV02, DLMK04, Dri02, ES06, FLG01, FYH⁺06, GT09a, GP00a, GS06b, GBGM01, HL01, Hei04, HKV01, KK00a, KK00b, KB08, LS02c, LJW09, LVW06a, LVW06b, LJW07, LMS02, PRT00, PX02, PR04a, PW00a, PR03, PR06, PG02b, RH01a, Sac07, SB06c, SC01, SG03a, SWL06, TRL01, Wan02, WL02, WZL04, WK01b, vOP04, AQ09, BM06, Bey09, BS04c, BvdHKG07, BDCG03, BLM03, Boy04, Boy05a, CJSS08, CCV03, CLL⁺07b, CKG04, CQRW05, CD07, CFJ09, DDH05, DLD08, Dim07, DGJ03, DD03a, DD03b, FD03, FK09b, FBHV05, Fou06, GSV06, GFR09, GPF03, GW05, GR08, GD05, HWL08, pHL09, HK08a, HEN09, HdGKG08, HL07b, HJM⁺05, HJM06, IM05, IHL03, JZ08, JW09]. **spectral** [KCH06, KH09, KDK⁺07, KS09, KT03, KS07, Lab09, LL09, LP07a, LM04, LJS08, LX07a, LCCG05, MVD04, MNR07, MP03, MLFG06, ND04, NL09, NB04, PH08, Pir06, PR04b, Pon07a, Pon07b, RFFP06, SSN09, SR09a, Sar03, SS07a, SY09a, SK04a, Str07a, THL06, TBT⁺09, TCN09, THS07, VL07, VLW07, VBL07, VGPL09, WL06, WG09, WPH00, WGRA09, XP04b, XLS09b, YYT05, YZW05, ZC09, ZYHS07]. **spectral-element** [Fou06, KS07, RFFP06]. **Spectral-Lagrangian** [GT09a]. **Spectral-Projection** [LMS02]. **spectral-WENO** [CD07]. **spectral/B** [DD03a, DD03b]. **spectral/B-spline** [DD03a, DD03b]. **spectral/discontinuous** [CQRW05]. **Spectral/hp** [ES06, PR03, PR06, SC01, PR04b]. **spectrally** [BW06, BCL06, DP09, HF08b]. **spectrally-accurate** [HF08b]. **Spectrum** [GBS00, VCT09]. **Speed** [FS01, KMA⁺01, sLwG08, BHS09, BN09, HS03a, HS06, KSO⁺05, SMS04]. **Speeding** [HK00]. **Speeds** [MD01, JW06, Lio06, MDS03, Soc03]. **speedup** [EV03]. **SPH** [BRP05, DKS⁺03, DLD⁺06, DLT09, GAC⁺09, HA06, HA07, HA09, JOS06, KM08a, LMX⁺08, Mon00, ODAF06, ODAF07, OBT06, Owe04, Pri08, SSL00, XSL09]. **Sphere** [Che00a, Che00b, CKGL02, KMHR00, Lay02, PWS⁺02, Tol02a, Tol02b, AQ09, BAFL09, BCE⁺09, Boy05a, BZ09, CDJ07, CF06a, CCV03, CX08, CKG04, Cho05, DC07, DTSC04, DJ04, FW07, FP08b, GW05, Gir06, LS03, LJW07, MC06b, MK08b, NFvS⁺06, NI03, Pud06, PL07, Ros06]. **Spheres** [PO01, BP08, VQLZ04]. **Spherical** [Gir00, GHW02, LBV00, LBV01, Nit01, SS00, AQ07, GG09a, GPF03, Jao07, JD04, KL06, LHD05, LGHD08, Liv07, Mac07, NB04, OBT06, SP06a, SC08b, Tyg08, WJV07]. **Spherically** [HZ02]. **Spheroidal** [BS00e, Boy04, SJ04]. **Spilling** [DF00a]. **Spin** [GCW07, YMF01, FT09, WJV07]. **Spin-Orbit** [YMF01]. **Spin-polarized** [GCW07]. **Spline** [DDS09, GW01, KMJ01, Lay02, PB00, SKAS01, Ver01,

Bia03, CP04b, CLS09b, DD03a, DD03b, ELW04, LHGF04, ZWS07]. **splines** [CP04a]. **Split** [HZ08, SFY01, Sti02, AMSZ07, MM03, Nas08, RBK09, SA09, SK08b]. **split-conservative** [SA09]. **Split-Step** [SFY01, Nas08]. **Splitting** [BJM02, BM01c, Edw00, EF02, FMR09, HH01, HH02b, HGN00, KLN⁺01, LLIK01a, LLIK01b, MBP00, NTYT01, NTYT02, Ros00, SLY02, Spo00, VG01, YVD00, Asl04b, BG05a, CHL09, CJ09, DPRN05, DQ04, EF03, Fas03, FL09, GS03d, GS09c, HJM⁺05, Hub07, HGB⁺03, KN09, KKO04, LLOT06, MEKS03, MY07, NvL03, Pon07a, QW05, QA09, RC09a, RP08a, RS05, RS09a, RDPN07, Sac07, SJD05, ST03a, TBT⁺09, TCN09, TK04, YHSX07, YZW05]. **splitting-based** [TBT⁺09]. **sponge** [Bod06]. **Spontaneous** [YZF07]. **Spray** [BW02, FLM08]. **sprays** [AJ09, LMV04, TT06c]. **Spread** [BST01, BST03]. **Spreading** [HLZ02, DW09, HSC09, ZGG03]. **Spring** [TTSG01, TSG02, LWF⁺08]. **Spurious** [DS01]. **Square** [Bor00, Cap09, GS03a, LL04a, SL07b]. **squared** [BEE06]. **Squares** [PG02b, AMSZ07, BT05, BT06, BP04a, CSO09, DI09, GNNB08, HV03, HK08a, HMMR04, HLMM07, HdGKG08, HY09, HY11, KH09, NCS03, PR03, PR04b, Pon06, Pon07a, Pon07b, PR06, VB09, ZKY05]. **squares-based** [NCS03]. **stabilisation** [NW07]. **Stability** [AC00, ACY00, APQ02, Bal08, BB08a, BFJ03, Cod01, DVHM05, DWLM09, FGG01, FDL08, GF05b, HFO01, LG08, Lee03, LRS09, MG02, NR01, PR01a, Pet01, Rem00, Rem06, RS05, RS09a, RB02, SHWW00, SV00, WK01b, BBC⁺06, BDCG03, CHH06, CHPR09, CFJ09, DMG04, FD03, GV08, HS09b, HM04, KRT⁺09, KWD07, LH05a, LGKP07, LZ07, MPD08, Maz06, NZ07, OCF08, Sam09, SCT09, zSW06, zS06, VCT07, VL07, VGPL09, XSL09, Yan08, YMWM06, ZK06, ZT03]. **Stabilization** [PX02, San03, HH07b, QT08]. **Stabilized** [JML⁺01, RB09a, XP04b, BB07a, HY09, HY11, LSS⁺09, MZ08, MR06a, MGCR07, NZ05, SV07, ZSP08]. **Stable** [Azm02, BKST09, CYKC01, De 04, GGCC09, Hu01, HWWL09, IA06b, KR02, KR09c, MSS08, MHI08, Nys02, VWW04, Wan04a, WDM01, Wee02, YC09b, ZZ01, AM03, AM04, AB03, BL04, BLM08, BO09, BSLN09, DR06, FNS07, GG09a, GN07, HR08, pHL09, HX05, JAK05, JL04b, sKKRH03, KYK07, KPP07, KPP09, LL05, NFGK07, NG06b, NGvdWS09, PC06a, SLV09, SCN07, SN08, TCM05, WC07, YC09a]. **stacks** [CKPW07]. **stage** [KWD07]. **stage-exceeding-order** [KWD07]. **Staggered** [ALGM01, GHV00, GW01, HH01, Per00, XCZ02, YP01, ZSP02, Boe05, CSL08, KE06, KAK03, LD09a, LS05b, LSW08, LRS09, PN03, PS04, RCB05, SK06, VSW04, VSW06]. **Staggered-Grid** [XCZ02, LRS09]. **stagnation** [SBA07]. **Standardized** [BP04b]. **Standing** [VCP00]. **Stars** [BTFY01, TVMR03]. **started** [DCK08, KR09a, NCS03]. **State** [CYKC01, FV01, Mai01, MOvL00, Shy01, VTM⁺08, BT03, BLM04, CORT09, CGH05, CC07, CP04b, CS06, CS07d, CY05, HPS06a, HJJ09, ISNY05, Kwo08, Mai03, Mai04, MK05, MK07, PPB09, SFDL07, VVS08, VTW⁺07, Wen06, ZL08b]. **State-of-the-art** [VTM⁺08]. **Statement** [KB01]. **States**

[FGOV00, RS02, BCL06, BS08a, BNNP06, CL08a, CGL06, CKLS05, CLS05, FJ09, GT09a, Geo08, VTW⁺07, Vos06]. **static** [CLLG09, FHD⁺09, HH07a, KK03a, KOQ04, KOQ08, LKE04, Mar06, PH09, VOD08]. **Stationary** [DCV⁺01, GS06a]. **Statistical** [DC08, DF07, FS01, HGBH03, SFX03, CFM09, FWP09, GT09a, PM07]. **Statistics** [FH02]. **Steady** [CYKC01, CAL00, GM01b, MOvL00, PPB09, VG01, VP09b, vBRK01, AM04, BNNP06, BLM04, BEG03, CGH05, CC07, CS06, CS07d, CY05, DR09a, FJ09, Geo08, Gla05, GMO04, GMS06, HY09, HY11, HLY09, Hub07, ISNY05, NJX08b, PR06, RFVP09, VVS08, WK07, Wen06, XMP07, XSG04, ZKY05, ZL08b]. **Steady-State** [CYKC01, CGH05, CY05, ISNY05, VVS08, ZL08b]. **steady-states** [FJ09]. **steep** [YM07]. **steepest** [CSMH05]. **Stefan** [BMR01, BFC04a, CMG09, GF05a, HZ07b, JVVVS07]. **Stellar** [MC03]. **stellators** [SKK⁺08]. **Stencil** [Hix00, DS06a, UPKN09]. **Step** [BE02, CGP02, Cod01, Gui02, LOK01, MT01, SFY01, AHNS09, BBHM09, Bil05, CB03, DT04, Dom08, DBTM08, GSV06, HVAC09, HLX06, ISNY05, KDW08, KSGF09, LDW07, LP07b, Nas08, RFVP09, VSG05, ZSW07]. **step-flow** [HLX06]. **steplength** [FG04]. **Stepping** [Hig02, RB02, ZTZ02, BHvdV06, DR06, DGRS08, HR08, HC08, Hig05, KvdVvdV06a, LXM09, LGM08, Mad06, MPFC08, TDGP06, UBRT07, VSH04, YA05]. **steps** [TZHT04]. **sticky** [PC08]. **Stiff** [BJ00, BJ02, CM02, MOvL00, Spo00, VG01, APR09, CPKW09, DP08, DET08, GV06, KKO04, Kro05, MC07c, NZZ06, RE07, Tok06b]. **stiffness** [HS08c]. **Stirred** [LLQ⁺02]. **STM** [BGR08]. **Stochastic** [AGT02, AJ09, BDGL05, DGA08, GK02, Hor02, Kou07, LKNG01, LRN⁺02, MNR07, PFB01, TX06, WB09b, AS05a, AA07, AA09, APR09, AGT05, AWK07, AGSX09, AZ05, AZ06, AKP07, BCK09, BFG07, Cam03, CP03a, CGP05, CP06a, DSJ03, Dem04, ELVE07, EPW08, GZ07a, GZ07b, GZ08, GZ09, GD06a, JZ08, KMOV03, KW03, LGP09, LK07, LRS07, LGK06, Liu08, MZ08, MZ09, MT04, NZ05, NL09, PA07a, RE07, Sto07, SL06, TJLT08, WK05, XS09, ZG08]. **stochastic-** [APR09]. **stoichiometric** [JVVVS07]. **Stokes** [DD03a, AQ09, BQQ09, BCDR06, BS08b, BHR06, BB07a, BACFT05, BLM08, BT02, BCVK02, BYZ04, Boe05, BT06, BJ09, BT09, BP08, BCM01, BGLN05, CSL08, DC01, DR09a, Dim07, DD09, DB04, Dom08, DD03b, EHST03, EHS⁺08, FL03, FOLD05, FD07, GH03, GS07, Gel06, GP00a, GSV06, GCNB07, GR08, GS03c, Gri09, GSW00, GK05, HH08, HH01, HDC02, HK08a, HH02b, HLMM07, HS08b, HS08c, HLL08, HC05, IQ08, ILL09, JK00, JL04b, JMC03, KA05, KE06, KH09, KDK⁺07, KG08, KAK03, KvdVvdV06a, KvdVvdV06b, KvRvdVvdV07, KM00, KB01, KS09, KT03, LMN⁺09, LOK01, Lee09, LC01, LL04a, LL01b, LFX05, LDPL08, LRZ04, LP07b, Liu09b, LM03b, LMS02, LB04, MPP01, MVD04, MRS09, MM01, MCG08, MSS08, MF00, MG06, MLS01, NW07, NZ05, Ni09, Nik06, NMS07]. **Stokes** [NGvdWS09, Pai01, PNMK09, PKP01, Pet01, PR03, PR04b, Pon07a, Pon07b, Poz01a, PR06, PG02b, RBH03, RS06a, SML02, SNGAS04, SFE07, SMB09,

STZ07, Soc03, SCN07, SN08, STR07b, SPW⁺00, TOZP03, TLK09, TXCD07, TC09a, TS04, TG08, TWS02, VSW04, WRu03, WPH00, WK01b, WS01, XK01, Xu01c, XYK05, YS07a, YJF⁺06, ZL08b, ZDNP00, dVGLM09, vBRK01].

Stokes/MHD [YS07a]. **Stokeslets** [ADE⁺08]. **stopped** [Buc05]. **storage** [CFR04]. **strained** [RS06b]. **strains** [SKS08, YH07b]. **Strategies** [KB00, KLN⁺01, KMS02, BB07a, HJFW04, HM08, RMG⁺09]. **strategy** [ÁDIM09, BP09, CL06b, ERVE09, FVE04, GCCD07, GE07, HE07, MMS04, MHE06, VBL03, VBL04, YYT05, dDEK09]. **Stratified** [CL07a, CL08b, DKS01, Pai01, Bar04, BM06, DDH05, GBC06, KSH⁺06, KSHS08, SE04]. **stratosphere** [MM09]. **Stream** [HF00, Pee03, LL04a]. **streamer** [CN08]. **streamers** [MHE06]. **Streamfunction** [Cal02, AKH06, BACFT05, GK05]. **streamfunction-velocity** [GK05]. **Streamfunction-Vorticity** [Cal02, AKH06]. **streaming** [GS06b, LL03b]. **Streamline** [HFO01, MJT06, Yeh07]. **streamwise** [JOS06]. **Strength** [RH01b, XDC09]. **Stress** [HJ02, BS09b, SW04a, YAvdB⁺08, GM01b]. **stress-velocity** [YAvdB⁺08]. **Stressed** [ATV01, LN09, RRV06]. **stresses** [HO03]. **stretch** [ID04]. **stretched** [dHRvdB07]. **Stretching** [ACGV07, GGRS08]. **Stretching-based** [ACGV07]. **Strict** [AC00, ACY00]. **strides** [SROCF03]. **string** [CP03b]. **strip** [ST04]. **Strong** [GG00, Sun00, DDSV09, DLT09, HP04b, KLLJ09, KWD07, LP06a, LKY03, dWKL07]. **strong-field** [dWKL07]. **strong-stability-preserving** [KWD07]. **Strongly** [AK06a, Alb00, LG03b, KKS05, SE04, WKL07, YE07]. **Structural** [AJT04, SW00, LLC⁺08, LZH⁺07]. **Structure** [BADG00, CWWZ00, CD00, Cul01, DGP00, TR02a, AK06a, AKP07, BNV08, BCHL07, BGS08, GA09, GGCC09, HBHS09, HC09, IS04, KKCF09, KGJ05, KYK07, KF06, Küm04b, LZ07, LCG07, LMZ⁺08, LZH⁺07, MC03, MK04b, Pap08, SPT05, SL07a, SM06b, SP05c, SP06a, VTM⁺08, WBM09, YMW06, ZFM08, vLAvdV06, vZdBB07]. **Structured** [DLS⁺00, DI02, Edw00, LM01, BHS09, CSML06, LSB04, LM03a, MC07b, MCP03, RAB07, TRSK09]. **structured-grid** [CSML06]. **Structured/Unstructured** [LM01, LM03a, MCP03]. **Structures** [DS01, GM01a, KM02, WPM⁺02b, WZ02, CLL07a, CGL06, CdHST08, EZ08b, LHGF05, MR07a, RVVL09, SZB⁺07, SZS03, ZK04, ZH09]. **Studied** [vHBB02]. **Studies** [OS04, RSO04, CGSR08, LZ09c, LGK06]. **Study** [Dar00a, DCV⁺01, DP00, LZ04, Lin02, PPCW06, SZ01, BBB08, CLL07a, CKG04, CP05, CM03, DS06b, DLW04, GR08, GLLX08, HMR08, IA06a, Kas07, KTD03, LCB04, LL08a, MC09, MC06b, NFA03, OCFF08, QKS06, Ren07, SS03a, SJ04, SB06c, SKW05, SCRL08, TPVG06, VL07, ZK05]. **Studying** [PA00, Kro01]. **sub** [BAMD07, BAR08, CLTA07, VS07]. **sub-cell** [BAMD07]. **sub-diffusion** [CLTA07]. **sub-linear** [BAR08]. **sub-wavelength** [VS07]. **Subband** [PA05]. **subcell** [LS05b]. **Subdomain** [WPW02, KT05]. **subdomains** [KT03]. **subfilter** [LDN04]. **Subgrid** [AS02, ML01b, AHF04, PM08, VK09, Yeh07]. **Subgrid-Scale** [AS02, AHF04]. **subgridding** [VPMC04]. **subject** [SG03a, VVS08].

subjected [JOS06]. **Submarine** [DC02, FNBB⁺08]. **Submodels** [BW02].
Subsonic [SSD00, SB02, HSQ03, Pro05, Pro07, SBC04]. **Subspace**
 [SWTM01, BEPT09, ZSTC06]. **substances** [NDG05]. **substrate** [ZDD09].
Substructured [SC01]. **Substructuring** [Man02]. **subsurface** [JLT03].
Suction [CS00]. **Sufficient** [SV00]. **sufficiently** [GP05]. **Suitability**
 [MLM09, PYC04]. **Suitable** [Tem06, KPP07, KE09, RB06]. **Summation**
 [MN04, MN17, KTD03]. **sums** [LT09b]. **Super**
 [CR02, AC09, CLL07a, Sar03]. **Super-Grid-Scale** [CR02, AC09].
super-lattices [CLL07a]. **Supercell** [FHLK05]. **supercells** [LCG07].
superconducting [DJ04]. **Superconductivity** [DDG02]. **superconformal**
 [SS08]. **Superconvergence** [CS08b]. **superconvergent** [LNXNTX09].
superfluid [LKE04]. **superlattices** [CBC09]. **superlinearly**
 [VSW04, VSW06]. **supersonic** [BP04a, DGJ03, FL07, MT07a, UPKN09].
Support [MHS01, EZ08a, GG09b]. **Support-Operators** [MHS01].
supported [Tow07]. **suppressed** [Bor03]. **suppression** [Lur07]. **supra**
 [MGC06]. **supra-convergent** [MGC06]. **supralinear** [CMG09].
supersonic [BP04b]. **Surface**
 [AINR03, BST01, BK01, CS00, DF00a, GHG01, GKJW07, JTB02, JK02, Nie01,
 RRV06, RRV01, RR02, SZ01, Str01b, TCM⁺00, ZTZ02, ZCMI01, vBRK01,
 AMH04, AMS04, BMN05, Boy05a, BN09, BGN03, Bur05, CPR05, CS05, Che03,
 CFGK05, DS05a, EE08, EG08, FCD⁺06, FCGK05, GV08, GT09b, GFR09,
 GS03b, GCCD07, GAC⁺09, GR07, GS09d, HS09a, HZ07a, Hum05, JCT07,
 Kim05, KIW09, LLP07, LB03a, LN09, LY04, LF04, MS08a, Ni09, NGC⁺07,
 OTCM08, Pee03, PN03, Pop09, QP03, RB05, RMF08, SDGX07, SE04, SK05,
 SAKDJ05, SC08b, TJ09, TW07, WSI08, XMP07, YZ07, YP06, ZKDT07, ZL09].
Surface-Tension-Driven [Str01b, Pop09]. **Surfaces**
 [BCOS01, CBMO02, CBL01, KKGL01, ML01a, MS01, BPL06, BHP07, Cec05,
 CDI09, Chr04, CH08, GH08a, GNNB08, Hel05, JR03, JR04, JCT07, LZ09a,
 LKMU05, MR07b, Nic09, RGS04, RM08, dSMN⁺04]. **Surfactant**
 [GHG01, JL04a, LTH08, XLLZ06, ZEA06]. **surfactant-conserving** [JL04a].
surfactants [GT09b, MT08]. **surrounded** [CPR05]. **Survey** [Ben02, KK04].
suspended [KHdT⁺08, KMSH08, VGZB09, VGBZ09]. **suspension**
 [AH08, FY07]. **Suspensions** [JC02, DMHP07, HO06, HHM04, TG06].
sustained [CBC09]. **sweeping** [COQ06, FLZ09, KOQ04, KOQ08, LSZZ08].
swimmers [HK08b]. **swimming** [KM08a]. **Switch** [KMA⁺01]. **Switch-On**
 [KMA⁺01]. **switching** [CBH03]. **Symbolic**
 [BMDS05, BSP06, CS03, DP00, CS04, MBS03]. **Symmetric**
 [DLS⁺00, GFCK02, HZ02, Mit00, Ver01, BS08a, BPS03, CJR04, JLOT05a,
 KLSW09, LLS09]. **Symmetries** [WZ02, KEB⁺07]. **Symmetrized** [DS06b].
Symmetry [BPMR08, CRB00, Car01, DH09, VV03, Kok09, LW04].
Symmetry-preserving [VV03, Kok09]. **Symplectic**
 [Rei00, COR08, HL06b, HyLL07, HJL09, MGS09, QM03, SHWC07, Tan05a].
Synchronous [MMKP08]. **Synergia** [ASQR06]. **synthetic** [FWP09].
System [AKV00, Ano08-50, FK02, HK01, LP02, MP01a, MP02, MCCT02,

VQSZ02, Wu02, de 00, BSW03, BL04, BP06, BLG⁺08, CGMS03, CR09, CBS05, DMBS05, Del03a, Del07, Eli03, Eli07, GS06a, GS09a, GGMN⁺09, HK08a, HMMR04, HJM⁺05, HGB⁺03, ILL09, JMZ04, Nat06, NMM⁺07, Nis07, SM09b, SA09, VVM05, WO05, WO09]. **systematic** [YC09a]. **Systems** [Ben02, CWWZ00, CPP02, CM02, FMO00, GTD00, HZ02, HR01, HPZ01, KLN⁺01, KKP02, LMSW02, Mu02, Noe00, PS02, PO01, RC00, San01, SSC00, AS05a, AGT05, AC09, BCB03, BKS07, BS09b, BTWGvBW07, BP07, CLS⁺06, CORT09, CGP05, CP06a, Cap08c, Cap09, CBJdlC07, CHM08, CP08, DDD05, De 04, DK07, DKT07, ELVE07, Edw06, FVE04, FHLO08, FHLK05, FT09, GV06, Gui05, HJFW04, HH07b, HM08, Hau08a, Hau08b, HC09, HS09b, Hwa03, HWW07, JRS05, JLOT05a, JHZ⁺09, JAK05, KDOO05, KSHS08, KMOV03, Kau03, KCMM03, KB08, LZL03, LL03c, LVW06b, Liu08, LCM07, LB04, LMZ⁺08, Mad06, MM07, MMKP08, Mil04, MG07b, MC07b, Moo03, NZZ06, NFA03, NZ07, PGB05, PA07a, PDL09, PC06b, PBH04, Pro08, RE07, RP08a, RS05, RS09a, RBL04, Ros06, Ros08, RM07]. **systems** [SS03a, SWB⁺06, SHS08, Str07a, SG03b, Tan05a, TT05a, Tok06b, TT06a, TT06b, THD09, TDV06, VHI06, VTM⁺08, WZL04, Wen06, XS06, YS07a, YKG04, ZIP06, ZFM08, dSMF09]. **Systolic** [DHM03].

T [Har04, AMXL09, DZ09a, JHSZ07]. **T-3** [Har04]. **T/TM** [DZ09a]. **Tabulation** [HGM01, LP09]. **tailored** [dNWvSD07, dTWD09]. **Takizuka** [WLC⁺08]. **tallies** [GMH06]. **tandem** [MAL09]. **tangential** [GH08a, ND04, VQLZ04, ZVQ07]. **Tank** [LLQ⁺02, CN05]. **tanks** [Fra04, LL08a]. **Tapered** [Car01]. **target** [HZ07a, MSO04]. **targets** [HSZ04]. **tau** [RE07]. **taxonomy** [EHS⁺08]. **Taylor** [BZ08, CR00, Dar00a, FS06, FDD09a, GGL⁺01, KB01, LBL08, NCS03, TM05]. **TDGL** [WA02]. **TE** [ZW05]. **TE/TM** [ZW05]. **technical** [BEA09]. **Technique** [AA02, BU02, CL02, GG00, HPZ01, KKR01b, MBP00, NTYT01, NTYT02, SML02, SHS02, WLE⁺00, BGM08, Bet08, BP04a, BGN03, CB03, DDK06, FK07a, FM06, GPVB07, GLLN09, HLL08, LY07b, LJM⁺06, Lar09, LKMU05, MKLU05, MCN03, OTCM08, OK07a, RVVL09, SGFL09, SP05a, WZ09, XYK05, YZLH09, KG09]. **Techniques** [Ben02, HH01, MM01, MOS⁺00, Spo00, BS03b, CR08, CRB⁺08, Dem04, DDDC07, HV03, KS08a, LWG03, PS07c, SY09b, SP05c, SMSS07, VBJ08a]. **telemetry** [CP03b]. **teleportation** [DS05b]. **Telescopic** [GK03]. **Temperature** [ELW01, JK02, HS04, KW03, LZ07, LP06a, MDR07, NVD05, Soc03, XHC08]. **Temperature-Dependent** [ELW01, KW03]. **temperatures** [SK08a]. **Temporal** [CV06, GHV00, Wee02, DGF09]. **Temporally** [Nys02]. **Tensile** [Mon00]. **Tension** [CS00, JTB02, Nie01, RR02, SZ01, Str01b, BN09, FCD⁺06, GV08, GR07, Kim05, LLP07, LF04, Pop09, SAKDJ05]. **Tensor** [BTFY01, CS01a, Edw00, KKCF09, KMHR00, ML01b, KR09b, Lar07, Owe04]. **Tensor-Diffusivity** [ML01b]. **Tensorial** [PB00, NV09]. **tensors** [Hua05]. **Term** [HK00, WK01b, CVB06, DMR09, GS06b, JL04b, PPB09, SK04a].

Terms

[BJ00, BBR01, HGN00, Xu02b, ZCMI01, ASPB03, BP03, HW08, KD09, KG08, LTZ03, MPFC08, RBT03, SZC09, Tol07, TE04, TT05b, Wen06, XS06].

terrain [Ano08-50, SM09b, WS04]. **terrain-following**

[Ano08-50, SM09b, WS04]. **Test**

[HS07b, BZ08, CHM08, DTSC04, GR08, KZWY09, SD06, ZRS06]. **testing**

[Hig05]. **Tests**

[BK01, LLIK01a, LLIK01b, MEG02, SPW⁺00, DLMK04, SD05b].

Tetrahedral

[BT02, MGGH00, MP01b, CBH03, DS05a, MP05, VGPL09, YJ06].

tetrahedron [DR06]. **tetrahedrons** [LJSM08]. **Textbook** [LDPL08].

Textbook-efficiency [LDPL08]. **Their**

[LP01, Saf00, BZ08, GLMH09, HO08b, QS04, Ros08, Tak06, VB08]. **theorem**

[BO09, Tow08]. **Theoretic** [HSK00, HSQ03]. **Theoretical** [Wag05, ZGSD06].

Theories [BTIFY01, CLMRP08, Chr03, HvHHS05, LM08a]. **Theory**

[AKY01, FS00a, FS00b, HWL08, JTB02, YLD09, AK09, BBB08, CXB08,

CBC09, CFM09, FHW07, FLE03, GD07b, HMA05, JR03, JR04, JY08,

KDF07, Lau04, LS05a, MG07a, PM07, RCT07, SF03, XSG08, ZK05].

Thermal [DDG02, GR01, PR00, Sie00, Cho05, DSM09b, EULM03, FHLO08,

FBHV05, LCB09, LM08c, MC04, MHB08, MELD08, MC09, PSC04,

PSMW09, Sof09, TSG⁺06, YWC07]. **Thermal-Creep** [Sie00]. **thermally**

[MY07, RWMK03]. **thermo** [BZ04, KK03a, KP08]. **thermo-** [KK03a].

thermo-acoustic [KP08]. **thermochemical** [KW08b]. **Thermodynamic**

[GC02b]. **thermodynamically** [WAO⁺04]. **thermodynamics** [MY03].

Thermoelastic [BM01a]. **Thermohaline** [DOWB01, AT09].

Thermomechanical [SMGJ09]. **thick** [LSJA05]. **Thickness** [GC02b]. **Thin**

[CMK⁺01, DDF01, DK02a, KK00c, TC01a, DJ04, ES03a, HKM08, JN07,

LSJA05, LHGF05, MC06b, MK04b, MO06, SA06, SRX07]. **thin-structure**

[MK04b]. **Thin-Tube** [KK00c]. **THINC** [Yok07]. **Third**

[Boy02a, GST02, RDPN07, YC09b, CT09, Fox08, Hub07, ZKDT07].

Third-order [YC09b, CT09, Fox08, ZKDT07]. **Third-order-accurate**

[RDPN07]. **Thomas** [PM00]. **Three**

[AKV00, ART04, BFC04b, BZ09, BCMO01, CRB00, CMOV02, DIL03, DK02a,

DOWB01, FVOMY00, FS00a, FS00b, FKK08, HD07, HK01, KP00, LL00,

LTZ02, LK01, LDV08, Lou00, MC02, NTB07, Pai01, PKKL05, PWS⁺02,

PA07b, Saf00, SHWW00, SJ02, SS07b, Sni01, SS01b, WK01a, YXLF05, YW07,

Yua02, ZSP02, ZYC02, AvdB04, AK05, AV03, AC05, AMS04, AMSZ07,

BS04c, BBK07, BHP07, BCI⁺08, CM06, Che04, CCG⁺06, Che07, CFGK05,

Dim07, DLP08, DLW06, Eli07, EES09, FNS07, FRS08, FCGK05, GG04, GS08,

GS09b, GB03, GP04, GWF⁺07, GH02, Gro07, GD06b, HZGB05, HP04a,

HS08a, HLWW04, HLWW06, HWW07, HB05b, IHL03, JVV07, JW03,

KKS05, KAK03, KLP⁺09, LWP⁺09, Lee03, LZ09c, LDPL08, LT09b, LVW06b,

LL08a, MCG08, MRRS05, MSJ07, Moo03, Moo07, MT07b, OLLL03, Pon09].

three

[RB05, RS06b, SBCL06, SCRL08, SG03b, TTZ03, TM05, TXCD07, TT04, TT05a, TC07b, TC09b, TG08, TT05b, TA06, UL06, Wag05, WK04, WW04, XG09, YAvdB⁺08, YBZ04, YKK08, ZP05, ZH09, ZLAC05, ZT07b, LMS02].

three-body [SG03b]. **Three-Center** [Saf00]. **Three-Dimensional** [CRB00, CMOV02, DK02a, DOWB01, FVOMY00, FS00a, FS00b, HK01, KP00, LL00, LK01, Lou00, MC02, Pai01, PWS⁺02, SHWW00, SJ02, Sni01, WK01a, Yua02, ZSP02, ZYC02, ART04, BFC04b, DIL03, FKK08, HD07, LDV08, NTB07, PKKL05, PA07b, SS07b, YXLF05, YW07, AvdB04, AK05, AC05, AMS04, AMSZ07, BS04c, BBK07, BHP07, BCI⁺08, Che04, CFGK05, Dim07, DLP08, Eli07, FNS07, FRS08, FCGK05, GS09b, GB03, GP04, GWF⁺07, Gro07, HZGB05, HP04a, HS08a, HWW07, IHL03, KKS05, KAK03, KLP⁺09, LWP⁺09, Lee03, LZ09c, LDPL08, LT09b, LVW06b, LL08a, MRRS05, MSJ07, MT07b, OLLL03, Pon09, RB05, SCRL08, TM05, TXCD07, TT04, TT05a, TC07b, TC09b, TG08, TA06, UL06, Wag05, WK04, WW04, XG09, YAvdB⁺08, YKK08, ZP05, ZH09, ZLAC05, ZT07b, LMS02].

three-dimensions [TTZ03]. **three-space** [TT05b]. **Threshold** [ET06]. **Thresholding** [RM01b, Moo03]. **throat** [CGH05]. **Thuburn** [TR07]. **Thue** [WWVG00]. **tilted** [DDGS09]. **Time** [AGH02, ACS00, BJM02, Bar02b, BKR⁺01, BS00d, BCVK02, CN05, CM02, DOW08, Dur08, FD03, FKLY07, FMD⁺09, Gen01, GHV00, Gui02, Hig02, KC00, KDW08, LBV01, LR01a, LP06a, Mad06, MBP00, MT01, MHPR08, NU09, Nys02, POS00, PM00, Rem00, RTT01, RB02, VG01, VR02, YP01, ZTZ02, APT09, AKV06, AFGM07, AB07, AK07, AG09, ACLS03, Ata04, Bal08, BBHM09, Bar04, BHNPR07, BHvdV06, BSW05, BH05, CWT00, CCJ07, CT08b, CS08b, CL07b, CJK⁺03, CJ07, CFP06, CFJ06, CVE06, CFP08, DDD05, DR06, Den07, DL04, DWLM09, DKS⁺03, DLP08, DGRS08, DDDC07, ELVE07, FK07b, FH03, Gab07, GGF03, GvH06, GN03, GP04, GK07, GD07b, HS07a, HR08, Han00, HC08, Hig05, HDBW05, HJM⁺05, Hua07, HGB⁺03, ISNY05, JG09, JMC03, KN09, KvdVvdV06a]. **time** [KvdVvdV06b, KvRvdVvdV07, KCM03, KLM07, KT05, KWD07, KB08, KSGF09, LSL08, Lap04, Lau04, LWG03, LTE07, LP04a, LLL07, LXM09, LX07a, LT09a, LCS09, LS09, Liv07, LGM08, LJ07, Low04, LB04, MLSD07, MKOW04, MY06b, MELD08, MU09, MC07b, MPFC08, MK07, OS04, Ols07, Ols09, OK06c, OK07a, OPML07, PAD07, PH09, PR04b, PMP08, PA07b, RBSL06, RVD09, RSS09, RCD05, RRW05, RSO04, RJM07, RMV03, RJ04, SROCF03, SHWC07, SWZ03, SL07b, SC09a, SK08b, SV07, SHPC09, SK06, TZHT04, Ten03, TSB03, TCN09, TDGP06, UBRT07, VPMC04, VW02, VCG03, VSH04, VS07, Wag05, WG08, WRu03, WS04, WC08, YA05, YZW05, ZSW03, ZSW07, ZYC02, ZYL⁺06, ZH09, ZZ09, ZRR00, dSHHM05, dHRvdB07, vZdBB07, vdVvdV02, vdVX07, vdV08, HW02]. **time-accuracy** [GGF03]. **Time-Accurate** [KC00, LP06a, MY06b, OK07a, RVD09]. **time-adaptive** [CFP08]. **Time-Dependent** [AGH02, ACS00, Gen01, RTT01, VR02, FD03, FKLY07, AFGM07, ACLS03, Ata04, CJ07, DL04, DKS⁺03, GN03, GP04, GK07, HDBW05, LWG03,

LP04a, LB04, MU09, OPML07, RCD05, SV07, Ten03, WRu03, WS04].
Time-Domain [GHV00, Rem00, YP01, Lau04, LT09a, LJ07, MLSD07, MPFC08, PAD07, SHWC07, SWZ03, SL07b, VPMC04, VW02, Wag05, WC08, ZH09, dSHHM05, dHRvdB07, HW02]. **Time-Driven** [VS09].
time-evolution [DDD05]. **time-fractional** [LX07a]. **Time-harmonic** [MHPR08, APT09, AG09, BHNPR07, DLP08, Gab07, GD07b].
Time-independent [CN05, CCJ07, CJK⁺03, Lap04, LTE07].
Time-Integration [BKR⁺01, OS04]. **Time-Line** [Gui02]. **Time-parallel** [FMD⁺09]. **time-periodic** [MKOW04, vdV08]. **time-resolved** [Bar04].
Time-reversibility [DOW08]. **time-reversible** [PH09]. **Time-Scale** [LR01a, VG01]. **time-space** [LS09]. **time-split** [SK08b]. **Time-Splitting** [BJM02, MBP00, HJM⁺05, KN09, TCN09]. **Time-Stable** [Nys02].
time-staggered [SK06]. **Time-Stepping** [Hig02, RB02, ZTZ02, Mad06, DR06, HR08, Hig05, LGM08, MPFC08, VSH04].
Times [QS01, Del03b]. **Timesaving** [SMSS07]. **Timescale** [Bar02b].
timeseries [CVE06]. **Time-step** [Car01]. **timestepping** [HSBG05].
timesteps [Pet07]. **tissue** [HK08c, KL06, XDB09]. **Title** [Ano00-28, Ano01-28, Ano02-28]. **TM** [DZ09a, ZW05]. **tokamak** [HJKO08, LL08b]. **tokamaks** [CTS07, LGKP07]. **Tomography** [CBB01, HCG01, BO05, CCT05, FLE03, IKL⁺08, RR07, TMND07, THN⁺07].
tongue [SP07]. **tool** [ASQR06, FK09b]. **Tools** [KT02, Küm04b, LH08a].
Topography [Hor02, BGN03, FG07, GPC07, Geo08]. **topological** [BHR04, HKO07, VCG03]. **topologies** [KT05]. **topology** [AS05b, AA06, Bey09, LTWW07, LLC⁺08, LTM09, WLKW07, ZL08b].
topology-preserving [AS05b]. **Toroidal** [GST00, KP00, ZYKW01, BT07a, BT07b, CTS07, ORM06]. **total** [CT04, CCT05, SLG⁺03, YMW06]. **total-energy** [SLG⁺03]. **Tracing** [LM01, LM03a, MJT06, MCP03, THN⁺07]. **Tracking** [Asl01, ČPT01, CSP01, JC02, NSC09, SJ02, TNGH02, TB00b, THS07, TBE⁺01, ZH01, AMS04, BR09b, Che04, DDS09, DFG⁺06, Fan08, FCD⁺06, GNNB08, HSL08, KLSW09, LLP07, LS08, LDW07, LLGL07, LHGF05, kM07a, MT08, NT07, PP04, PMP08, QS07, QLS09, SPM03, Shy06, SB07, TZ06, Vol04a, WKB07, ZKDT07, ZEA06, ZL08a]. **tracking/front** [dSMN⁺04]. **tracking/ghost** [TT09]. **traction** [Liu09b]. **traditional** [Kas07]. **traffic** [LGN05, ZSWW03, ZWS06]. **trajectories** [DDD05, MESV09]. **trajectory** [NSS03, TW03]. **Transfer** [BS00b, BW01, DK02b, Gen01, IYI⁺02, LTK⁺02, Cha07a, Cha07b, CS03, DL04, DUEB07, FDK06, FKLY07, HL04, HC09, HDBW05, JJGL06, JJGL07, KM03, KNH05, LSA06, LCNR07, LR03, MHB08, MELD08, MU09, MR07c, MAN⁺06, PS07c, RW08, Thö04, TFDK04, WHS08, WMH07, YLD09, YSW06].
Transform [BTSM09, AB05a, CdHST08, HSQ03, KOQ08, OLLL03, SB06a, SS09a, WK06, ZGSD06]. **transform/potential** [HSQ03].
transform/potential-theoretic [HSQ03]. **Transformation** [MBM01, DT03, HHMK05, KR09a, SK05, WS04, ZKDT07].

transformation-free [KR09a]. **Transformations** [Saf02]. **Transformed** [Eli02, Eli03, Eli07]. **Transforms** [SS00, Kry04, VBJ08a, VBJ08b, VB08, WJV07]. **Transient** [CMR08, HLS02a, LWEM00, AFGM07, Hag07, JG09, Kwo08, MR07c, NPH09, PKD07, SO08, vOP04]. **transients** [CGMS03, FF03]. **Transition** [BRL02, GP00b, DJM05, EKP06, GC06, JOS06, LSL08, LZ04, Liu08, LD09b, Sus06, ZT03, vEB05]. **transitional** [DS06b, JD04]. **Transitions** [EKK02]. **Translation** [GM01c, GD07b]. **Transmission** [Wu01, BNV08, BS04d, PSH⁺08]. **Transonic** [EAY01, MSJ07]. **Transparent** [AST07, DKS01, FSY00, SFY01, YFS01, dSHHM05]. **Transport** [AS03b, AL01, Azm02, Bal02, Cul01, DV02, DB00, FW07, GHG01, MD04, MGGH00, Noe00, OF02, UH01, ZZ01, ZKK01, deM02, AT05a, BP06, BMN07, BCCV09, BES07, BS07, BNNP06, BMDS05, BSP06, BH05, CL03a, CL05, CL08d, CLL⁺07b, CS04, DMBS05, DGM07, DL03a, DUEB07, DC08, FWP09, FH07, GS05a, GS05b, GS08, GC06, GYKL05, GLT07, GL09b, HLF07, HJKO08, HF08a, JLT06, JSCZ08, JN07, KB04, KL06, KAS08, KS08b, LZT09, LRMB08, LFX05, Li08a, LD04, Mac07, MBS03, MGNB09, NSS03, NZ05, Ols09, PA05, PL07, RRC05, Rom07, RF06, Ros09, SZ08, STD⁺05, SCC⁺03a, SCC⁺03b, SY08, SXyWX09, TX06, TMSW07, TFD06, TA06, UBR07, WR09, XP04a, XDB09, Yeh07, YE05, ZWS07, ZEA06, Zie04, dA04, dDEK09, dFGLS05, DW00]. **transport-diffusion** [DUEB07]. **Transport/Advection** [DB00]. **transport/reaction** [STD⁺05]. **Transportation** [XY01]. **transported** [MJ07]. **transpose** [JH08]. **transverse** [LKD04]. **Trap** [BMS00]. **Trap-Assisted** [BMS00]. **trapped** [LMK03]. **Traps** [Whi00]. **Travel** [QS01]. **traveling** [EV03, MJ09a]. **travelling** [Boy03]. **traveltime** [TMND07, THN⁺07]. **traveltimes** [QL04]. **Treating** [SHS02, MP07b, WG06, YHCD05, YW07]. **Treatment** [CL02, ELC02, HK00, Li08b, ML01a, MC00b, ZCMI01, AT05a, CVB06, JL04b, LL07, LP04b, MY03, PSG05, SB06a, SAK05, TA06, WAO⁺04, ZJWC08]. **treatments** [JSCZ08, KY08]. **Tree** [BADG00, WPM⁺02b, COQ06, Pop03]. **tree-based** [Pop03]. **Treecode** [LK01, LJK09, Wan04b]. **trees** [ARRS09, CMP07]. **Triangle** [BM01b, GW05, Gir06, Hei05]. **Triangle-Based** [BM01b, GW05, Gir06]. **Triangles** [CDKP00, PR04a]. **Triangular** [HL01, WB01, FD07, GGMN⁺09, Jar04, KI05, KDW08, LGHD08, LSSV07, LNXNTX09, MJT06, Pon07b, SPM03, YJL⁺06, YJ06]. **Triangulated** [Car02, KOQ08]. **triangulations** [CP08]. **triaxial** [San03]. **Trickle** [PCCD00]. **tridiagonal** [PSH⁺08]. **tridiagonalization** [WR09]. **trigonometric** [QM03]. **Trim** [BTSM09]. **Trim-to-Coherence** [BTSM09]. **Triple** [FK09a, KKGL01, Liu09c]. **Triple-decker** [FK09a]. **triply** [JCT07]. **triply-periodic** [JCT07]. **troposphere** [MM09]. **Trotter** [MC07a]. **Trouble** [Boy05b]. **troubled** [BAMD07]. **true** [HAP06]. **truly** [GS03d, LMX⁺08]. **Truncation** [HNGB04, Yam01, Jon05, KK09, Lap04]. **trust** [BC08, HE07]. **trust-region** [BC08, HE07]. **Tryggvason** [Khe04]. **Tsallis** [FH02]. **TSFP** [Ano04-27]. **TSFP-4** [Ano04-27]. **tsunami** [FNBB⁺08]. **Tube**

[KP00, KK00c, Sie00, Low05, ZEA06]. **tubes** [TX06]. **tumor** [ML05, ML06a]. **tuned** [HP04b]. **tunnel** [SSW⁺07]. **tunneling** [DGM07]. **turbid** [Bar04]. **Turbulence** [BRL02, BZB00, FLG01, FSM⁺01, KP00, LS02c, LP02, Pir02, SLY02, SPW⁺00, BB09a, BL09c, CP07, CC05, DDH05, DLD08, DS09b, GBB⁺06, GS09d, HHPW08, HHMK05, HM04, JOS06, KMID05, KMSH08, KAS06, Lar09, LDN04, LQ06, MTWW06, MC06a, ML06b, PHW08, SKWN03, SCC⁺03a, SCC⁺03b, TWM07, TMD07, UPKN09, WGRA09, YSO07, YGL05].

Turbulent

[EAY01, GMB01, JPMC01, LS02a, MK02b, MPC01, MPC02, PPC00, SS02, TSB01, AGW07, BFB08, BIVC07, CRAG07, CMP07, CZ09, DMP08, DBBP08, DS09a, DHM07, FE04, Gra06a, Gra06b, HPD09, HM05, HO03, IK07, KIH09, KIH09, KM06, KM07b, LP06b, MLM09, MJ09b, PPD08, Pro05, Pro07, RJ06, SS07a, SJHM09, SFMP06, VC03, VV03, XLP05, YB06]. **TVB** [BBCT09]. **TVD** [GC01, HL04, KT04, PL09b, SPGR06, YL01].

TVD-interpolating [HL04]. **Two**

[AJG01, ART02, ACS00, Bar02b, BMR01, BMRS02, BdLL01, BZW01, BH05, CFA01, Cal02, CPT01, Cle00, CD00, DCV⁺01, EKK02, Eli02, EF02, FT01, FS00a, FS00b, GS02, GW01, Goe00, GP00b, GKL03, HLS06, Hig02, JWSC00, KK00b, KLVbL02, KMHR00, LKD04, LG09, LTZ02, Low05, LWEM00, Mai01, MR04, Nys02, ODAF06, OS01, PKvdB00, PS01, RC06, Saf00, Saf02, SWL00, SS04, SP00, TC02, TGB⁺07, Tow07, VD02, WK01a, WL02, WB01, Xu01a, YSS07, ZYC02, ARRS09, AV03, AW04, AT09, AMS03, BTW04, BM07, BW07, BH04, CGRGV⁺04, CA06, CHL06b, CSO09, CSL08, CY05, CMR08, CC08b, CDV07, CkM07, DMBS05, DM03, DDK06, DP07, DP08, DCF⁺08, DSS07, DDS09, DS09b, DR09b, EGHE06, Eg07, ECL02, Eli03, EES09, EF03, FRS08, FJ09, FHLK05, FCT07]. **two** [GS09a, GGP06, Gro06, GR07, GD07a, Gui05, HT07, Hel05, HLO08, Her05, Her08, Hig05, HZ07b, HB05a, HT03, HH06, IOTK04, JA08, JBF07, JX06, JN07, KSHS08, KLM05, Kro01, LCB04, LLP07, LSD07, LL05, LS05a, LT09b, LMS08, LTC07, LP04b, LM03b, LHGF05, Ma05, Mai03, Mai04, Mai09b, Mai09a, kM07a, MR06a, MMS04, MR05, MST06, MP03, Men04, ML06b, Mou04, MGNB09, MG05b, MAL09, Nit05, OK05, OKZ07, QA09, QLK07, QS07, RMB07, Ram06, RRC05, RMG⁺09, RMF08, SWK06, SY09a, SS06a, SYC09, SL03, Shy04, Shy06, SSND03, SXyWX09, SSH⁺07, TM07, TOZP03, TTZ03, TMB07, TM05, TPV07, Tol08, VVS08, VCG03, VD03, WZL04, Wen09, WO09, YZ07, YYT05, YBZ04, YF09, YE05, ZLAC05, ZHSS09, vBK03, Cap06, JW02].

Two- [FS00a, FS00b, ZYC02, TTZ03, ZLAC05]. **Two-Body**

[Mai01, Mai03, Mai04]. **Two-component** [SS04]. **Two-Density** [OS01].

two-diagonal [Tol08]. **Two-Dimensional**

[AJG01, ART02, ACS00, BMR01, BMRS02, BdLL01, BZW01, Cal02, CD00, DCV⁺01, Eli02, Goe00, KK00b, LWEM00, PKvdB00, VD02, WL02, BH05, LKD04, LG09, MR04, ODAF06, RC06, ARRS09, AT09, BTW04, BM07, BH04, CSO09, CY05, DCF⁺08, DS09b, ECL02, Eli03, FHLK05, GGP06, Gro06, Gui05, HT07, HT03, JX06, JN07, KSHS08, Kro01, LSD07, LS05a,

LT09b, LTC07, LP04b, Ma05, Mai09b, Mai09a, MMS04, MST06, MP03, Men04, MGNB09, RRC05, SSND03, SS04, TM07, TOZP03, TM05, TPV07, VVS08, VCG03, VD03, WZL04, YYT05, JW02, Cap06]. **Two-Electron** [Saf00, Saf02]. **two-equation** [ML06b]. **Two-Fluid** [ČPT01, HLS06, KLvBvL02, TC02, CDV07, EF03, FJ09, Hel05, JBF07, QA09, SL03, Shy04, vBK03]. **two-layer** [CGRGV⁺04]. **Two-Level** [Hig02, CSL08, Hig05]. **two-medium** [QLK07]. **Two-Phase** [CFA01, ČPT01, Cle00, EF02, GS02, GW01, GP00b, PS01, SP00, Xu01a, Low05, TGB⁺07, YSS07, AW04, AMS03, BW07, CA06, CMR08, DM03, DDK06, DP07, DP08, DSS07, DDS09, EGHE06, FRS08, GR07, GD07a, Her05, Her08, HZ07b, HH06, IOTK04, LL05, LMS08, LM03b, LHGF05, Mou04, QS07, RMB07, RMG⁺09, RMF08, SWK06, SY09a, SS06a, SYC09, SXyWX09, SSH⁺07, TMB07, YZ07, YF09, YE05]. **two-phase/vapour** [BW07]. **two-point** [Eg07]. **Two-Scale** [EKK02]. **two-species** [LCB04]. **Two-Sphere** [KMHR00]. **Two-Timescale** [Bar02b]. **Two-Way** [FT01, WK01a, CC08b, GS09a]. **Type** [Gui02, Han00, HT00a, HT00b, Shy01, WH02, AINR03, BP03, BSLN09, CLS05, CS07a, FNBB⁺08, GCCC09, Hel09b, Lar07, LNGK04, LG05, sLwG08, LLOT06, LCS09, Löh04, NJX09, NF09, PSD09, PL09a, Shy04, TD07, Wen07, WF06, XXS07, XLS09a, AT05b, CJR04, JHZ⁺09, LD04, MN09a, PK03, TB06, XHW07, vBK03].

Uhlenbeck [Del03a]. **Ultimate** [Abg01, VU04]. **Ultra** [HMK02, BH09, BMK⁺06, HMM07, KQW03a, KQW03b]. **ultra-relativistic** [BH09, KQW03a, KQW03b]. **ultra-violet** [BMK⁺06]. **Ultra-Weak** [HMK02]. **ultrashort** [Sau04]. **Unbounded** [CR02, BHNPR07, BP08, DD03a, DD03b, HZ08, VZSL07]. **Uncertain** [Hor02, EN06]. **uncertainties** [AA07, AA09, LSK06]. **Uncertainty** [BPM06, CGH05, CDE06, KG06, LKNG04, Ler06, PDL09, YZL⁺06, CDI09, DEHL06, LNGK04, LK07, PIN09, XK03, XS07]. **Unconditionally** [AB03, Azm02, CYKC01, JTL09, KR02, ML06b, NFGK07, ZZ01]. **under-resolved** [TV08]. **undergoing** [CGDT09]. **Underresolved** [CS01b]. **Understanding** [DWC⁺09]. **underwater** [FRS08, KS08a]. **Unequal** [Zha02]. **uneven** [DL03b]. **unevenly** [Mil05]. **Unidirectional** [dSHHM05]. **Unified** [HK01, KAA⁺07, Wu02, Xia04, XAI06, DBTM08, FK09b, Jia07, JX07, LZ04, Meh04, MY03, SW08c, WD07]. **Uniform** [SV00, Cap08a, FCT07, HKG08, Hu05, HSS07, ISNY05, KK03b, LCG07, NVD07, SZ05, STZ07, Tor03, TB04, Vas00, VSW06, YA05, ZIP06, ZT03]. **uniformity** [NVD05]. **Uniformly** [BLM08]. **unifying** [WG09]. **Unit** [VQSZ02, Hei04, JA08]. **units** [ALT08]. **unity** [GLN06]. **Universe** [BADG00]. **Unlimited** [NT07]. **unmagnetized** [MD04]. **unsaturated** [LMH07]. **unscented** [IKL⁺08]. **Unsplit** [Hu01, CCF⁺05, EB06, GS05b, GS08, LD09a]. **unstable** [AZ05, FCT07, GKE04, KG03]. **Unstaggered** [GHV00]. **unsteadiness** [CGM07]. **Unsteady** [BMRS02, BMQS02, BCVK02, BL01, BGN03, GSD01,

KC00, LHD05, QV01, VC00, WB09b, ZYC02, AM03, BLM04, BCI⁺08, CTW⁺08, DT04, DPRN05, EHD08, GS07, GMAj09, JMC03, KZ04, LDPL08, LF05, LKX04, LGM08, LZH⁺06, MLS⁺05, MGNB09, NJX08b, Pon06, RDPN07, SC08a, SFE07, SY03, TZ03, TZL05, TJS03, Tsy03, VBL03, Wan05, WM07, WGS⁺08, XYK05, You06]. **Unstructured** [BM01b, BW01, DV02, DPCV02, Edw00, HZ07a, HW02, JK00, KC00, LM01, MVM02, Mav02, ML01a, MD06, MG02, OGV02, PW00a, Per00, SC01, SMP01, Wan02, WL02, Wan05, WPH00, WB01, ZSP02, ZTZ02, ZQSD08, dSAK00, AZC05, AB05b, BFB08, BES07, Ber06b, BS03a, BM07, CKvT07, CDDL09, CSO09, CP08, CSKD05, DSM09a, DMR09, DK07, DKTT07, DBTM08, DZ09b, GS09b, HZGB04, HZGB05, HWL08, HV03, HNF07, Her08, HHMK05, JH06, JMC03, JS05, KT03, KT05, KE09, LM03a, LCH03, LK09, LJW09, LSS06, LSSV07, LVW06a, LVW06b, LLB05, LBL06b, LBL07, LZH⁺07, Mai09b, MB04, MCP03, NOG08a, NOG08b, NJX08b, PL09b, PN03, RAD07, RRW05, RWWS07, Ros09, SS05b, SP06a, SP06b, SWL06, TZ03, THD09, TT06c, VSW04, VSW06, WZL04, WLC⁺06, XLS09a, XLS09b, YJL⁺06, YA05]. **unstructured** [ZLAC05]. **Unstructured-Grid** [SMP01, SS05b]. **unstructured-multigrid** [LZH⁺06]. **Untangling** [VGS04]. **Update** [Xu02a]. **updated** [GCCD07]. **upper** [GG09b, MM09, ZK04]. **Upscaling** [DGH08, EPW08, Kou07, Nov04, PC06a]. **upstream** [ST03a]. **Upwind** [CRD02, Hwa03, PD01, STiST02, WB01, AD04, BGN03, BL03, Cap05, Cap06, Cap08b, CS09, DE06, IM07, JAK05, KK07, LWW04, LJ09b, LD04, PYC04, RS06a, RB09b, SGD03, Ser09, SS09c, SS05c, SB03, WZ03, ZYHS07]. **upwind-biased** [JAK05, PYC04]. **upwinding** [CD03, XD07, ZKDT07, ZR08]. **UR** [Har04]. **Use** [DPRS01, MD02, PS02, TK00, VG02, DTMS06, Dic08, GS03c, KFIG06, NLT07, RB06, RBSL06, Ram03, SPLM09, VTW⁺07, WG08]. **used** [KN09, Kau03]. **Useful** [Saf02]. **Using** [AC01, AZ05, BM02, BC02a, BMRS01, BMRS02, BT02, BRL02, Bon00, Bow01, BCMO01, CS01a, CBMO02, CSV00, CL02, CL00b, CB07, DDD05, DGH02, GW02, Gos02, HAAO00, HHL00, HR01, HF01, HPZ01, KMA⁺01, LS02a, LBV00, LP02, LLQ⁺02, MR00, MKM99, PM02, PR01b, RS02, RRL01, Saf02, SSSWD00, ST01, SJ02, SSD00, TK02, TR02a, TTSG01, hRT02, WPH00, Whi00, WHV⁺00, ZYC02, ZF02, ZKK01, APP⁺07, AMH04, AJT04, ÁDIM09, AA06, BLS08, BS04a, BBD04, BIS07, BPO07, BG09, BT09, BCGR05, BJP04, CJLS09, CWJ07, CPG04, CR08, CQO04, CM06, CP04a, CCT05, CEL06, DMHP07, DDK06, DK06, Del03b, DL03a, DW09, DS09a, DST07a, ELD08b, EKP07, FT05, FW07, GMD03, GGS09, GWF⁺07, GKJW07, Gri09, GLLN09, GYKL05, HPS06a, HZ07a, HBHS09, HSBG05, HKS09]. **using** [HS08a, HSZ04, HL07b, HSL08, HF08b, HMM07, IKL⁺08, IM05, ISNY05, JW09, JS05, KKS05, KW08a, KIH09, KK05b, KH07, KYLB07, KZ06, KF06, KR09b, Küm04b, KLP⁺09, LDN04, LKNG04, LWG03, LCG07, LM08b, LAKD08, LK09, LDL⁺09, LNXNTX09, LY04, LBL04, LTWW07, LTL⁺09, LTM09, MKM04, MR06a, MGCR07, MPD08, Men04, MC03, MGS07,

MCN03, MR07c, MHW05, NJLA06, NM06, NI03, OJW06, PS03a, PM07, Pon07b, Pro03, RRC05, RA09, RBT03, Ros09, SRM09, SDR07, SP04, SL04, SO08, SL07b, SAKDJ05, SZ05, SNLS03, SSND03, SCW⁺09, SGG⁺04, SP05c, SJC07, SDT08, SFMP06, zSW06, zS06, SB07, TZ03, TZL05, TLK07, TZ07b, TZ07c, TFD06, TBJ⁺09, TGB⁺07, TdAAP08, VCG03, VS07, WL03, WWC07, WLC⁺06, Xia04, XAI06, XYK05, YM07, YFLS06, YYT05, YSO07, YGL05, YZF⁺06, ZGT06, ZG08, ZC09, ZKS⁺09, ZSTC06]. **using** [ZQSD08, ZQ09, dTDI⁺07, dCNHSD07, vdBG09]. **UV** [Bor03]. **UV-suppressed** [Bor03]. **Uzawa** [BT02, PS07d].

V [LVW06b]. **vacuum** [CTS07, KSHS08]. **valid** [CTS07]. **Validation** [BP08, MHS02, OB06, BT07b, BCM⁺07, MvW08]. **validity** [WZ07]. **VALIS** [SA09]. **Value** [DKX00, DKX01, KJ01, OKL01, ABLS05, BM05, BS05, Eg07, FF03, Kas07, PSM08, RMGK04, SN06, YH07a, dCNHSD07]. **Valued** [MF01, JLOT05a, LW07]. **valve** [vLAvdV06]. **Vanishing** [KK00a, PSZ09, SS07a]. **Vapor** [JLCD01, JWSC00, JW02, AMH04, JW03, Sus03]. **vaporizing** [TMB07]. **vapour** [BW07]. **Variable** [Alb00, BR09a, GQ00, SBGK00, Wan04b, AT09, Ber04, BK08, BRP05, CCG08, DBBP08, FG07, Geo08, GS09c, GD05, HyLL07, HL05, IQ08, KKM08, KKS05, KLP⁺09, LT05, LP06a, MGC06, MDR07, Ni09, OK06a, PS03a, PS07d, RVM07, RVD09, SD05a, SD05b, SHTB09, TBT⁺09]. **variable-** [BRP05]. **variable-density** [AT09, SD05b]. **variable-node** [KLP⁺09]. **Variables** [AD01, Hu01, BB07b, Hau08a, Hau08b, IA06b]. **variance** [DL03a, HH07c, VU04]. **variance-conserving** [VU04]. **variant** [GvH06]. **variants** [JHZ⁺09]. **variates** [GL09a, HKM07]. **variation** [CT04, Kar04]. **Variational** [BCOS01, DCS00, DL03a, Hua01b, HS03b, HMK02, Lap04, Li08b, MN02, NZ05, WGRA09, AZ06, Aza06, CM06, CCT05, FDL08, GZ07a, Gra06a, Gra06b, HMM07, JCT07, MSO04, WSTW09, YFLS06, ZHSS09, ZL08b]. **variations** [Soc03]. **various** [GMO04, PL07]. **Varying** [CKS00, AKLMP09, GTMC08, Kou09, TZHT04, VCZS04]. **Vector** [BS01, CSV00, Whi00, BO05, CJ09, DQ04, FWR07, IA06b, JVV07, LY07a, MBS03, OCFF08, QA09, RRW05, SR09a, SJD05, ST03a, YHSX07]. **Vectorial** [GBGM01, FCJ08a]. **vectorized** [FLE03]. **Vectors** [VSMW01, AL06, RMB07]. **vehicle** [ELD08b]. **velocities** [BFJ03]. **Velocity** [BRL02, Cul01, DC01, FPK08, MM07, MC07a, MF00, Mie00, BL09b, BHR03, CFS09, Car09, CEL06, DBS06, GD07a, GK05, KM06, KM07b, LY04, MC06b, NMS07, Pap08, PM08, Pon06, SH07a, SLC07, SS05c, Tan08, TG04, WFC09, WS09, YAvdB⁺08, ZSC07, ZXQX08]. **velocity-estimation** [PM08]. **Velocity-induced** [MM07]. **velocity-pressure** [NMS07, Pon06]. **Velocity-Vorticity** [DC01, LY04]. **Verification** [MPD08, Roy05, Tak06, WLC⁺06]. **Verified** [HPD09]. **Verlet** [MC07a]. **versatile** [HHC08, MDB⁺08, NC04]. **Version**

[MR01, GH02, GHMP07, LCM07, VMN07, XAI06]. **Versus**
 [Mav02, ABHT03, NVD07]. **Vertical** [BRL02, TW05, TR07, FCT07].
Vertically [MM09]. **Very**
 [DZ09b, GSV09, NK08, STZ07, TR02a, DET08, Heu03]. **Very-high-order**
 [GSV09]. **vesicle** [DLW04, DLW06, ZDD09]. **vesicle-substrate** [ZDD09].
vesicles [GFG09, VGZB09, VGBZ09]. **vessel** [CGN⁺07]. **VI** [SWL06]. **via**
 [AS03b, BHP07, CFM09, Dim07, EE08, ES03b, GS05b, GS08, HS07a, JY08,
 JMK01, KK09, Kry04, LJS08, ML05, OVG07, OK07b, SW00, SKAS01, Sur05,
 TB00a, Tow09a, XK03, ZL04, ZSC07, ZW04]. **Vibration** [SCD00, SZC09].
vicinity [KZWY09, LL07, ZSW03]. **victoria** [SM09a]. **violet** [BMK⁺06].
Virtual [FHJK09, GJK09, Lee03]. **Viscoelastic**
 [PS01, APTJ⁺04, APP⁺07, BPL06, FD03, FKK08, LC03, MDM03,
 TdAAP08, TCM05, VC03, VCT09, YSS07, YZF⁺06, vOP04]. **viscoplastic**
 [BZ04]. **Viscosity**
 [Alb00, CS01a, ELW01, KK00a, LP00, SS03b, BL09c, CLG07, CL06a, Cho05,
 CC04, DLD08, JA08, KKS05, KR09b, Mac03, MLM09, Nov04, Owe04,
 RBH03, RMSB09, Sar03, SS07a, SK04a, TLL⁺08, VHI06]. **Viscous**
 [CKR00, CKR01, CPK02, GPH⁺01, Hun01, MK08a, PW00b, PW01, PSN00,
 QV01, RH01b, Sum00, TC01b, WPW02, Xu01b, ADR08, BL09b, BF08,
 BTW03, CN05, DS06a, DND06, FP08a, GXW07, GH09, GGS09, GGF03,
 GMD07, GGP06, GN07, HEN09, HL07c, HSL08, HLY09, JX06, JX07, KR09a,
 Kel05, LKP06, LLL07, LKO05, LX07b, LDV08, NBLQ09, NJX08a, PKD07,
 PSC⁺06, PWM06, RW03, SROCdPFF05, SC08a, SZC09, SY03, SWL06,
 SK03, TZ03, TZL05, TLL⁺08, VGZB09, VGBZ09, VD03, WFC09, WB09a,
 XH03, XMT05, Xu08, ZKY05]. **Viscous-Plastic** [Hun01]. **Visibility**
 [TCO⁺04]. **visible** [BMK⁺06]. **vision** [FSS03]. **visual** [Asl04b]. **Vlasov**
 [AV02, BS03a, BLG⁺08, CDL05, CLS09b, Eli02, Eli03, Eli07, EB06, FBFF00,
 FSB01, GHB03, GS06b, HZ02, HF01, HGB⁺03, IITV07, IKS⁺09, KB04,
 MCCT02, SG06, SA09, VVM05, VTC⁺07, WO05, WO09]. **VOF**
 [AZB09, GMD03, GW01, LHGF05, LF04, MZ07, Yok07, ZTZ02].
VOF-model [LF04]. **void** [TU04]. **voids** [AIR03]. **Voigt** [CPG04]. **Volume**
 [Ano00s, Ano00t, Ano00u, Ano00v, Ano00w, Ano00x, Ano00y, Ano00z,
 Ano00-27, Ano01s, Ano01t, Ano01u, Ano01v, Ano01w, Ano01x, Ano01y,
 Ano01z, Ano01-27, Ano02s, Ano02t, Ano02u, Ano02v, Ano02w, Ano02x,
 Ano02y, Ano02z, Ano02-27, Ano03-27, Ano03-28, Ano03-29, Ano03-30,
 Ano03-31, Ano03-32, Ano03-33, Ano03-34, Ano03-35, Ano04-28, Ano04-29,
 Ano04-30, Ano04-31, Ano04-32, Ano04-33, Ano04-34, Ano04-35, Ano04-36,
 Ano05-29, Ano05-30, Ano05-31, Ano05-32, Ano05-33, Ano05-34, Ano05-35,
 Ano05-36, Ano05-37, Ano06-28, Ano06-29, Ano06-30, Ano06-31, Ano06-32,
 Ano06-33, Ano06-34, Ano06-35, Ano06-36, Ano07-33, Ano07-34, AMSZ03,
 BM01b, CL00a, DKX01, DPCV02, HF00, Her00, HT00b, JM00, KC00,
 KKC01, KfV⁺05, KKGL01, LLH02, LLIK01a, LM01, LM03a, LSW08,
 LMSW02, MP02, ML01a, MPC02]. **Volume**
 [NTYT02, OGV02, PKP01, PW01, RRL01, RR02, SZ00, SBGK00, SP00,

Tol02a, Wan02, WL02, WW00, ZRR00, APTJ⁺04, APP⁺07, AZC05, AT05a, AT08, AKLMP09, AKO09, AMS03, BAFL09, BES07, BP03, Bot06, BKLL04, BLM04, CT09, CCG08, CMSZ09, CX08, CEH09, CSKD05, CR09, CZVS04, CFP08, DSM09a, DSM09b, De 04, DBF08, DK07, DKTT07, DET08, DBTM08, Dwi08, Edw06, EZ08a, FCD⁺06, FMR09, GPC07, GLM07, GV07, HBHJ08, HJ09, HWL08, HLO08, Her09, IX07, IX09, IDD04, JL04a, JLT03, JLT06, JL09, KDK⁺07, KLK08, Kok09, KS09, LSB04, LGP09, Lap03, LZT09, LYC09, LSSV07, LSV09, LVW06b, LHGF04, LH08a, LMNK07, LJ06, LZH⁺07, MP07a, MSJ07, MZ07, MGS07, MCP03, MR07c, MT07b, NOG08b, NBLQ09, NPPN06, NXS07, NGC⁺07, OK06a, OSK09]. **volume** [PL09b, PS04, PS08, PP04, PSG05, PL07, QM03, RJ06, Ros09, SE09, SJD05, SPM03, SMS04, SS06a, SL07b, Shy06, SMAj08, SC09b, SWL06, SR09b, Sus03, TVMR03, TPV07, TT04, TGB⁺07, Tor03, TA06, TAL09, VL07, VLW07, VBL07, VGPL09, VSW04, VSW06, WZL04, WL06, WTL08, WG09, WA08, XS06, XCRX08, XLP05, XLS09b, YS07c, YS08, ZKDT07, ZH04, ZZ09, ZLAC05, vDZ06, Lab09]. **volume-finite** [CCG08]. **Volume-of-Fluid** [AMSZ03, KfV⁺05, RRL01, RR02, SP00, AMS03, JL04a, PP04, Sus03, TGB⁺07, YJL⁺06]. **volume-penalization** [KDK⁺07]. **volume-preserving** [QM03]. **volume/difference** [WG09]. **Volume/PDF** [LM03a, LM01, MCP03]. **Volumes** [GW01, XMP07]. **Volumetric** [ZKL⁺07, KE09]. **von-Kármán** [YKG04]. **Voronoi** [GS09b]. **VORPAL** [NC04]. **Vortex** [BB04a, Car02, Cor00, CKS00, CMOV02, CP04c, HRV08, KK00c, LK01, MD02, MKM09, Nie01, Nit01, PW00b, PW01, PWS⁺02, SC08b, WK01a, Alb09, BS08a, CLB08, CWD08, CC08b, ECL02, Eld07, FDD09a, Her05, HSC09, LG03a, LG09, MKM04, NSC09, SZC09, SDT08, TB06, WG06, YSO07]. **vortex-dominated** [TB06]. **Vortex-in-Cell** [CP04c, CWD08]. **vortex-induced** [SZC09]. **Vortex/Impulse** [Cor00]. **Vortical** [DS01, LK07]. **vortices** [DJ04]. **Vorticity** [BRL02, Cal02, Che00b, DC01, IK01, LFS07, MGGH00, MF00, QV01, Tol02a, Tol02b, AKH06, BBvdV06, CL06a, DBS06, Eld08a, KJ09b, LL04a, LY04, Pon09, PGN08, WFC09]. **Vorticity-Based** [QV01, Eld08a]. **Vorticity-Divergence** [Tol02a, Tol02b]. **Vorticity-preserving** [LFS07]. **Vorticity-Velocity** [MF00, DBS06, WFC09]. **Vries** [CkM07, LGK06, LY06].

Waals [CL01a, GV02]. **Wachspress** [AC05]. **wake** [BC08]. **wakefield** [HDR⁺06]. **walk** [FG05, LLTA07, MS04, VSV03]. **Wall** [FG02, GGP06, BBW06, CP04c, FPK08, FGP08, GE07, HPD09, IK07, KMID05, KIH09, KDK⁺07, KAS06, KB06, LQ06, MC06a, NTB07, PPDM08, SKWN03, SFMP06, SN08, Tuc03, MK02b, Rid00, RVVL09, Sum00]. **wall-boundary** [GE07]. **Wall-Bounded** [FG02, CP04c, FPK08, FGP08, HPD09, MC06a, PPDM08, SFMP06]. **Wall-driven** [GGP06]. **wall-function** [KAS06]. **wall-pressure** [KIH09]. **walls** [TX06, VHI05, ZTPM05]. **Wang** [Del03a]. **WARP** [GWF⁺07]. **waste**

[KP07]. **Water** [BC01, BST01, Che00a, FR02, Gir00, GHW02, Hor02, LBV00, LBV01, Lay02, LLIK01a, LLIK01b, Tol02a, Tol02b, TTSG01, VS02, Xu02b, ZCMI01, AB07, AB05b, BST03, BN04, BES07, BRC⁺09, BTT08, BB09a, CVB06, CHL06a, CL08a, CGRGV⁺04, Che03, CX08, CLS09a, CZVS04, DJTT05, EKBL09, FG07, GPC07, Geo08, GPF03, GW05, GD05, HS09a, HC08, KJ09b, KLM05, LHD05, LGHD08, LS03, LHZW05, LKW05, LMNK07, Ma05, MY06a, Mea04, MGNB09, NI03, NPPN06, NXS07, ODAF06, RAD07, RB09a, SS03a, SHTB09, TOY09, VTT08, WTL08, XS05a, XG09, vdVX07]. **Wave** [AGH00, AGH02, BM01a, BS06a, BZB00, CS01c, CSV00, DF00a, Dur00, ERT02, FT01, GF02, HHCL01, HK02, Kan02, LL00, LMSV00, LTD04, LAS01, LWEM00, LH05b, Noe00, Rei00, RTT01, Vay00, Vay01, VR02, Wee02, ZB07, APT09, AK07, Ata04, BN04, BP09, BPO07, BO09, BG05a, BG09, BS04d, CHL06a, CL08a, CPG04, CCJ07, CWL08, CHG⁺07, CLS09a, CBI⁺04, CFGK05, DNS08, DS09a, Edw06, EV03, FK09b, FCGK05, GS09a, GFS08, Gom08, GGOB04, GA09, HMOG08, HLS06, HPS⁺06b, Jan08, JW06, KFH⁺04, KFIG06, KSH⁺06, KT06, KfV⁺05, Lau04, LP07a, LZL03, LG03b, LG04, LS09, Ma05, MN06, MHI08, Pir07, PSG05, RBL04, Ros06, SDD07, SK05, Shy06, SD06, TET09, Ten03, Thu08a, TC07b, TC09b, VWW04, Vol04b, Wan04a, XS07, Yan09, YS09, ZH09, Zhe07, dHRvdB07]. **wave-body** [YS09]. **wave-capturing** [Edw06]. **wave-current** [SK05]. **Wave-Propagation** [BM01a, Noe00, MHI08, Shy06, Vol04b]. **wavefield** [BST03]. **wavefields** [BCR04]. **waveform** [CSMH05]. **Wavefronts** [RMO00, Che07]. **wavefunctions** [Boy04, NG06a]. **Waveguide** [PR01b, BBD04, FH03]. **Waveguides** [CdHST08, TB00a, FCJ08a]. **wavelength** [VS07]. **Wavelet** [FHLK05, HK02, PR01b, VB00, AKV06, BLG⁺08, FH03, KDK⁺07, MK08b, NG06a, VK05a]. **Wavelet-Based** [HK02, PR01b]. **wavelet-MRA-based** [BLG⁺08]. **Wavenumber** [KLK08, TK00, CC04]. **Wavenumber-extended** [KLK08]. **Waves** [BST01, Bla00, Boy02b, DF00a, Gua00, MN02, OB02, PC02, SSC00, VCP00, Vay02, WPM02a, WC01, Wu02, AK06b, AM05, BAR08, BFJ03, BWLM09, BCZ04, Boy03, CF06a, CLMRP08, CS05, CDS04, Dur08, EV03, EKBL09, Fan08, FCT07, FG07, Gab07, GB08a, GN03, GP04, GS09d, HS09a, JY08, Kas07, LY07b, LM08a, LTD07, LP04b, MY06a, MLFG06, NB04, SB06b, SM05, Tsy03, VS09, Wan05, XG09, YM07, Yan08, vdVX07]. **wavy** [GMD03]. **Way** [FT01, FSY00, SFY01, WK01a, CC08b, GS09a]. **ways** [BZ09]. **Weak** [AGP01, BMQS02, DF00a, HMK02, KB01, PKvdB00, CP03a, HMM07, KT03]. **weakform** [LNXNTX09]. **weakly** [LMX⁺08, SE04]. **weather** [Lyn08, MS08b, SK08b, SW08c]. **wedge** [ODAF06]. **weight** [MBS03]. **Weighted** [AL01, Azm02, BS00a, BBK07, DZ00, MS01, SK08a, SM04, WC01, Yus06, BCCD08, CB07, HAP05, KLLJ09, LCW04, NF09, TWM07, ZSWW03, ZWS06, ZJS08]. **Weighted-Difference** [Azm02]. **Weighting** [Ver01]. **Weights** [SHS02]. **Well** [BES07, BKLL04, LMNK07, NPPN06, Xu02b, AB05b, GPC07, ILL09, Meh04, NXS07, Rah04, RF06, WSYS09, XS06]. **Well-Balanced** [Xu02b, BES07, LMNK07, NPPN06, AB05b, GPC07,

NXS07, RF06, WSYS09, XS06]. **well-conditioned** [ILL09]. **well-posed** [Meh04, Rah04]. **wells** [JL09]. **Wendroff** [LCS09]. **WENO** [Bal09, BRDM09, BK07, CVB06, Cap08a, Cap08b, CGMS03, CGMS06, CHB09, CS06, CS07d, CD07, CZVS04, GS06a, GR04, HP04b, HLY09, JD09, JC06b, KK05b, LSD07, LBL07, MTWW06, NJX08a, NXS07, Pir02, QS02, QS04, QS05, RLZ03, SHS02, SZS03, TT04, TB04, VS02, VCZS04, XS05a, XS06, XS05c, XLS09a, YC09a, YC09b, ZJ09, ZQSD08, GSV09]. **WENO-based** [LBL07]. **WENO-Boltzmann** [CGMS06]. **WENO-solver** [CGMS03]. **WENO-type** [XLS09a]. **wetting** [Gla05, SHTB09, YZ07]. **which** [IG05]. **whistlers** [LJM⁺06]. **Whitham** [ZSWW03, Boy03]. **Wide** [FSY00, GST00]. **Wide-Angle** [FSY00]. **wideband** [CCG⁺06]. **Wiener** [HLRZ06, LNGK04, LKNG04, MT04]. **Wiener-type** [LNGK04]. **WIGGLE** [LPK05]. **Wigner** [KLW09, RRC05]. **Wind** [STiST02, SSW⁺07]. **windowed** [SZLW06]. **windowing** [SAK05]. **Winds** [LR01b]. **Wire** [BISS01, DDF01, LWW04]. **Wire-Plate** [BISS01, LWW04]. **Wise** [YL01, CBH03, RLZ03]. **within** [AKV00, AJ09, Bae03, FCD⁺06, KG08, SS07a]. **without** [ABRR09a, ABRR09b, BIVC07, Edw06, Giv01, JP03, Kas07, KDC05, Li08a, Mon00, SJ02, TB00b, YGL05, ZSW07]. **WKB** [BP06, GM06]. **Woollings** [TR07]. **Work** [Mac00, LC06b]. **Worst** [PWW00].

X [RR07]. **X-ray** [RR07]. **XTOR** [LL08b].

Yee [LW01, MT01, TE08].

Z [JD09]. **Zakharov** [BSW03, JMZ04]. **Zernike** [KP04]. **Zero** [SBGK00, KKM08]. **zero-Mach** [KKM08]. **Zonal** [BDS07]. **zones** [BAMD07, Bod06]. **zoom** [KP07].

References

Aktas:2002:CCD

- [AA02] Ozgur Aktas and N. R. Aluru. A combined continuum/DSMC technique for multiscale analysis of microfluidic filters. *Journal of Computational Physics*, 178(2):342–372, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970300>.

Amstutz:2006:NAT

- [AA06] Samuel Amstutz and Heiko Andrä. A new algorithm for topology optimization using a level-set method. *Journal of Computational Physics*, 216(2):573–588, August 10, 2006. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005656>.

Agarwal:2007:SLA

- [AA07] Nitin Agarwal and N. R. Aluru. A stochastic Lagrangian approach for geometrical uncertainties in electrostatics. *Journal of Computational Physics*, 226(1):156–179, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001489>.

Agarwal:2009:DAS

- [AA09] Nitin Agarwal and N. R. Aluru. A domain adaptive stochastic collocation approach for analysis of MEMS under uncertainties. *Journal of Computational Physics*, 228(20):7662–7688, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003866>.

Ahusborde:2007:PFH

- [AAC07] Etienne Ahusborde, Mejdi Azaiez, and Jean-Paul Caltagirone. A primal formulation for the Helmholtz decomposition. *Journal of Computational Physics*, 225(1):13–19, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001532>.

Antoine:2003:USD

- [AB03] X. Antoine and C. Besse. Unconditionally stable discretization schemes of non-reflecting boundary conditions for the one-dimensional Schrödinger equation. *Journal of Computational Physics*, 188(1):157–175, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001591>.

Andersson:2005:FGT

- [AB05a] Fredrik Andersson and Gregory Beylkin. The fast Gauss transform with complex parameters. *Journal of Computational Physics*, 203(1):274–286, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003274>.

Audusse:2005:WBP

- [AB05b] Emmanuel Audusse and Marie-Odile Bristeau. A well-balanced positivity preserving “second-order” scheme for shallow water flows on unstructured meshes. *Journal of Computational Physics*, 206(1):311–333, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005157>.

Ambati:2007:STD

- [AB07] V. R. Ambati and O. Bokhove. Space–time discontinuous Galerkin discretization of rotating shallow water equations. *Journal of Computational Physics*, 225(2):1233–1261, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700037X>.

Abgrall:2001:TUC

- [Abg01] R. Abgrall. Toward the ultimate conservative scheme: Following the quest. *Journal of Computational Physics*, 167(2):277–315, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966725>.

Abgrall:2006:ENO

- [Abg06] R. Abgrall. Essentially non-oscillatory residual distribution schemes for hyperbolic problems. *Journal of Computational Physics*, 214(2):773–808, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004730>.

Alpert:2002:ASP

- [ABGV02] B. Alpert, G. Beylkin, D. Gines, and L. Vozovoi. Adaptive solution of partial differential equations in multiwavelet bases. *Journal of Computational Physics*, 182(1):149–190, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971603>.

Adams:2003:PMS

- [ABHT03] Mark Adams, Marian Brezina, Jonathan Hu, and Ray Tuminaro. Parallel multigrid smoothing: polynomial versus Gauss–Seidel. *Journal of Computational Physics*, 188(2):593–610, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001943>.

Antoine:2009:ABC

- [ABK09] Xavier Antoine, Christophe Besse, and Pauline Klein. Absorbing boundary conditions for the one-dimensional Schrödinger equation with an exterior repulsive potential. *Journal of Computational Physics*, 228(2):312–335, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004804>.

Acebron:2005:PID

- [ABLS05] Juan A. Acebrón, Maria Pia Busico, Piero Lanucara, and Renato Spigler. Probabilistically induced domain decomposition methods for elliptic boundary-value problems. *Journal of Computational Physics*, 210(2):421–438, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002263>.

Abramov:2006:PCF

- [Abr06] Rafail Abramov. A practical computational framework for the multidimensional moment-constrained maximum entropy principle. *Journal of Computational Physics*, 211(1):198–209, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002688>.

Abramov:2007:IAM

- [Abr07] Rafail V. Abramov. An improved algorithm for the multidimensional moment-constrained maximum entropy problem. *Journal of Computational Physics*, 226(1):621–644, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001994>.

Abramov:2009:MMC

- [Abr09] Rafail V. Abramov. The multidimensional moment-constrained maximum entropy problem: a BFGS algorithm with constraint scaling. *Journal of Computational Physics*, 228(1):96–108, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004555>.

Akhmatskaya:2009:CGH

- [ABRR09a] Elena Akhmatkaya, Nawaf Bou-Rabee, and Sebastian Reich. A comparison of generalized hybrid Monte Carlo methods with and without momentum flip. *Journal of Computational Physics*, 228(6):2256–2265, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006323>. See erratum [ABRR09b].

Akhmatskaya:2009:ECG

- [ABRR09b] Elena Akhmatkaya, Nawaf Bou-Rabee, and Sebastian Reich. Erratum to “A comparison of generalized hybrid Monte Carlo methods with and without momentum flip” [J. Comput. Phys. **228** (2009) 2256–2265]. *Journal of Computational Physics*, 228(19):7492–7496, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003477>. See [ABRR09a].

Axner:2008:PEP

- [ABZ⁺08] L. Axner, J. Bernsdorf, T. Zeiser, P. Lammers, J. Linxweiler, and A. G. Hoekstra. Performance evaluation of a parallel sparse lattice Boltzmann solver. *Journal of Computational Physics*, 227(10):4895–4911, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800051X>.

Abarbanel:2000:SSHa

- [AC00] Saul S. Abarbanel and Alina E. Chertock. Strict stability of high-order compact implicit finite-difference schemes: The role of boundary conditions for hyperbolic PDEs, I. *Journal*

of Computational Physics, 160(1):42–66, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964209>.

Alexander:2001:AMC

- [AC01] S. A. Alexander and R. L. Coldwell. Atomic and molecular calculations using quasirandom numbers. *Journal of Computational Physics*, 172(2):908–916, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968652>.

Anderson:2005:FWM

- [AC05] Christopher R. Anderson and Thomas C. Cecil. A Fourier–Wachspress method for solving Helmholtz’s equation in three-dimensional layered domains. *Journal of Computational Physics*, 205(2):706–718, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004875>.

Appelo:2009:HOS

- [AC09] Daniel Appellö and Tim Colonius. A high-order super-grid-scale absorbing layer and its application to linear hyperbolic systems. *Journal of Computational Physics*, 228(11):4200–4217, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001089>.

Adrover:2007:SBD

- [ACGV07] A. Adrover, F. Creta, M. Giona, and M. Valorani. Stretching-based diagnostics and reduction of chemical kinetic models with diffusion. *Journal of Computational Physics*, 225(2):1442–1471, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000629>.

Allaire:2002:FEM

- [ACK02] Grégoire Allaire, Sébastien Clerc, and Samuel Kokh. A five-equation model for the simulation of interfaces between compressible fluids. *Journal of Computational*

Physics, 181(2):577–616, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971433>.

Assous:2003:NST

- [ACLS03] F. Assous, P. Ciarlet, Jr., S. Labrunie, and J. Segré. Numerical solution to the time-dependent Maxwell equations in axisymmetric singular domains: the singular complement method. *Journal of Computational Physics*, 191(1):147–176, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003097>.

Antoine:2008:NAH

- [ACR08] Xavier Antoine, Chokri Chniti, and Karim Ramdani. On the numerical approximation of high-frequency acoustic multiple scattering problems by circular cylinders. *Journal of Computational Physics*, 227(3):1754–1771, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004305>.

Assous:2000:NST

- [ACS00] F. Assous, P. Ciarlet, Jr., and J. Segré. Numerical solution to the time-dependent Maxwell equations in two-dimensional singular domains: The singular complement method. *Journal of Computational Physics*, 161(1):218–249, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964994>.

Abarbanel:2000:SSHb

- [ACY00] Saul S. Abarbanel, Alina E. Chertock, and Amir Yefet. Strict stability of high-order compact implicit finite-difference schemes: The role of boundary conditions for hyperbolic PDEs, II. *Journal of Computational Physics*, 160(1):67–87, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964210>.

Aslanyan:2001:SVD

- [AD01] A. Aslanyan and E. B. Davies. Separation of variables in deformed cylinders. *Journal of Computational Physics*, 174(1):327–344, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196913X>.

Ajaev:2003:BIS

- [AD03] Vladimir S. Ajaev and Stephen H. Davis. Boundary-integral simulations of containerless solidification. *Journal of Computational Physics*, 187(2):492–503, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001207>.

Aprovitola:2004:ACU

- [AD04] Andrea Aprovitola and Filippo Maria Denaro. On the application of congruent upwind discretizations for large eddy simulations. *Journal of Computational Physics*, 194(1):329–343, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004856>.

Ainley:2008:MIR

- [ADE⁺08] Josephine Ainley, Sandra Durkin, Rafael Embid, Priya Boindala, and Ricardo Cortez. The method of images for regularized stokeslets. *Journal of Computational Physics*, 227(9):4600–4616, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000417>.

Alvarez:2009:CRU

- [ÁDIM09] Diego Álvarez, Oliver Dorn, Natalia Irishina, and Miguel Moscoso. Crack reconstruction using a level-set strategy. *Journal of Computational Physics*, 228(16):5710–5721, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002150>.

Asvadurov:2000:ADG

- [ADK00] Sergey Asvadurov, Vladimir Druskin, and Leonid Knizhnerman. Application of the difference Gaussian rules to solution of hyperbolic problems. *Journal of Computational Physics*, 158(1):116–135, February 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964100>.

Asvadurov:2002:ADG

- [ADK02] Sergey Asvadurov, Vladimir Druskin, and Leonid Knizhnerman. Application of the difference Gaussian rules to solution of hyperbolic problems: II. Global expansion. *Journal of Computational Physics*, 175(1):24–49, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968780>.

Ardekani:2008:CMP

- [ADR08] A. M. Ardekani, S. Dabiri, and R. H. Rangel. Collision of multi-particle and general shape objects in a viscous fluid. *Journal of Computational Physics*, 227(24):10094–10107, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004312>.

Assous:2003:NMC

- [ADS03] F. Assous, T. Pougeard Dulinbert, and J. Segré. A new method for coalescing particles in PIC codes. *Journal of Computational Physics*, 187(2):550–571, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001244>.

Abdulle:2003:FDH

- [AE03] Assyr Abdulle and Weinan E. Finite difference heterogeneous multi-scale method for homogenization problems. *Journal of Computational Physics*, 191(1):18–39, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003036>.

Anderson:2004:ALE

- [AEP04] R. W. Anderson, N. S. Elliott, and R. B. Pember. An arbitrary Lagrangian–Eulerian method with adaptive mesh refinement for the solution of the Euler equations. *Journal of Computational Physics*, 199(2):598–617, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400097X>.

Alauzet:2007:TFP

- [AFGM07] F. Alauzet, P. J. Frey, P. L. George, and B. Mohammadi. 3D transient fixed point mesh adaptation for time-dependent problems: Application to CFD simulations. *Journal of Computational Physics*, 222(2):592–623, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600369X>.

Atassi:2008:INB

- [AG08] Oliver V. Atassi and José M. Galán. Implementation of non-reflecting boundary conditions for the nonlinear Euler equations. *Journal of Computational Physics*, 227(3):1643–1662, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004202>.

Antoine:2009:PRM

- [AG09] Xavier Antoine and Christophe Geuzaine. Phase reduction models for improving the accuracy of the finite element solution of time-harmonic scattering problems I: General approach and low-order models. *Journal of Computational Physics*, 228(8):3114–3136, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000291>.

Alpert:2000:IEF

- [AGH00] Bradley Alpert, Leslie Greengard, and Thomas Hagstrom. An integral evolution formula for the wave equation. *Journal of Computational Physics*, 162(2):536–543, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965471>.

Alpert:2002:NBC

- [AGH02] Bradley Alpert, Leslie Greengard, and Thomas Hagstrom. Nonreflecting boundary conditions for the time-dependent wave equation. *Journal of Computational Physics*, 180(1): 270–296, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970932>.

Auteri:2001:RLC

- [AGP01] F. Auteri, J.-L. Guermond, and N. Parolini. Role of the LBB condition in weak spectral projection methods. *Journal of Computational Physics*, 174(1):405–420, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969220>.

Archibald:2009:DDM

- [AGSX09] Rick Archibald, Anne Gelb, Rishu Saxena, and Dongbin Xiu. Discontinuity detection in multivariate space for stochastic simulations. *Journal of Computational Physics*, 228(7):2676–2689, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000060>.

Alexander:2002:ARS

- [AGT02] Francis J. Alexander, Alejandro L. Garcia, and Daniel M. Tartakovsky. Algorithm refinement for stochastic partial differential equations: I. Linear diffusion. *Journal of Computational Physics*, 182(1):47–66, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971494>.

Alexander:2005:ARS

- [AGT05] Francis J. Alexander, Alejandro L. Garcia, and Daniel M. Tartakovsky. Algorithm refinement for stochastic partial differential equations: II. Correlated systems. *Journal of Computational Physics*, 207(2):769–787, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000501>.

Ayala:2007:HAS

- [AGW07] Orlando Ayala, Wojciech W. Grabowski, and Lian-Ping Wang. A hybrid approach for simulating turbulent collisions of hydrodynamically-interacting particles. *Journal of Computational Physics*, 225(1):51–73, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005778>.

Ahamadi:2008:LFE

- [AH08] M. Ahamadi and O. G. Harlen. A Lagrangian finite element method for simulation of a suspension under planar extensional flow. *Journal of Computational Physics*, 227(16):7543–7560, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002477>.

Adams:2004:ISS

- [AHF04] N. A. Adams, S. Hickel, and S. Franz. Implicit subgrid-scale modeling by adaptive deconvolution. *Journal of Computational Physics*, 200(2):412–431, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001743>.

Arienti:2003:LSA

- [AHMS03] Marco Arienti, Patrick Hung, Eric Morano, and Joseph E. Shepherd. A level set approach to Eulerian–Lagrangian coupling. *Journal of Computational Physics*, 185(1):213–251, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000554>.

Allampalli:2009:HAL

- [AHNS09] Vasanth Allampalli, Ray Hixon, M. Nallasamy, and Scott D. Sawyer. High-accuracy large-step explicit Runge–Kutta (HALE–RK) schemes for computational aeroacoustics. *Journal of Computational Physics*, 228(10):3837–3850, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000849>.

Airaksinen:2007:AMB

- [AHPT07] Tuomas Airaksinen, Erkki Heikkola, Anssi Pennanen, and Jari Toivanen. An algebraic multigrid based shifted-Laplacian preconditioner for the Helmholtz equation. *Journal of Computational Physics*, 226(1):1196–1210, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002288>.

Arian:2009:AHD

- [AI09] Eyal Arian and Angelo Iollo. Analytic Hessian derivation for the quasi-one-dimensional Euler equations. *Journal of Computational Physics*, 228(2):476–490, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005068>.

Ainsworth:2004:DDB

- [Ain04] Mark Ainsworth. Dispersive and dissipative behaviour of high order discontinuous Galerkin finite element methods. *Journal of Computational Physics*, 198(1):106–130, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400021X>.

Averbuch:2003:SEB

- [AINR03] Amir Averbuch, Moshe Israeli, Menachem Nathan, and Igor Ravve. Surface evolution in bare bamboo-type metal lines under diffusion and electric field effects. *Journal of Computational Physics*, 188(2):640–677, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001992>.

Averbuch:2003:EIV

- [AIR03] Amir Averbuch, Moshe Israeli, and Igor Ravve. Electromigration of intergranular voids in metal films for microelectronic interconnects. *Journal of Computational Physics*, 186(2):481–502, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000706>.

Averbuch:2001:CEI

- [AIRY01] Amir Averbuch, Moshe Israeli, Igor Ravve, and Irad Yavneh. Computation for electromigration in interconnects of microelectronic devices. *Journal of Computational Physics*, 167(2):316–371, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966774>.

Anand:2009:SME

- [AJ09] Gaurav Anand and Patrick Jenny. Stochastic modeling of evaporating sprays within a consistent hybrid joint PDF framework. *Journal of Computational Physics*, 228(6):2063–2081, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006153>.

Akcelik:2001:NOT

- [AJG01] Volkan Akcelik, Branislav Jaramaz, and Omar Ghattas. Nearly orthogonal two-dimensional grid generation with aspect ratio control. *Journal of Computational Physics*, 171(2):805–821, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968111>.

Allaire:2004:SOU

- [AJT04] Grégoire Allaire, François Jouve, and Anca-Maria Toader. Structural optimization using sensitivity analysis and a level-set method. *Journal of Computational Physics*, 194(1):363–393, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300487X>.

Abgrall:2001:CCM

- [AK01] Rémi Abgrall and Smadar Karni. Computations of compressible multifluids. *Journal of Computational Physics*, 169(2):594–623, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966853>.

Albensoeder:2005:ATD

- [AK05] S. Albensoeder and H. C. Kuhlmann. Accurate three-dimensional lid-driven cavity flow. *Journal of Computational Physics*, 206(2):536–558, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000033>.

Ahn:2006:SCF

- [AK06a] Hyung Taek Ahn and Yannis Kallinderis. Strongly coupled flow/structure interactions with a geometrically conservative ALE scheme on general hybrid meshes. *Journal of Computational Physics*, 219(2):671–696, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001987>.

Appelo:2006:NAL

- [AK06b] Daniel Appelo and Gunilla Kreiss. A new absorbing layer for elastic waves. *Journal of Computational Physics*, 215(2):642–660, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005097>.

Anderson:2007:NAS

- [AK07] Matthew Anderson and Jung-Han Kimn. A numerical approach to space-time finite elements for the wave equation. *Journal of Computational Physics*, 226(1):466–476, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001672>.

Ahn:2009:ACM

- [AK09] Jae Wan Ahn and Chongam Kim. An axisymmetric computational model of generalized hydrodynamic theory for rarefied multi-species gas flows. *Journal of Computational Physics*, 228(11):4088–4117, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900093X>.

Anderson:2006:SVF

- [AKH06] Patrick D. Anderson, Bert J. Keestra, and Martien A. Hulsen. On the streamfunction-vorticity formulation in sliding bi-period frames: Application to bulk behavior for polymer blends. *Journal of Computational Physics*, 212(1):268–287, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003207>.

Akcelik:2008:SDD

- [AKL⁺08] Volkan Akcelik, Kwok Ko, Lie-Quan Lee, Zenghai Li, Cho-Kuen Ng, and Liling Xiao. Shape determination for deformed electromagnetic cavities. *Journal of Computational Physics*, 227(3):1722–1738, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004275>.

Arun:2009:FVE

- [AKLMP09] K. R. Arun, M. Kraft, M. Lukáčová-Medvid'ová, and Phoolan Prasad. Finite volume evolution Galerkin method for hyperbolic conservation laws with spatially varying flux functions. *Journal of Computational Physics*, 228(2):565–590, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005317>.

Audusse:2009:CDC

- [AKO09] E. Audusse, R. Klein, and A. Owinoh. Conservative discretization of Coriolis force in a finite volume framework. *Journal of Computational Physics*, 228(8):2934–2950, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000102>.

Atzberger:2007:SIB

- [AKP07] Paul J. Atzberger, Peter R. Kramer, and Charles S. Peskin. A stochastic immersed boundary method for fluid-structure dynamics at microscopic length scales. *Journal of Computational Physics*, 224(2):1255–1292, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005766>.

Abrashkevich:2000:NMS

- [AKV00] A. G. Abrashkevich, M. S. Kaschiev, and S. I. Vinit-sky. A new method for solving an eigenvalue problem for a system of three Coulomb particles within the hyper-spherical adiabatic representation. *Journal of Computational Physics*, 163(2):328–348, September 20, 2000. CO-DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965628>.

Alam:2006:SST

- [AKV06] Jahrul M. Alam, Nicholas K.-R. Kevlahan, and Oleg V. Vasilyev. Simultaneous space–time adaptive wavelet solu-tion of nonlinear parabolic differential equations. *Journal of Computational Physics*, 214(2):829–857, May 20, 2006. CO-DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004754>.

Adler:2001:CNT

- [AKY01] Carl Adler, Ronald Kneusel, and William Younger. Chaos, number theory, and computers. *Journal of Computa-tional Physics*, 166(1):165–172, January 1, 2001. CO-DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966458>.

Anistratov:2001:NLW

- [AL01] Dmitriy Y. Anistratov and Edward W. Larsen. Nonlinear and linear α -weighted methods for particle transport problems. *Journal of Computational Physics*, 173(2):664–684, Novem-ber 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969050>.

An:2006:FAB

- [AL06] Xiang An and Zhi-Qing Lü. A fast algorithm based on partial basic solution vectors domain decomposition method for scattering analysis of electrically large cylinders. *Jour-nal of Computational Physics*, 219(2):930–942, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003378>.

Asinari:2008:CLB

- [AL08] Pietro Asinari and Li-Shi Luo. A consistent lattice Boltzmann equation with baroclinic coupling for mixtures. *Journal of Computational Physics*, 227(8):3878–3895, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005396>.

Albers:2000:LMR

- [Alb00] Michael Albers. A local mesh refinement multigrid method for 3-D convection problems with strongly variable viscosity. *Journal of Computational Physics*, 160(1):126–150, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964386>.

Alben:2008:IMC

- [Alb08] Silas Alben. An implicit method for coupled flow-body dynamics. *Journal of Computational Physics*, 227(10):4912–4933, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000521>.

Alben:2009:SDF

- [Alb09] Silas Alben. Simulating the dynamics of flexible bodies and vortex sheets. *Journal of Computational Physics*, 228(7):2587–2603, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006591>.

Arber:2001:SGL

- [ALGM01] T. D. Arber, A. W. Longbottom, C. L. Gerrard, and A. M. Milne. A staggered grid, Lagrangian–Eulerian remap code for 3-D MHD simulations. *Journal of Computational Physics*, 171(1):151–181, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967804>.

Anderson:2008:GPM

- [ALT08] Joshua A. Anderson, Chris D. Lorenz, and A. Travasset. General purpose molecular dynamics simulations fully im-

plemented on graphics processing units. *Journal of Computational Physics*, 227(10):5342–5359, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000818>.

Abgrall:2003:CSO

- [AM03] Rémi Abgrall and Mohamed Mezhine. Construction of second order accurate monotone and stable residual distribution schemes for unsteady flow problems. *Journal of Computational Physics*, 188(1):16–55, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000846>.

Abgrall:2004:CSO

- [AM04] Rémi Abgrall and Mohamed Mezhine. Construction of second-order accurate monotone and stable residual distribution schemes for steady problems. *Journal of Computational Physics*, 195(2):474–507, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005400>.

Aslan:2005:NSI

- [AM05] Necdet Aslan and Michael Mond. A numerical scheme for ionizing shock waves. *Journal of Computational Physics*, 210(2):401–420, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002251>.

Al-Mohssen:2004:APC

- [AMH04] Husain A. Al-Mohssen and Nicolas G. Hadjiconstantinou. Arbitrary-pressure chemical vapor deposition modeling using direct simulation Monte Carlo with nonlinear surface chemistry. *Journal of Computational Physics*, 198(2):617–627, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000543>.

Aubry:2008:DPC

- [AMLC08] Romain Aubry, Fernando Mut, Rainald Löhner, and Juan R. Cebal. Deflated preconditioned conjugate gradient solvers for the pressure-Poisson equation. *Journal of Computational Physics*, 227(24):10196–10208, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004518>.

Apte:2009:NMF

- [AMP09] Sourabh V. Apte, Mathieu Martin, and Neelesh A. Patankar. A numerical method for fully resolved simulation (FRS) of rigid particle-flow interactions in complex flows. *Journal of Computational Physics*, 228(8):2712–2738, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006268>.

Alonso-Mallo:2006:HOF

- [AMR06] Isaías Alonso-Mallo and Nuria Reguera. A high order finite element discretization with local absorbing boundary conditions of the linear Schrödinger equation. *Journal of Computational Physics*, 220(1):409–421, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002488>.

Aulisa:2003:MMV

- [AMS03] Eugenio Aulisa, Sandro Manservigi, and Ruben Scardovelli. A mixed markers and volume-of-fluid method for the reconstruction and advection of interfaces in two-phase and free-boundary flows. *Journal of Computational Physics*, 188(2):611–639, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001967>.

Aulisa:2004:SMA

- [AMS04] Eugenio Aulisa, Sandro Manservigi, and Ruben Scardovelli. A surface marker algorithm coupled to an area-preserving marker redistribution method for three-dimensional interface tracking. *Journal of Computational Physics*, 197(2):555–584,

July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006521>.

Aulisa:2003:GAP

- [AMSZ03] Eugenio Aulisa, Sandro Manservigi, Ruben Scardovelli, and Stephane Zaleski. A geometrical area-preserving volume-of-fluid advection method. *Journal of Computational Physics*, 192(1):355–364, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003759>.

Aulisa:2007:IRL

- [AMSZ07] E. Aulisa, S. Manservigi, R. Scardovelli, and S. Zaleski. Interface reconstruction with least-squares fit and split advection in three-dimensional Cartesian geometry. *Journal of Computational Physics*, 225(2):2301–2319, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001325>.

An:2009:CNI

- [AMXL09] Heng-Bin An, Ze-Yao Mo, Xiao-Wen Xu, and Xu Liu. On choosing a nonlinear initial iterate for solving the 2-D 3-T heat conduction equations. *Journal of Computational Physics*, 228(9):3268–3287, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000345>.

Anderson:2009:ESS

- [And09] Christopher R. Anderson. Efficient solution of the Schroedinger–Poisson equations in layered semiconductor devices. *Journal of Computational Physics*, 228(13):4745–4756, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001557>.

Anonymous:2000:APAc

- [Ano00a] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 158(1):136–137, February 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964416>.

Anonymous:2000:APAd

- [Ano00b] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 158(2):263–264, March 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096457X>.

Anonymous:2000:AP Ae

- [Ano00c] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 159(1):123–124, March 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964672>.

Anonymous:2000:AP Af

- [Ano00d] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 159(2):456–457, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964933>.

Anonymous:2000:AP Ag

- [Ano00e] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 160(1):401–402, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965161>.

Anonymous:2000:AP Ah

- [Ano00f] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 160(2):783–784, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965252>.

Anonymous:2000:AP Ai

- [Ano00g] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 161(1):376–377, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965355>.

Anonymous:2000:APAj

- [Ano00h] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 161(2):728–729, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965392>.

Anonymous:2000:APAk

- [Ano00i] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 162(1):299–300, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965586>.

Anonymous:2000:APAl

- [Ano00j] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 162(2):544–545, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965781>.

Anonymous:2000:APAm

- [Ano00k] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 163(1):268–269, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965896>.

Anonymous:2000:APAn

- [Ano00l] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 163(2):548–549, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966075>.

Anonymous:2000:APAo

- [Ano00m] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 164(1):238–239, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966191>.

Anonymous:2000:APAp

- [Ano00n] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 164(2):429–430, November 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966282>.

Anonymous:2000:APAr

- [Ano00o] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 165(1):307–308, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966518>.

Anonymous:2000:APAr

- [Ano00p] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 165(2):771–772, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966609>.

Anonymous:2000:APAA

- [Ano00q] Anonymous. Abstracts of papers to appear in future issues. *Journal of Computational Physics*, 157(1):417–418, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964124>.

Anonymous:2000:APAb

- [Ano00r] Anonymous. Abstracts of papers to appear in future issues. *Journal of Computational Physics*, 157(2):801–802, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199919996429X>.

Anonymous:2000:AIVa

- [Ano00s] Anonymous. Author index for volume 157. *Journal of Computational Physics*, 157(2):803, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964306>.

Anonymous:2000:AIVb

- [Ano00t] Anonymous. Author index for volume 158. *Journal of Computational Physics*, 158(2):265, March 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964581>.

Anonymous:2000:AIVc

- [Ano00u] Anonymous. Author index for volume 159. *Journal of Computational Physics*, 159(2):458, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964945>.

Anonymous:2000:AIVd

- [Ano00v] Anonymous. Author index for volume 160. *Journal of Computational Physics*, 160(2):785, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965264>.

Anonymous:2000:AIVe

- [Ano00w] Anonymous. Author index for volume 161. *Journal of Computational Physics*, 161(2):730, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965409>.

Anonymous:2000:AIVf

- [Ano00x] Anonymous. Author index for volume 162. *Journal of Computational Physics*, 162(2):546, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965793>.

Anonymous:2000:AIVg

- [Ano00y] Anonymous. Author index for volume 163. *Journal of Computational Physics*, 163(2):550, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966087>.

Anonymous:2000:AIVh

- [Ano00z] Anonymous. Author index for volume 164. *Journal of Computational Physics*, 164(2):431, November 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966294>.

Anonymous:2000:AIVi

- [Ano00-27] Anonymous. Author index for volume 165. *Journal of Computational Physics*, 165(2):773, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966646>.

Anonymous:2000:CAT

- [Ano00-28] Anonymous. Cumulative author–title index 1995–2000. *Journal of Computational Physics*, 165(2):774–809, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966749>.

Anonymous:2000:E

- [Ano00-29] Anonymous. Editorial. *Journal of Computational Physics*, 157(1):1, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964112>.

Anonymous:2001:APAA

- [Ano01a] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 166(1):186–187, January 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966938>.

Anonymous:2001:APAb

- [Ano01b] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 166(2):425–426, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967026>.

Anonymous:2001:APAc

- [Ano01c] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 167(1):244–245, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967166>.

Anonymous:2001:APAd

- [Ano01d] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 167(2):502–503, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967294>.

Anonymous:2001:AP Ae

- [Ano01e] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 168(1):265, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967427>.

Anonymous:2001:AP Af

- [Ano01f] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 168(2):527–528, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967671>.

Anonymous:2001:AP Ag

- [Ano01g] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 169(1):246–247, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967828>.

Anonymous:2001:AP Ah

- [Ano01h] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 169(2):760–761, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968068>.

Anonymous:2001:APAi

- [Ano01i] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 170(1):457–458, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968330>.

Anonymous:2001:APAj

- [Ano01j] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 170(2):917–918, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968391>.

Anonymous:2001:APAk

- [Ano01k] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 171(1):423–424, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968524>.

Anonymous:2001:APAl

- [Ano01l] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 171(2):851–852, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968688>.

Anonymous:2001:APAm

- [Ano01m] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 172(1):399–400, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196886X>.

Anonymous:2001:APAn

- [Ano01n] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 172(2):924–925, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969207>.

Anonymous:2001:APAo

- [Ano01o] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 173(1):391–392, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969281>.

Anonymous:2001:APAp

- [Ano01p] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 173(2):797–798, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969499>.

Anonymous:2001:APaq

- [Ano01q] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 174(1):489–490, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969669>.

Anonymous:2001:APAr

- [Ano01r] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 174(2):947–948, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969803>.

Anonymous:2001:AIVa

- [Ano01s] Anonymous. Author index for volume 166. *Journal of Computational Physics*, 166(2):427, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967038>.

Anonymous:2001:AIVb

- [Ano01t] Anonymous. Author index for volume 167. *Journal of Computational Physics*, 167(2):504, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967300>.

Anonymous:2001:AIVc

- [Ano01u] Anonymous. Author index for volume 168. *Journal of Computational Physics*, 168(2):529, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967683>.

Anonymous:2001:AIVd

- [Ano01v] Anonymous. Author index for volume 169. *Journal of Computational Physics*, 169(2):762, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196807X>.

Anonymous:2001:AIVe

- [Ano01w] Anonymous. Author index for volume 170. *Journal of Computational Physics*, 170(2):921, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196841X>.

Anonymous:2001:AIVf

- [Ano01x] Anonymous. Author index for volume 171. *Journal of Computational Physics*, 171(2):853, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196869X>.

Anonymous:2001:AIVg

- [Ano01y] Anonymous. Author index for volume 172. *Journal of Computational Physics*, 172(2):926, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969219>.

Anonymous:2001:AIVh

- [Ano01z] Anonymous. Author index for volume 173. *Journal of Computational Physics*, 173(2):799, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969505>.

Anonymous:2001:AIVi

- [Ano01-27] Anonymous. Author index for volume 174. *Journal of Computational Physics*, 174(2):949, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969815>.

Anonymous:2001:CAT

- [Ano01-28] Anonymous. Cumulative author–title index 1996–2001. *Journal of Computational Physics*, 174(2):950–986, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969827>.

Anonymous:2001:E

- [Ano01-29] Anonymous. Editorial. *Journal of Computational Physics*, 174(2):491, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969797>.

Anonymous:2002:APAA

- [Ano02a] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 175(1):361–362, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969839>.

Anonymous:2002:APAb

- [Ano02b] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 175(2):793–794, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969888>.

Anonymous:2002:APAc

- [Ano02c] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 176(1):228–229, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101970007>.

Anonymous:2002:APAd

- [Ano02d] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 176(2):507–508, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101970196>.

Anonymous:2002:AP Ae

- [Ano02e] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 177(1):206–207, March 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101970329>.

Anonymous:2002:AP Af

- [Ano02f] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 177(2):451–452, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970452>.

Anonymous:2002:AP Ag

- [Ano02g] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 178(1):261–262, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970555>.

Anonymous:2002:AP Ah

- [Ano02h] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 178(2):563–564, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970695>.

Anonymous:2002:AP Ai

- [Ano02i] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 179(1):346–347, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971007>.

Anonymous:2002:APAj

- [Ano02j] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 179(2):736–737, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971147>.

Anonymous:2002:APAk

- [Ano02k] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 180(1):404–405, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971342>.

Anonymous:2002:APAl

- [Ano02l] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 180(2):775–776, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971561>.

Anonymous:2002:APAm

- [Ano02m] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 181(1):395–396, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971731>.

Anonymous:2002:APAn

- [Ano02n] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 181(2):760–761, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971810>.

Anonymous:2002:APAo

- [Ano02o] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 182(1):355–356, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972086>.

Anonymous:2002:APAp

- [Ano02p] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 182(2):651–652, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972438>.

Anonymous:2002:APAq

- [Ano02q] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 183(1):332–333, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972116>.

Anonymous:2002:APAr

- [Ano02r] Anonymous. Abstracts of papers to appear. *Journal of Computational Physics*, 183(2):676, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972128>.

Anonymous:2002:AIVa

- [Ano02s] Anonymous. Author index for volume 175. *Journal of Computational Physics*, 175(2):795, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196989X>.

Anonymous:2002:AIVb

- [Ano02t] Anonymous. Author index for volume 176. *Journal of Computational Physics*, 176(2):509, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101970202>.

Anonymous:2002:AIVc

- [Ano02u] Anonymous. Author index for volume 177. *Journal of Computational Physics*, 177(2):453, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970464>.

Anonymous:2002:AIVd

- [Ano02v] Anonymous. Author index for volume 178. *Journal of Computational Physics*, 178(2):565, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970701>.

Anonymous:2002:AIVe

- [Ano02w] Anonymous. Author index for volume 179. *Journal of Computational Physics*, 179(2):738, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971159>.

Anonymous:2002:AIVf

- [Ano02x] Anonymous. Author index for volume 180. *Journal of Computational Physics*, 180(2):777, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971573>.

Anonymous:2002:AIVg

- [Ano02y] Anonymous. Author index for volume 181. *Journal of Computational Physics*, 181(2):762, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971822>.

Anonymous:2002:AIVh

- [Ano02z] Anonymous. Author index for volume 182. *Journal of Computational Physics*, 182(2):653, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297244X>.

Anonymous:2002:AIVi

- [Ano02-27] Anonymous. Author index for volume 183. *Journal of Computational Physics*, 183(2):677, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297213X>.

Anonymous:2002:CAT

- [Ano02-28] Anonymous. Cumulative author–title index 1997–2002. *Journal of Computational Physics*, 183(2):678–715, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972141>.

Anonymous:2002:E

- [Ano02-29] Anonymous. Editorial. *Journal of Computational Physics*, 181(2):397, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971883>.

Anonymous:2003:EBa

- [Ano03a] Anonymous. Editorial Board. *Journal of Computational Physics*, 184(1):??, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000712>.

Anonymous:2003:EBb

- [Ano03b] Anonymous. Editorial Board. *Journal of Computational Physics*, 185(1):??, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000354>.

Anonymous:2003:EBc

- [Ano03c] Anonymous. Editorial Board. *Journal of Computational Physics*, 185(2):??, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000536>.

Anonymous:2003:EBd

- [Ano03d] Anonymous. Editorial Board. *Journal of Computational Physics*, 186(1):??, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001062>.

Anonymous:2003:EBe

- [Ano03e] Anonymous. Editorial Board. *Journal of Computational Physics*, 187(1):??, May 1, 2003. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001724>.

Anonymous:2003:EBf

- [Ano03f] Anonymous. Editorial Board. *Journal of Computational Physics*, 188(1):??, June 10, 2003. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002390>.

Anonymous:2003:EBg

- [Ano03g] Anonymous. Editorial Board. *Journal of Computational Physics*, 189(1):??, July 20, 2003. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002869>.

Anonymous:2003:EBh

- [Ano03h] Anonymous. Editorial Board. *Journal of Computational Physics*, 190(1):??, September 1, 2003. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003577>.

Anonymous:2003:EBi

- [Ano03i] Anonymous. Editorial Board. *Journal of Computational Physics*, 190(2):??, September 20, 2003. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003814>.

Anonymous:2003:EBj

- [Ano03j] Anonymous. Editorial Board. *Journal of Computational Physics*, 191(1):??, October 10, 2003. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300442X>.

Anonymous:2003:EBk

- [Ano03k] Anonymous. Editorial Board. *Journal of Computational Physics*, 191(2):??, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004716>.

Anonymous:2003:EBl

- [Ano03l] Anonymous. Editorial board. *Journal of Computational Physics*, 192(1):??, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005205>.

Anonymous:2003:EBm

- [Ano03m] Anonymous. Editorial Board. *Journal of Computational Physics*, 192(2):??, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005424>.

Anonymous:2003:IEBa

- [Ano03n] Anonymous. IFC (Editorial Board). *Journal of Computational Physics*, 184(2):??, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000159>.

Anonymous:2003:IEBb

- [Ano03o] Anonymous. IFC (Editorial Board). *Journal of Computational Physics*, 187(2):??, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300216X>.

Anonymous:2003:IEBc

- [Ano03p] Anonymous. IFC(Editorial Board). *Journal of Computational Physics*, 189(2):??, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003334>.

Anonymous:2003:IAa

- [Ano03q] Anonymous. Instructions to authors. *Journal of Computational Physics*, 185(2):??, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000573>.

Anonymous:2003:IAb

- [Ano03r] Anonymous. Instructions to authors. *Journal of Computational Physics*, 186(2):??, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001438>.

Anonymous:2003:IAc

- [Ano03s] Anonymous. Instructions to authors. *Journal of Computational Physics*, 187(1):??, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300175X>.

Anonymous:2003:IAd

- [Ano03t] Anonymous. Instructions to authors. *Journal of Computational Physics*, 188(1):??, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002420>.

Anonymous:2003:IAe

- [Ano03u] Anonymous. Instructions to authors. *Journal of Computational Physics*, 189(1):??, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002894>.

Anonymous:2003:IAf

- [Ano03v] Anonymous. Instructions to authors. *Journal of Computational Physics*, 190(1):??, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003607>.

Anonymous:2003:IAg

- [Ano03w] Anonymous. Instructions to authors. *Journal of Computational Physics*, 191(1):??, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004455>.

Anonymous:2003:IAh

- [Ano03x] Anonymous. Instructions to authors. *Journal of Computational Physics*, 192(1):??, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005230>.

Anonymous:2003:PNa

- [Ano03y] Anonymous. Publisher's note. *Journal of Computational Physics*, 184(1):v, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000785>.

Anonymous:2003:PNb

- [Ano03z] Anonymous. Publisher's note. *Journal of Computational Physics*, 191(1):v, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004492>.

Anonymous:2003:VAIa

- [Ano03-27] Anonymous. Volume author index. *Journal of Computational Physics*, 184(2):679, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000184>.

Anonymous:2003:VAIb

- [Ano03-28] Anonymous. Volume author index. *Journal of Computational Physics*, 185(2):628, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000561>.

Anonymous:2003:VAIc

- [Ano03-29] Anonymous. Volume author index. *Journal of Computational Physics*, 186(2):704–705, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001426>.

Anonymous:2003:VAId

- [Ano03-30] Anonymous. Volume author index. *Journal of Computational Physics*, 187(2):716–717, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002195>.

Anonymous:2003:VAIe

- [Ano03-31] Anonymous. Volume author index. *Journal of Computational Physics*, 188(2):678–679, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002602>.

Anonymous:2003:VAIf

- [Ano03-32] Anonymous. Volume author index. *Journal of Computational Physics*, 189(2):676, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300336X>.

Anonymous:2003:VAIg

- [Ano03-33] Anonymous. Volume author index. *Journal of Computational Physics*, 190(2):682, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300384X>.

Anonymous:2003:VAIh

- [Ano03-34] Anonymous. Volume author index. *Journal of Computational Physics*, 191(2):670, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004741>.

Anonymous:2003:VAIi

- [Ano03-35] Anonymous. Volume author index. *Journal of Computational Physics*, 192(2):732–733, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300545X>.

Anonymous:2004:EBa

- [Ano04a] Anonymous. Editorial board. *Journal of Computational Physics*, 193(1):??, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005552>.

Anonymous:2004:EBb

- [Ano04b] Anonymous. Editorial board. *Journal of Computational Physics*, 193(2):??, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300634X>.

Anonymous:2004:EBc

- [Ano04c] Anonymous. Editorial board. *Journal of Computational Physics*, 194(1):??, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000051>.

Anonymous:2004:EBd

- [Ano04d] Anonymous. Editorial board. *Journal of Computational Physics*, 194(2):??, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000403>.

Anonymous:2004:EBe

- [Ano04e] Anonymous. Editorial board. *Journal of Computational Physics*, 195(1):??, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000695>.

Anonymous:2004:EBf

- [Ano04f] Anonymous. Editorial board. *Journal of Computational Physics*, 196(1):??, May 1, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001172>.

Anonymous:2004:EBg

- [Ano04g] Anonymous. Editorial board. *Journal of Computational Physics*, 196(2):??, May 20, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400138X>.

Anonymous:2004:EBh

- [Ano04h] Anonymous. Editorial board. *Journal of Computational Physics*, 197(1):??, June 10, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400155X>.

Anonymous:2004:EBi

- [Ano04i] Anonymous. Editorial board. *Journal of Computational Physics*, 197(2):??, July 1, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001949>.

Anonymous:2004:EBj

- [Ano04j] Anonymous. Editorial board. *Journal of Computational Physics*, 198(1):??, July 20, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002189>.

Anonymous:2004:EBk

- [Ano04k] Anonymous. Editorial board. *Journal of Computational Physics*, 198(2):??, August 10, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002463>.

Anonymous:2004:EBI

- [Ano04l] Anonymous. Editorial board. *Journal of Computational Physics*, 199(1):??, September 1, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002803>.

Anonymous:2004:EBm

- [Ano04m] Anonymous. Editorial board. *Journal of Computational Physics*, 200(1):??, October 10, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003353>.

Anonymous:2004:EBn

- [Ano04n] Anonymous. Editorial board. *Journal of Computational Physics*, 200(2):??, November 1, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003444>.

Anonymous:2004:EBo

- [Ano04o] Anonymous. Editorial board. *Journal of Computational Physics*, 201(1):??, November 20, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003535>.

Anonymous:2004:EBp

- [Ano04p] Anonymous. Editorial board. *Journal of Computational Physics*, 201(2):??, December 10, 2004. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003651>.

Anonymous:2004:IAa

- [Ano04q] Anonymous. Instructions to authors. *Journal of Computational Physics*, 193(1):??, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005588>.

Anonymous:2004:IAb

- [Ano04r] Anonymous. Instructions to authors. *Journal of Computational Physics*, 194(1):??, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000087>.

Anonymous:2004:IAc

- [Ano04s] Anonymous. Instructions to authors. *Journal of Computational Physics*, 195(1):??, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000725>.

Anonymous:2004:IAd

- [Ano04t] Anonymous. Instructions to authors. *Journal of Computational Physics*, 196(1):??, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001202>.

Anonymous:2004:IAe

- [Ano04u] Anonymous. Instructions to authors. *Journal of Computational Physics*, 197(1):??, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001585>.

Anonymous:2004:IAf

- [Ano04v] Anonymous. Instructions to authors. *Journal of Computational Physics*, 198(1):??, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002219>.

Anonymous:2004:IAg

- [Ano04w] Anonymous. Instructions to authors. *Journal of Computational Physics*, 199(1):??, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002839>.

Anonymous:2004:IAh

- [Ano04x] Anonymous. Instructions to authors. *Journal of Computational Physics*, 200(1):??, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003389>.

Anonymous:2004:IAi

- [Ano04y] Anonymous. Instructions to authors. *Journal of Computational Physics*, 201(1):??, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003560>.

Anonymous:2004:MNA

- [Ano04z] Anonymous. Mathematical and numerical aspects of low Mach number flows. *Journal of Computational Physics*, 195(2):??, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400107X>.

Anonymous:2004:T

- [Ano04-27] Anonymous. TSFP-4. *Journal of Computational Physics*, 198(1):??, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002268>.

Anonymous:2004:VAIa

- [Ano04-28] Anonymous. Volume author index. *Journal of Computational Physics*, 193(2):739, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006375>.

Anonymous:2004:VAIb

- [Ano04-29] Anonymous. Volume author index. *Journal of Computational Physics*, 194(2):809–810, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000439>.

Anonymous:2004:VAIc

- [Ano04-30] Anonymous. Volume author index. *Journal of Computational Physics*, 195(2):804–805, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001032>.

Anonymous:2004:VAId

- [Ano04-31] Anonymous. Volume author index. *Journal of Computational Physics*, 196(2):773–774, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400141X>.

Anonymous:2004:VAIe

- [Ano04-32] Anonymous. Volume author index. *Journal of Computational Physics*, 197(2):781–782, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001974>.

Anonymous:2004:VAIf

- [Ano04-33] Anonymous. Volume author index. *Journal of Computational Physics*, 198(2):771–772, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002499>.

Anonymous:2004:VAIg

- [Ano04-34] Anonymous. Volume author index. *Journal of Computational Physics*, 199(2):809–810, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003067>.

Anonymous:2004:VAIh

- [Ano04-35] Anonymous. Volume author index. *Journal of Computational Physics*, 200(2):795–796, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400347X>.

Anonymous:2004:VAIi

- [Ano04-36] Anonymous. Volume author index. *Journal of Computational Physics*, 201(2):798–799, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003687>.

Anonymous:2005:EBa

- [Ano05a] Anonymous. Editorial board. *Journal of Computational Physics*, 202(1):??, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003778>.

Anonymous:2005:EBb

- [Ano05b] Anonymous. Editorial board. *Journal of Computational Physics*, 202(2):??, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004401>.

Anonymous:2005:EBc

- [Ano05c] Anonymous. Editorial board. *Journal of Computational Physics*, 203(1):??, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004528>.

Anonymous:2005:EBd

- [Ano05d] Anonymous. Editorial board. *Journal of Computational Physics*, 203(2):??, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004978>.

Anonymous:2005:EBe

- [Ano05e] Anonymous. Editorial board. *Journal of Computational Physics*, 204(1):??, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000550>.

Anonymous:2005:EBf

- [Ano05f] Anonymous. Editorial board. *Journal of Computational Physics*, 204(2):??, April 10, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000628>.

Anonymous:2005:EBg

- [Ano05g] Anonymous. Editorial board. *Journal of Computational Physics*, 205(1):??, May 1, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000719>.

Anonymous:2005:EBh

- [Ano05h] Anonymous. Editorial board. *Journal of Computational Physics*, 205(2):??, May 20, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000975>.

Anonymous:2005:EBi

- [Ano05i] Anonymous. Editorial board. *Journal of Computational Physics*, 206(1):??, June 10, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001427>.

Anonymous:2005:EBj

- [Ano05j] Anonymous. Editorial board. *Journal of Computational Physics*, 206(2):??, July 1, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001518>.

Anonymous:2005:EBk

- [Ano05k] Anonymous. Editorial board. *Journal of Computational Physics*, 207(1):??, July 20, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001610>.

Anonymous:2005:EBI

- [Ano05l] Anonymous. Editorial board. *Journal of Computational Physics*, 207(2):??, August 10, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001683>.

Anonymous:2005:EBm

- [Ano05m] Anonymous. Editorial board. *Journal of Computational Physics*, 208(1):??, September 1, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002123>.

Anonymous:2005:EBn

- [Ano05n] Anonymous. Editorial board. *Journal of Computational Physics*, 208(2):??, September 20, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002305>.

Anonymous:2005:EBo

- [Ano05o] Anonymous. Editorial board. *Journal of Computational Physics*, 209(1):??, October 10, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500241X>.

Anonymous:2005:EBp

- [Ano05p] Anonymous. Editorial board. *Journal of Computational Physics*, 209(2):??, November 1, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002974>.

Anonymous:2005:EBq

- [Ano05q] Anonymous. Editorial board. *Journal of Computational Physics*, 210(1):??, November 20, 2005. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003359>.

Anonymous:2005:EBr

- [Ano05r] Anonymous. Editorial board. *Journal of Computational Physics*, 210(2):??, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003621>.

Anonymous:2005:FAC

- [Ano05s] Anonymous. First announcement and call for papers (HEFAT2005). *Journal of Computational Physics*, 203(2):??, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500029X>.

Anonymous:2005:IAa

- [Ano05t] Anonymous. Instructions to authors. *Journal of Computational Physics*, 202(1):??, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003808>.

Anonymous:2005:IAb

- [Ano05u] Anonymous. Instructions to authors. *Journal of Computational Physics*, 203(1):??, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004553>.

Anonymous:2005:IAc

- [Ano05v] Anonymous. Instructions to authors. *Journal of Computational Physics*, 204(1):??, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000586>.

Anonymous:2005:IAd

- [Ano05w] Anonymous. Instructions to authors. *Journal of Computational Physics*, 205(1):??, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000744>.

Anonymous:2005:IAe

- [Ano05x] Anonymous. Instructions to authors. *Journal of Computational Physics*, 206(1):??, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001452>.

Anonymous:2005:IAf

- [Ano05y] Anonymous. Instructions to authors. *Journal of Computational Physics*, 207(1):??, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001646>.

Anonymous:2005:IAg

- [Ano05z] Anonymous. Instructions to authors. *Journal of Computational Physics*, 208(1):??, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002159>.

Anonymous:2005:IAh

- [Ano05-27] Anonymous. Instructions to authors. *Journal of Computational Physics*, 209(1):??, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002445>.

Anonymous:2005:IAi

- [Ano05-28] Anonymous. Instructions to authors. *Journal of Computational Physics*, 210(1):??, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003384>.

Anonymous:2005:VAIa

- [Ano05-29] Anonymous. Volume author index. *Journal of Computational Physics*, 202(2):794–795, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004437>.

Anonymous:2005:VAIb

- [Ano05-30] Anonymous. Volume author index. *Journal of Computational Physics*, 203(2):761–762, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005005>.

Anonymous:2005:VAIc

- [Ano05-31] Anonymous. Volume author index. *Journal of Computational Physics*, 204(2):805–806, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000653>.

Anonymous:2005:VAId

- [Ano05-32] Anonymous. Volume author index. *Journal of Computational Physics*, 205(2):776–777, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001002>.

Anonymous:2005:VAIe

- [Ano05-33] Anonymous. Volume author index. *Journal of Computational Physics*, 206(2):781–782, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001543>.

Anonymous:2005:VAIf

- [Ano05-34] Anonymous. Volume author index. *Journal of Computational Physics*, 207(2):788–789, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001713>.

Anonymous:2005:VAIg

- [Ano05-35] Anonymous. Volume author index. *Journal of Computational Physics*, 208(2):790–791, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002330>.

Anonymous:2005:VAIh

- [Ano05-36] Anonymous. Volume author index. *Journal of Computational Physics*, 209(2):796–797, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003001>.

Anonymous:2005:VAIi

- [Ano05-37] Anonymous. Volume author index. *Journal of Computational Physics*, 210(2):752–753, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003657>.

Anonymous:2006:EBa

- [Ano06a] Anonymous. Editorial board. *Journal of Computational Physics*, 211(1):??, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004006>.

Anonymous:2006:EBb

- [Ano06b] Anonymous. Editorial Board. *Journal of Computational Physics*, 211(2):??, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004389>.

Anonymous:2006:EBc

- [Ano06c] Anonymous. Editorial Board. *Journal of Computational Physics*, 212(1):??, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500519X>.

Anonymous:2006:EBd

- [Ano06d] Anonymous. Editorial Board. *Journal of Computational Physics*, 212(2):??, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005267>.

Anonymous:2006:EBe

- [Ano06e] Anonymous. Editorial Board. *Journal of Computational Physics*, 213(1):??, March 20, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000489>.

Anonymous:2006:EBf

- [Ano06f] Anonymous. Editorial Board. *Journal of Computational Physics*, 213(2):??, April 10, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000659>.

Anonymous:2006:EBg

- [Ano06g] Anonymous. Editorial Board. *Journal of Computational Physics*, 214(1):??, May 1, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000982>.

Anonymous:2006:EBh

- [Ano06h] Anonymous. Editorial Board. *Journal of Computational Physics*, 214(2):??, May 20, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001082>.

Anonymous:2006:EBi

- [Ano06i] Anonymous. Editorial Board. *Journal of Computational Physics*, 215(1):??, June 10, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001537>.

Anonymous:2006:EBj

- [Ano06j] Anonymous. Editorial Board. *Journal of Computational Physics*, 215(2):??, July 1, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001756>.

Anonymous:2006:EBk

- [Ano06k] Anonymous. Editorial Board. *Journal of Computational Physics*, 216(1):??, July 20, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002063>.

Anonymous:2006:EBl

- [Ano06l] Anonymous. Editorial Board. *Journal of Computational Physics*, 216(2):??, August 10, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600235X>.

Anonymous:2006:EBm

- [Ano06m] Anonymous. Editorial Board. *Journal of Computational Physics*, 217(1):??, September 1, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003251>.

Anonymous:2006:EBn

- [Ano06n] Anonymous. Editorial Board. *Journal of Computational Physics*, 217(2):??, September 20, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003846>.

Anonymous:2006:EBo

- [Ano06o] Anonymous. Editorial Board. *Journal of Computational Physics*, 218(1):??, October 10, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004013>.

Anonymous:2006:EBp

- [Ano06p] Anonymous. Editorial Board. *Journal of Computational Physics*, 218(2):??, November 1, 2006. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004104>.

Anonymous:2006:EBq

- [Ano06q] Anonymous. Editorial Board. *Journal of Computational Physics*, 219(1):??, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004578>.

Anonymous:2006:EBr

- [Ano06r] Anonymous. Editorial Board. *Journal of Computational Physics*, 219(2):??, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004876>.

Anonymous:2006:EBs

- [Ano06s] Anonymous. Editorial Board. *Journal of Computational Physics*, 220(1):??, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600502X>.

Anonymous:2006:IAa

- [Ano06t] Anonymous. Instructions to authors. *Journal of Computational Physics*, 211(1):??, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004031>.

Anonymous:2006:IAb

- [Ano06u] Anonymous. Instructions to authors. *Journal of Computational Physics*, 212(1):??, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500522X>.

Anonymous:2006:IAc

- [Ano06v] Anonymous. Instructions to authors. *Journal of Computational Physics*, 213(1):??, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000519>.

Anonymous:2006:IA_d

- [Ano06w] Anonymous. Instructions to authors. *Journal of Computational Physics*, 214(1):??, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600101X>.

Anonymous:2006:IA_e

- [Ano06x] Anonymous. Instructions to authors. *Journal of Computational Physics*, 215(1):??, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001562>.

Anonymous:2006:IA_f

- [Ano06y] Anonymous. Instructions to authors. *Journal of Computational Physics*, 216(1):??, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002099>.

Anonymous:2006:IA_g

- [Ano06z] Anonymous. Instructions to authors. *Journal of Computational Physics*, 217(1):??, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003287>.

Anonymous:2006:IA_h

- [Ano06-27] Anonymous. Instructions to authors. *Journal of Computational Physics*, 218(1):??, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004049>.

Anonymous:2006:VA_{Ia}

- [Ano06-28] Anonymous. Volume author index. *Journal of Computational Physics*, 211(2):784–785, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004419>.

Anonymous:2006:VAIb

- [Ano06-29] Anonymous. Volume author index. *Journal of Computational Physics*, 212(2):798–799, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005310>.

Anonymous:2006:VAIc

- [Ano06-30] Anonymous. Volume author index. *Journal of Computational Physics*, 213(2):876–877, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000684>.

Anonymous:2006:VAId

- [Ano06-31] Anonymous. Volume author index. *Journal of Computational Physics*, 214(2):878–879, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001112>.

Anonymous:2006:VAIe

- [Ano06-32] Anonymous. Volume author index. *Journal of Computational Physics*, 215(2):778–779, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001781>.

Anonymous:2006:VAIf

- [Ano06-33] Anonymous. Volume author index. *Journal of Computational Physics*, 216(2):802–803, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002385>.

Anonymous:2006:VAIg

- [Ano06-34] Anonymous. Volume author index. *Journal of Computational Physics*, 217(2):868–869, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003871>.

Anonymous:2006:VAIh

- [Ano06-35] Anonymous. Volume author index. *Journal of Computational Physics*, 218(2):878–879, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600413X>.

Anonymous:2006:VAIi

- [Ano06-36] Anonymous. Volume author index. *Journal of Computational Physics*, 219(2):1013–1014, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005584>.

Anonymous:2007:CCa

- [Ano07a] Anonymous. Contents continued. *Journal of Computational Physics*, 225(1):??, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002914>.

Anonymous:2007:CCb

- [Ano07b] Anonymous. Contents continued. *Journal of Computational Physics*, 225(2):??, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002938>.

Anonymous:2007:CCc

- [Ano07c] Anonymous. Contents continued. *Journal of Computational Physics*, 226(2):??, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004111>.

Anonymous:2007:CCla

- [Ano07d] Anonymous. Contents continued from IBC. *Journal of Computational Physics*, 227(1):??, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004573>.

Anonymous:2007:CC1b

- [Ano07e] Anonymous. Contents continued from IBC. *Journal of Computational Physics*, 227(2):??, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005074>.

Anonymous:2007:EBa

- [Ano07f] Anonymous. Editorial Board. *Journal of Computational Physics*, 220(2):??, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005122>.

Anonymous:2007:EBb

- [Ano07g] Anonymous. Editorial Board. *Journal of Computational Physics*, 221(1):??, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005225>.

Anonymous:2007:EBc

- [Ano07h] Anonymous. Editorial Board. *Journal of Computational Physics*, 221(2):??, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005304>.

Anonymous:2007:EBd

- [Ano07i] Anonymous. Editorial Board. *Journal of Computational Physics*, 222(1):??, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000228>.

Anonymous:2007:EBe

- [Ano07j] Anonymous. Editorial Board. *Journal of Computational Physics*, 222(2):??, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000514>.

Anonymous:2007:EBf

- [Ano07k] Anonymous. Editorial Board. *Journal of Computational Physics*, 223(1):??, April 10, 2007. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001052>.

Anonymous:2007:EBg

- [Ano07l] Anonymous. Editorial Board. *Journal of Computational Physics*, 223(2):??, May 1, 2007. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001131>.

Anonymous:2007:EBh

- [Ano07m] Anonymous. Editorial Board. *Journal of Computational Physics*, 224(1):??, May 20, 2007. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001763>.

Anonymous:2007:EBi

- [Ano07n] Anonymous. Editorial Board. *Journal of Computational Physics*, 224(2):??, June 10, 2007. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700188X>.

Anonymous:2007:EBj

- [Ano07o] Anonymous. Editorial Board. *Journal of Computational Physics*, 225(1):??, July 1, 2007. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002835>.

Anonymous:2007:EBk

- [Ano07p] Anonymous. Editorial Board. *Journal of Computational Physics*, 225(2):??, August 10, 2007. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002951>.

Anonymous:2007:EBI

- [Ano07q] Anonymous. Editorial Board. *Journal of Computational Physics*, 226(1):??, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003646>.

Anonymous:2007:EBm

- [Ano07r] Anonymous. Editorial Board. *Journal of Computational Physics*, 226(2):??, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004032>.

Anonymous:2007:EBn

- [Ano07s] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(1):??, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004524>.

Anonymous:2007:EBo

- [Ano07t] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(2):??, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004883>.

Anonymous:2007:ICCa

- [Ano07u] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 225(1):??, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002860>.

Anonymous:2007:ICCb

- [Ano07v] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 225(2):??, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002987>.

Anonymous:2007:ICCc

- [Ano07w] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 226(2):??, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700407X>.

Anonymous:2007:ICCd

- [Ano07x] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(1):??, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700455X>.

Anonymous:2007:ICCe

- [Ano07y] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(2):??, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004913>.

Anonymous:2007:IA

- [Ano07z] Anonymous. Instructions to authors. *Journal of Computational Physics*, 221(1):??, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005250>.

Anonymous:2007:OICa

- [Ano07-27] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 225(1):??, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002872>.

Anonymous:2007:OICb

- [Ano07-28] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 225(2):??, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002999>.

Anonymous:2007:OICc

- [Ano07-29] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 226(2):??, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004081>.

Anonymous:2007:OICd

- [Ano07-30] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(1):??, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004561>.

Anonymous:2007:OICe

- [Ano07-31] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(2):??, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004925>.

Anonymous:2007:PN

- [Ano07-32] Anonymous. Publisher's note. *Journal of Computational Physics*, 224(2):??, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001957>.

Anonymous:2007:VAIa

- [Ano07-33] Anonymous. Volume author index. *Journal of Computational Physics*, 220(2):975–976, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005158>.

Anonymous:2007:VAIb

- [Ano07-34] Anonymous. Volume author index. *Journal of Computational Physics*, 221(2):854–855, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600533X>.

Anonymous:2008:EBa

- [Ano08a] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(4):??, February 1, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800003X>.

Anonymous:2008:EBb

- [Ano08b] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(5):??, February 20, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000260>.

Anonymous:2008:EBc

- [Ano08c] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(6):??, March 1, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000624>.

Anonymous:2008:EBd

- [Ano08d] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(7):??, March 20, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000880>.

Anonymous:2008:EBe

- [Ano08e] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(8):??, April 1, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001289>.

Anonymous:2008:EBf

- [Ano08f] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(9):??, April 20, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001459>.

Anonymous:2008:EBg

- [Ano08g] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(10):??, May 1, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800185X>.

Anonymous:2008:EBh

- [Ano08h] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(11):??, May 10, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002131>.

Anonymous:2008:EBi

- [Ano08i] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(12):??, June 1, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002337>.

Anonymous:2008:EBj

- [Ano08j] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(14):??, July 1, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002982>.

Anonymous:2008:EBk

- [Ano08k] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(15):??, July 20, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003197>.

Anonymous:2008:EBl

- [Ano08l] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(16):??, August 10, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003501>.

Anonymous:2008:EBm

- [Ano08m] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(17):??, September 1, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003768>.

Anonymous:2008:EBn

- [Ano08n] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(18):??, September 10, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003860>.

Anonymous:2008:EBo

- [Ano08o] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(19):??, October 1, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004130>.

Anonymous:2008:EBp

- [Ano08p] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(20):??, October 20, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800435X>.

Anonymous:2008:EBq

- [Ano08q] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(21):??, November 10, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004610>.

Anonymous:2008:EBr

- [Ano08r] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(22):??, November 20, 2008. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004853>.

Anonymous:2008:EBs

- [Ano08s] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(23):??, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005147>.

Anonymous:2008:EBt

- [Ano08t] Anonymous. Editorial Board. *Journal of Computational Physics*, 227(24):??, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005482>.

Anonymous:2008:ICCa

- [Ano08u] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(10):??, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001885>.

Anonymous:2008:ICCb

- [Ano08v] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(11):??, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002167>.

Anonymous:2008:ICCc

- [Ano08w] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(12):??, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002362>.

Anonymous:2008:ICCd

- [Ano08x] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(13):??, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002763>.

Anonymous:2008:ICCe

- [Ano08y] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(14):??, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800301X>.

Anonymous:2008:ICCF

- [Ano08z] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(15):??, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003227>.

Anonymous:2008:ICCG

- [Ano08-27] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(16):??, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003537>.

Anonymous:2008:ICCh

- [Ano08-28] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(19):??, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004166>.

Anonymous:2008:ICCi

- [Ano08-29] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(20):??, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004385>.

Anonymous:2008:ICCj

- [Ano08-30] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(21):??, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004646>.

Anonymous:2008:ICCK

- [Ano08-31] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(22):??, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004889>.

Anonymous:2008:ICCI

- [Ano08-32] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(23):??, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005172>.

Anonymous:2008:ICCm

- [Ano08-33] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 227(24):??, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005512>.

Anonymous:2008:OC

- [Ano08-34] Anonymous. OBC (contents). *Journal of Computational Physics*, 227(5):??, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000302>.

Anonymous:2008:OICa

- [Ano08-35] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(10):??, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001897>.

Anonymous:2008:OICb

- [Ano08-36] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(11):??, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002179>.

Anonymous:2008:OICc

- [Ano08-37] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(12):??, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002374>.

Anonymous:2008:OICd

- [Ano08-38] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(13):??, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002775>.

Anonymous:2008:OICe

- [Ano08-39] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(14):??, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003021>.

Anonymous:2008:OICf

- [Ano08-40] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(15):??, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003239>.

Anonymous:2008:OICg

- [Ano08-41] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(16):??, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003549>.

Anonymous:2008:OICh

- [Ano08-42] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(17):??, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800380X>.

Anonymous:2008:OICi

- [Ano08-43] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(18):??, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003902>.

Anonymous:2008:OICj

- [Ano08-44] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(19):??, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004178>.

Anonymous:2008:OICk

- [Ano08-45] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(20):??, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004397>.

Anonymous:2008:OICl

- [Ano08-46] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(21):??, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004658>.

Anonymous:2008:OICm

- [Ano08-47] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(22):??, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004890>.

Anonymous:2008:OICn

- [Ano08-48] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(23):??, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005184>.

Anonymous:2008:OICo

- [Ano08-49] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 227(24):??, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005524>.

Anonymous:2008:OFT

- [Ano08-50] Anonymous. Ocean forecasting in terrain-following coordinates: Formulation and skill assessment of the regional ocean modeling system. *Journal of Computational Physics*, 227(7):3595–3624, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002549>. See correction and commentary [SM09b].

Anonymous:2008:PN

- [Ano08-51] Anonymous. Publisher’s note. *Journal of Computational Physics*, 227(12):5937–5938, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002416>.

Anonymous:2009:EBa

- [Ano09a] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(1):??, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005767>.

Anonymous:2009:EBb

- [Ano09b] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(2):??, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005998>.

Anonymous:2009:EBc

- [Ano09c] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(3):??, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999108006414>.

Anonymous:2009:EBd

- [Ano09d] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(4):??, March 1, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006657>.

Anonymous:2009:EBe

- [Ano09e] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(5):??, March 20, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000175>.

Anonymous:2009:EBf

- [Ano09f] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(6):??, April 1, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000461>.

Anonymous:2009:EBg

- [Ano09g] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(7):??, April 20, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000722>.

Anonymous:2009:EBh

- [Ano09h] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(8):??, May 1, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000990>.

Anonymous:2009:EBi

- [Ano09i] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(9):??, May 20, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999109001193>.

Anonymous:2009:EBj

- [Ano09j] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(10):??, June 1, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900148X>.

Anonymous:2009:EBk

- [Ano09k] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(11):??, June 20, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001752>.

Anonymous:2009:EBl

- [Ano09l] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(12):??, July 1, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002186>.

Anonymous:2009:EBm

- [Ano09m] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(13):??, July 20, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002484>.

Anonymous:2009:EBn

- [Ano09n] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(14):??, August 1, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002939>.

Anonymous:2009:EBo

- [Ano09o] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(15):??, August 20, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999109003015>.

Anonymous:2009:EBp

- [Ano09p] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(16):??, September 1, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003507>.

Anonymous:2009:EBq

- [Ano09q] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(17):??, September 20, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003714>.

Anonymous:2009:EBr

- [Ano09r] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(18):??, October 1, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003982>.

Anonymous:2009:EBs

- [Ano09s] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(19):??, October 20, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004264>.

Anonymous:2009:EBt

- [Ano09t] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(20):??, November 1, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004501>.

Anonymous:2009:EBu

- [Ano09u] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(21):??, November 20, 2009. CODEN JCT-PAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999109004781>.

Anonymous:2009:EBv

- [Ano09v] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(22):??, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005038>.

Anonymous:2009:EBw

- [Ano09w] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(23):??, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005385>.

Anonymous:2009:EBx

- [Ano09x] Anonymous. Editorial Board. *Journal of Computational Physics*, 228(24):??, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005658>.

Anonymous:2009:ICCa

- [Ano09y] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(1):??, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005792>.

Anonymous:2009:ICCb

- [Ano09z] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(2):??, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006025>.

Anonymous:2009:ICCc

- [Ano09-27] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(3):??, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800644X>.

Anonymous:2009:ICCd

- [Ano09-28] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(4):??, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006682>.

Anonymous:2009:ICCe

- [Ano09-29] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(5):??, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000205>.

Anonymous:2009:IC Cf

- [Ano09-30] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(6):??, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000497>.

Anonymous:2009:IC Cg

- [Ano09-31] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(7):??, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000758>.

Anonymous:2009:IC Ch

- [Ano09-32] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(8):??, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001028>.

Anonymous:2009:IC Ci

- [Ano09-33] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(9):??, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999109001223>.

Anonymous:2009:ICCj

- [Ano09-34] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(10):??, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900151X>.

Anonymous:2009:ICCK

- [Ano09-35] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(11):??, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001788>.

Anonymous:2009:ICCl

- [Ano09-36] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(12):??, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002216>.

Anonymous:2009:ICCM

- [Ano09-37] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(13):??, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002514>.

Anonymous:2009:ICCN

- [Ano09-38] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(14):??, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002964>.

Anonymous:2009:ICCo

- [Ano09-39] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(15):??, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003040>.

Anonymous:2009:ICCP

- [Ano09-40] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(16):??, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003532>.

Anonymous:2009:ICCq

- [Ano09-41] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(17):??, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900374X>.

Anonymous:2009:ICCr

- [Ano09-42] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(18):??, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900401X>.

Anonymous:2009:ICCs

- [Ano09-43] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(19):??, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004318>.

Anonymous:2009:ICCT

- [Ano09-44] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(20):??, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004537>.

Anonymous:2009:ICCu

- [Ano09-45] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(21):??, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004811>.

Anonymous:2009:ICCv

- [Ano09-46] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(22):??, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005063>.

Anonymous:2009:ICCw

- [Ano09-47] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(23):??, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005415>.

Anonymous:2009:ICCx

- [Ano09-48] Anonymous. IBC (contents continued). *Journal of Computational Physics*, 228(24):??, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005683>.

Anonymous:2009:OICa

- [Ano09-49] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(1):??, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005809>.

Anonymous:2009:OICb

- [Ano09-50] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(2):??, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006037>.

Anonymous:2009:OICc

- [Ano09-51] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(3):??, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006451>.

Anonymous:2009:OICd

- [Ano09-52] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(4):??, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006694>.

Anonymous:2009:OICe

- [Ano09-53] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(5):??, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000217>.

Anonymous:2009:OICf

- [Ano09-54] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(6):??, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000503>.

Anonymous:2009:OICg

- [Ano09-55] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(7):??, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900076X>.

Anonymous:2009:OICh

- [Ano09-56] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(8):??, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900103X>.

Anonymous:2009:OICi

- [Ano09-57] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(9):??, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999109001235>.

Anonymous:2009:OICj

- [Ano09-58] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(10):??, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001521>.

Anonymous:2009:OICk

- [Ano09-59] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(11):??, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900179X>.

Anonymous:2009:OICl

- [Ano09-60] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(12):??, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002228>.

Anonymous:2009:OICm

- [Ano09-61] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(13):??, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002526>.

Anonymous:2009:OICn

- [Ano09-62] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(14):??, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002976>.

Anonymous:2009:OICo

- [Ano09-63] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(15):??, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003052>.

Anonymous:2009:OICp

- [Ano09-64] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(16):??, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003544>.

Anonymous:2009:OICq

- [Ano09-65] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(17):??, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003751>.

Anonymous:2009:OICr

- [Ano09-66] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(18):??, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004021>.

Anonymous:2009:OICs

- [Ano09-67] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(19):??, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900432X>.

Anonymous:2009:OICt

- [Ano09-68] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(20):??, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004549>.

Anonymous:2009:OICu

- [Ano09-69] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(21):??, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004823>.

Anonymous:2009:OICv

- [Ano09-70] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(22):??, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005075>.

Anonymous:2009:OICw

- [Ano09-71] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(23):??, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005427>.

Anonymous:2009:OICx

- [Ano09-72] Anonymous. OBC (issue contents). *Journal of Computational Physics*, 228(24):??, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005695>.

Auteri:2002:MBS

- [AP02] F. Auteri and N. Parolini. A mixed-basis spectral projection method. *Journal of Computational Physics*, 175(1):1–23, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196855X>.

Aguayo:2007:NPP

- [APP⁺07] J. P. Aguayo, P. M. Phillips, T. N. Phillips, H. R. Tamaddon-Jahromi, B. A. Snigerev, and M. F. Webster. The numerical prediction of planar viscoelastic contraction flows using the pom-pom model and higher-order finite volume schemes. *Journal of Computational Physics*, 220(2):586–611, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002518>.

Auteri:2002:NIS

- [APQ02] F. Auteri, N. Parolini, and L. Quartapelle. Numerical investigation on the stability of singular driven cavity flow. *Journal of Computational Physics*, 183(1):1–25, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971457>.

Auteri:2003:EIN

- [APQ03] F. Auteri, N. Parolini, and L. Quartapelle. Essential imposition of Neumann condition in Galerkin–Legendre elliptic solvers. *Journal of Computational Physics*, 185(2):427–444, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000645>.

Ahmad:2009:FIS

- [APR09] Sk. Safique Ahmad, Nigam Chandra Parida, and Soumyendu Raha. The fully implicit stochastic- α method for stiff stochastic differential equations. *Journal of Computational Physics*, 228(22):8263–8282, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004380>.

Airaksinen:2009:DPT

- [APT09] Tuomas Airaksinen, Anssi Pennanen, and Jari Toivanen. A damping preconditioner for time-harmonic wave equations in fluid and elastic material. *Journal of Computational Physics*, 228(5):1466–1479, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005688>.

Aboubacar:2004:HOF

- [APTJ⁺04] M. Aboubacar, T. N. Phillips, H. R. Tamaddon-Jahromi, B. A. Snigerev, and M. F. Webster. High-order finite volume methods for viscoelastic flow problems. *Journal of Computational Physics*, 199(1):16–40, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000634>.

Auteri:2000:GLS

- [AQ00] F. Auteri and L. Quartapelle. Galerkin–Legendre spectral method for the 3D Helmholtz equation. *Journal of Computational Physics*, 161(2):454–483, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965045>.

Auteri:2007:SSS

- [AQ07] F. Auteri and L. Quartapelle. Spectral solvers for spherical elliptic problems. *Journal of Computational Physics*, 227(1):36–54, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003087>.

Auteri:2009:NSS

- [AQ09] F. Auteri and L. Quartapelle. Navier–Stokes spectral solver in a sphere. *Journal of Computational Physics*, 228(19):7197–7214, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003416>.

Auteri:2002:ASS

- [AQV02] F. Auteri, L. Quartapelle, and L. Vigeveno. Accurate ω – ψ spectral solution of the singular driven cavity problem. *Journal of Computational Physics*, 180(2):597–615, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971081>.

Akhmatskaya:2008:GEM

- [AR08] Elena Akhmatskaya and Sebastian Reich. GSHMC: An efficient method for molecular simulation. *Journal of Computational Physics*, 227(10):4934–4954, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000533>.

Acebron:2009:DDS

- [ARRS09] Juan A. Acebrón, Ángel Rodríguez-Rozas, and Renato Spigler. Domain decomposition solution of nonlinear two-

dimensional parabolic problems by random trees. *Journal of Computational Physics*, 228(15):5574–5591, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002307>.

Al-Rawahi:2002:NSD

- [ART02] Nabeel Al-Rawahi and Gretar Tryggvason. Numerical simulation of dendritic solidification with convection: Two-dimensional geometry. *Journal of Computational Physics*, 180(2):471–496, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970920>.

Al-Rawahi:2004:NSD

- [ART04] Nabeel Al-Rawahi and Gretar Tryggvason. Numerical simulation of dendritic solidification with convection: Three-dimensional flow. *Journal of Computational Physics*, 194(2):677–696, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005011>.

Adams:2002:SSD

- [AS02] N. A. Adams and S. Stolz. A subgrid-scale deconvolution approach for shock capturing. *Journal of Computational Physics*, 178(2):391–426, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970348>.

Abgrall:2003:DEP

- [AS03a] Rémi Abgrall and Richard Saurel. Discrete equations for physical and numerical compressible multiphase mixtures. *Journal of Computational Physics*, 186(2):361–396, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000111>.

Adalsteinsson:2003:TDM

- [AS03b] David Adalsteinsson and J. A. Sethian. Transport and diffusion of material quantities on propagating interfaces via level set methods. *Journal of Computational Physics*, 185(1):271–288, February 10, 2003. CODEN JCTPAH. ISSN

0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000578>.

Acebron:2005:FSS

- [AS05a] Juan A. Acebrón and Renato Spigler. Fast simulations of stochastic dynamical systems. *Journal of Computational Physics*, 208(1):106–115, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000860>.

Alexandrov:2005:TPL

- [AS05b] Oleg Alexandrov and Fadil Santosa. A topology-preserving level set method for shape optimization. *Journal of Computational Physics*, 204(1):121–130, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004103>.

Ahn:2007:MMI

- [AS07] Hyung Taek Ahn and Mikhail Shashkov. Multi-material interface reconstruction on generalized polyhedral meshes. *Journal of Computational Physics*, 226(2):2096–2132, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002926>.

Ahn:2009:AMF

- [AS09] Hyung Taek Ahn and Mikhail Shashkov. Adaptive moment-of-fluid method. *Journal of Computational Physics*, 228(8):2792–2821, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006578>.

Aslam:2001:LSA

- [Asl01] Tariq D. Aslam. A level-set algorithm for tracking discontinuities in hyperbolic conservation laws: I. Scalar equations. *Journal of Computational Physics*, 167(2):413–438, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966865>.

Aslam:2004:PDE

- [Asl04a] Tariq D. Aslam. A partial differential equation approach to multidimensional extrapolation. *Journal of Computational Physics*, 193(1):349–355, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004170>.

Aslan:2004:VFS

- [Asl04b] Necdet Aslan. A visual fluctuation splitting scheme for magnetohydrodynamics with a new sonic fix and Euler limit. *Journal of Computational Physics*, 197(1):1–27, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006168>.

Alimi:2003:SPH

- [ASPB03] J.-M Alimi, A. Serna, C. Pastor, and G. Bernabeu. Smooth particle hydrodynamics: importance of correction terms in adaptive resolution algorithms. *Journal of Computational Physics*, 192(1):157–174, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003516>.

Amundson:2006:SAM

- [ASQR06] J. Amundson, P. Spentzouris, J. Qiang, and R. Ryne. Synergia: An accelerator modeling tool with 3-D space charge. *Journal of Computational Physics*, 211(1):229–248, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002718>.

Achdou:2007:TBC

- [AST07] Yves Achdou, Christophe Sabot, and Nicoletta Tchou. Transparent boundary conditions for the Helmholtz equation in some ramified domains with a fractal boundary. *Journal of Computational Physics*, 220(2):712–739, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002567>.

Arndt:2009:EAD

- [AST09] M. Arndt, V. Sorkin, and E. B. Tadmor. Efficient algorithms for discrete lattice calculations. *Journal of Computational Physics*, 228(13):4858–4880, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001703>.

Arminjon:2005:CFV

- [AT05a] P. Arminjon and R. Touma. Central finite volume methods with constrained transport divergence treatment for ideal MHD. *Journal of Computational Physics*, 204(2):737–759, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400436X>.

Azarenok:2005:SOG

- [AT05b] Boris N. Azarenok and Tao Tang. Second-order Godunov-type scheme for reactive flow calculations on moving meshes. *Journal of Computational Physics*, 206(1):48–80, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004930>.

Artebrant:2008:IAL

- [AT08] Robert Artebrant and Manuel Torrilhon. Increasing the accuracy in locally divergence-preserving finite volume schemes for MHD. *Journal of Computational Physics*, 227(6):3405–3427, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005554>.

Arico:2009:MFF

- [AT09] Costanza Aricò and Tullio Tucciarelli. The MAST FV/FE scheme for the simulation of two-dimensional thermohaline processes in variable-density saturated porous media. *Journal of Computational Physics*, 228(4):1234–1274, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005457>.

Atassi:2004:NBC

- [Ata04] Oliver V. Atassi. Nonreflecting boundary conditions for the time-dependent convective wave equation in a duct. *Journal of Computational Physics*, 197(2):737–758, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000555>.

Akaiwa:2001:LSS

- [ATV01] Norio Akaiwa, K. Thornton, and P. W. Voorhees. Large-scale simulations of microstructural evolution in elastically stressed solids. *Journal of Computational Physics*, 173(1):61–86, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968421>.

Arber:2002:CCE

- [AV02] T. D. Arber and R. G. L. Vann. A critical comparison of Eulerian-grid-based Vlasov solvers. *Journal of Computational Physics*, 180(1):339–357, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970981>.

Ammari:2003:COT

- [AV03] Habib Ammari and Darko Volkov. Correction of order three for the expansion of two dimensional electromagnetic fields perturbed by the presence of inhomogeneities of small diameter. *Journal of Computational Physics*, 189(2):371–389, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002249>.

Abide:2005:CFO

- [AV05] Stéphane Abide and Stéphane Viazzo. A 2D compact fourth-order projection decomposition method. *Journal of Computational Physics*, 206(1):252–276, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005121>.

Abubakar:2004:IFI

- [AvdB04] Aria Abubakar and Peter M. van den Berg. Iterative forward and inverse algorithms based on domain integral equations for three-dimensional electric and magnetic objects. *Journal of Computational Physics*, 195(1):236–262, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300531X>.

Andrianov:2004:RPB

- [AW04] Nikolai Andrianov and Gerald Warnecke. The Riemann problem for the Baer–Nunziato two-phase flow model. *Journal of Computational Physics*, 195(2):434–464, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005370>.

Altenhoff:2007:SBF

- [AWK07] Adrian M. Altenhoff, Jens H. Walther, and Petros Koumoutsakos. A stochastic boundary forcing for dissipative particle dynamics. *Journal of Computational Physics*, 225(1):1125–1136, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000320>.

Ashcroft:2003:OPC

- [AZ03] Graham Ashcroft and Xin Zhang. Optimized prefactored compact schemes. *Journal of Computational Physics*, 190(2):459–477, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002936>.

Asokan:2005:USA

- [AZ05] Badrinarayanan Velamur Asokan and Nicholas Zabaras. Using stochastic analysis to capture unstable equilibrium in natural convection. *Journal of Computational Physics*, 208(1):134–153, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000884>.

Asokan:2006:SVM

- [AZ06] Badrinarayanan Velamur Asokan and Nicholas Zabaras. A stochastic variational multiscale method for diffusion in heterogeneous random media. *Journal of Computational Physics*, 218(2):654–676, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001252>.

Azarenok:2006:VHG

- [Aza06] Boris N. Azarenok. A variational hexahedral grid generator with control metric. *Journal of Computational Physics*, 218(2):720–747, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001288>.

Azarenok:2007:MCA

- [Aza07] Boris N. Azarenok. A method of constructing adaptive hexahedral moving grids. *Journal of Computational Physics*, 226(1):1102–1121, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002239>. See comment [Aza09].

Azarenok:2009:CPB

- [Aza09] Boris Azarenok. Comment on the paper by B. N. Azarenok, “A method of constructing adaptive hexahedral moving grids” 226 (2007), pp. 1102–1121. *Journal of Computational Physics*, 228(13):4961, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001375>. See [Aza07].

Afkhami:2009:MDM

- [AZB09] S. Afkhami, S. Zaleski, and M. Bussmann. A mesh-dependent model for applying dynamic contact angles to VOF simulations. *Journal of Computational Physics*, 228(15):5370–5389, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002083>.

Anderson:2005:AUV

- [AZC05] Anthony Anderson, Xiaoming Zheng, and Vittorio Cristini. Adaptive unstructured volume remeshing — I: The method. *Journal of Computational Physics*, 208(2):616–625, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001221>.

Azmy:2002:USR

- [Azm02] Y. Y. Azmy. Unconditionally stable and robust adjacent-cell diffusive preconditioning of weighted-difference particle transport methods is impossible. *Journal of Computational Physics*, 182(1):213–233, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971627>.

Berthet:2003:NBC

- [BA03] R. Berthet and D. Astruc. Numerical boundary conditions for sound scattering simulation. *Journal of Computational Physics*, 190(1):64–99, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002547>.

Ben-Artzi:2005:PCS

- [BACFT05] Matania Ben-Artzi, Jean-Pierre Croisille, Dalia Fishelov, and Shlomo Trachtenberg. A pure-compact scheme for the stream-function formulation of Navier–Stokes equations. *Journal of Computational Physics*, 205(2):640–664, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004851>.

Becciani:2000:MPT

- [BADG00] U. Becciani, V. Antonuccio-Delogu, and M. Gambera. A modified parallel tree code for N -body simulation of the large-scale structure of the universe. *Journal of Computational Physics*, 163(1):118–132, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965574>.

Baeurle:2003:CWA

- [Bae03] S. A. Baeurle. Computation within the auxiliary field approach. *Journal of Computational Physics*, 184(2):540–558, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000360>.

Ben-Artzi:2009:HCL

- [BAFL09] Matania Ben-Artzi, Joseph Falcovitz, and Philippe G. LeFloch. Hyperbolic conservation laws on the sphere. A geometry-compatible finite volume scheme. *Journal of Computational Physics*, 228(16):5650–5668, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001880>.

Balsara:2001:DFA

- [Bal01] Dinshaw S. Balsara. Divergence-free adaptive mesh refinement for magnetohydrodynamics. *Journal of Computational Physics*, 174(2):614–648, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969177>.

Bal:2002:PTT

- [Bal02] Guillaume Bal. Particle transport through scattering regions with clear layers and inclusions. *Journal of Computational Physics*, 180(2):659–685, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971111>.

Baldauf:2008:SAL

- [Bal08] Michael Baldauf. Stability analysis for linear discretisations of the advection equation with Runge–Kutta time integration. *Journal of Computational Physics*, 227(13):6638–6659, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001769>.

Balsara:2009:DFR

- [Bal09] Dinshaw S. Balsara. Divergence-free reconstruction of magnetic fields and WENO schemes for magnetohydrodynamics.

Journal of Computational Physics, 228(14):5040–5056, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001727>.

Ben-Artzi:2006:DEG

- [BALW06] Matania Ben-Artzi, Jiequan Li, and Gerald Warnecke. A direct Eulerian GRP scheme for compressible fluid flows. *Journal of Computational Physics*, 218(1):19–43, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000581>.

Balsara:2007:SCB

- [BAMD07] Dinshaw S. Balsara, Christoph Altmann, Claus-Dieter Munz, and Michael Dumbser. A sub-cell based indicator for troubled zones in RKDG schemes and a novel class of hybrid RKDG+HWENO schemes. *Journal of Computational Physics*, 226(1):586–620, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001842>.

Bardenhagen:2002:ECE

- [Bar02a] S. G. Bardenhagen. Energy conservation error in the material point method for solid mechanics. *Journal of Computational Physics*, 180(1):383–403, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971032>.

Bartello:2002:CTD

- [Bar02b] P. Bartello. A comparison of time discretization schemes for two-timescale problems in geophysical fluid dynamics. *Journal of Computational Physics*, 179(1):268–285, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970567>.

Barnett:2004:FNM

- [Bar04] Alex H. Barnett. A fast numerical method for time-resolved photon diffusion in general stratified turbid media. *Journal of Computational Physics*, 201(2):771–797, December 10,

2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002645>.

Banks:2008:SLC

- [BAR08] J. W. Banks, T. Aslam, and W. J. Rider. On sub-linear convergence for linearly degenerate waves in capturing schemes. *Journal of Computational Physics*, 227(14):6985–7002, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002088>.

Bailey:2008:PLF

- [BAYZ08] Teresa S. Bailey, Marvin L. Adams, Brian Yang, and Michael R. Zika. A piecewise linear finite element discretization of the diffusion equation for arbitrary polyhedral grids. *Journal of Computational Physics*, 227(8):3738–3757, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005050>.

Baker:2004:VBM

- [BB04a] Gregory R. Baker and J. Thomas Beale. Vortex blob methods applied to interfacial motion. *Journal of Computational Physics*, 196(1):233–258, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005953>.

Bogey:2004:FLD

- [BB04b] Christophe Bogey and Christophe Bailly. A family of low dispersive and low dissipative explicit schemes for flow and noise computations. *Journal of Computational Physics*, 194(1):194–214, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004662>.

Bellavia:2007:GSN

- [BB07a] Stefania Bellavia and Stefano Berrone. Globalization strategies for Newton–Krylov methods for stabilized FEM discretization of Navier–Stokes equations. *Journal of Computational Physics*, 226(2):2317–2340, October 1, 2007. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003178>.

Bogey:2007:AES

- [BB07b] Christophe Bogey and Christophe Bailly. On the application of explicit spatial filtering to the variables or fluxes of linear equations. *Journal of Computational Physics*, 225(2):1211–1217, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001593>.

Barnett:2008:SCM

- [BB08a] A. H. Barnett and T. Betcke. Stability and convergence of the method of fundamental solutions for Helmholtz problems on analytic domains. *Journal of Computational Physics*, 227(14):7003–7026, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002106>.

Burt:2008:LDP

- [BB08b] Jonathan M. Burt and Iain D. Boyd. A low diffusion particle method for simulating compressible inviscid flows. *Journal of Computational Physics*, 227(9):4653–4670, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000454>.

Besse:2009:GWB

- [BB09a] Nicolas Besse and Pierre Bertrand. Gyro-water-bag approach in nonlinear gyrokinetic turbulence. *Journal of Computational Physics*, 228(11):3973–3995, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000862>.

Brunner:2009:ERD

- [BB09b] Thomas A. Brunner and Patrick S. Brantley. An efficient, robust, domain-decomposition algorithm for particle Monte Carlo. *Journal of Computational Physics*, 228(10):3882–3890, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000965>.

Burt:2009:HPA

- [BB09c] Jonathan M. Burt and Iain D. Boyd. A hybrid particle approach for continuum and rarefied flow simulation. *Journal of Computational Physics*, 228(2):460–475, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005044>.

Berland:2008:SDE

- [BBB08] J. Berland, C. Bogey, and C. Bailly. A study of differentiation errors in large-eddy simulations based on the EDQNM theory. *Journal of Computational Physics*, 227(18):8314–8340, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002933>.

Bauer:2006:ICS

- [BBC⁺06] A. L. Bauer, D. E. Burton, E. J. Caramana, R. Loubère, M. J. Shashkov, and P. P. Whalen. The internal consistency, stability, and accuracy of the discrete, compatible formulation of Lagrangian hydrodynamics. *Journal of Computational Physics*, 218(2):572–593, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001203>.

Bona:2009:LHR

- [BBCT09] C. Bona, C. Bona-Casas, and J. Terradas. Linear high-resolution schemes for hyperbolic conservation laws: TVB numerical evidence. *Journal of Computational Physics*, 228(6):2266–2281, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006335>.

Barucq:2004:CLB

- [BBD04] Hélène Barucq, Chokri Bekkey, and Rabia Djellouli. Construction of local boundary conditions for an eigenvalue problem using micro-local analysis: application to optical waveguide problems. *Journal of Computational Physics*, 193(2):666–696,

January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004558>.

Baro:2005:CSD

- [BBDE05] M. Baro, N. Ben Abdallah, P. Degond, and A. El Ayyadi. A 1D coupled Schrödinger drift-diffusion model including collisions. *Journal of Computational Physics*, 203(1):129–153, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003213>.

Bell:2008:SDF

- [BBF⁺08] George I. Bell, David L. Bruhwiler, Alexei Fedotov, Andrey Sobol, Richard S. Busby, Peter Stoltz, Dan T. Abell, Peter Messmer, Ilan Ben-Zvi, and Vladimir Litvinenko. Simulating the dynamical friction force on ions due to a briefly co-propagating electron beam. *Journal of Computational Physics*, 227(19):8714–8735, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003410>.

Belien:2002:FAM

- [BBG⁺02] A. J. C. Beliën, M. A. Botchev, J. P. Goedbloed, B. van der Holst, and R. Keppens. FINESSE: Axisymmetric MHD equilibria with flow. *Journal of Computational Physics*, 182(1):91–117, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971536>.

Barlett:2009:DBF

- [BBHM09] V. Ruiz Barlett, J. J. Bigeón, M. Hoyuelos, and H. O. Martín. Differences between fixed time step and kinetic Monte Carlo methods for biased diffusion. *Journal of Computational Physics*, 228(16):5740–5748, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002332>.

Bergmann:2009:ERP

- [BBI09] M. Bergmann, C.-H. Bruneau, and A. Iollo. Enablers for robust POD models. *Journal of Computational Physics*, 228

(2):516–538, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800510X>.

Burstedde:2006:CLM

- [BBK06] Carsten Burstедde, Jürgen Braun, and Angela Kunoth. Computing light masks in neutral atom lithography. *Journal of Computational Physics*, 220(1):422–440, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600341X>.

Bronstein:2007:WDM

- [BBK07] Alexander M. Bronstein, Michael M. Bronstein, and Ron Kimmel. Weighted distance maps computation on parametric three-dimensional manifolds. *Journal of Computational Physics*, 225(1):771–784, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000034>.

Berland:2007:HOL

- [BBMB07] Julien Berland, Christophe Bogey, Olivier Marsden, and Christophe Bailly. High-order, low dispersive and low dissipative explicit schemes for multiple-scale and boundary problems. *Journal of Computational Physics*, 224(2):637–662, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005420>.

Bidegaray:2001:IPR

- [BBR01] B. Bidégaray, A. Bourgeade, and D. Reignier. Introducing physical relaxation terms in Bloch equations. *Journal of Computational Physics*, 170(2):603–613, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196752X>.

Bernsen:2006:DCF

- [BBvdV06] Erik Bernsen, Onno Bokhove, and Jaap J. W. van der Vegt. A (dis)continuous finite element model for generalized 2D vorticity dynamics. *Journal of Computational Physics*, 211(2):719–747, January 20, 2006. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002949>.

Bhattacharya:2006:FFA

- [BBW06] S. Bhattacharya, J. Bławdziewicz, and E. Wajnryb. Far-field approximation for hydrodynamic interactions in parallel-wall geometry. *Journal of Computational Physics*, 212(2):718–738, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003530>.

Barros:2001:NGM

- [BC01] Saulo R. M. Barros and José W. Cárdenas. A non-linear Galerkin method for the shallow-water equations on periodic domains. *Journal of Computational Physics*, 172(2):592–608, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968433>.

Balls:2002:FDD

- [BC02a] Gregory T. Balls and Phillip Colella. A finite difference domain decomposition method using local corrections for the solution of Poisson’s equation. *Journal of Computational Physics*, 180(1):25–53, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970683>.

Buet:2002:NAI

- [BC02b] C. Buet and S. Cordier. Numerical analysis of the isotropic Fokker–Planck–Landau equation. *Journal of Computational Physics*, 179(1):43–67, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970439>.

Barad:2005:FOA

- [BC05] Michael Barad and Phillip Colella. A fourth-order accurate local refinement method for Poisson’s equation. *Journal of Computational Physics*, 209(1):1–18, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001129>.

Bergmann:2008:OCC

- [BC08] M. Bergmann and L. Cordier. Optimal control of the cylinder wake in the laminar regime by trust-region methods and POD reduced-order models. *Journal of Computational Physics*, 227(16):7813–7840, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002659>.

Badalassi:2003:CMS

- [BCB03] V. E. Badalassi, H. D. Cenicerros, and S. Banerjee. Computation of multiphase systems with phase field models. *Journal of Computational Physics*, 190(2):371–397, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002808>.

Borges:2008:IWE

- [BCCD08] Rafael Borges, Monique Carmona, Bruno Costa, and Wai Sun Don. An improved weighted essentially non-oscillatory scheme for hyperbolic conservation laws. *Journal of Computational Physics*, 227(6):3191–3211, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005232>.

BenAbdallah:2009:DSH

- [BCCV09] N. Ben Abdallah, M. J. Cáceres, J. A. Carrillo, and F. Vecil. A deterministic solver for a hybrid quantum-classical transport model in nano-MOSFETs. *Journal of Computational Physics*, 228(17):6553–6571, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003180>.

Bassi:2006:ACF

- [BCDR06] F. Bassi, A. Crivellini, D. A. Di Pietro, and S. Rebay. An artificial compressibility flux for the discontinuous Galerkin solution of the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 218(2):794–815, November 1,

2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001331>.

Barchanski:2006:ECC

- [BCDW06] Andreas Barchanski, Markus Clemens, Herbert De Gersm, and Thomas Weiland. Efficient calculation of current densities in the human body induced by arbitrarily shaped, low-frequency magnetic field sources. *Journal of Computational Physics*, 214(1):81–95, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004249>.

Bendito:2009:CCF

- [BCE⁺09] E. Bendito, A. Carmona, A. M. Encinas, J. M. Gesto, A. Gómez, C. Mouriño, and M. T. Sánchez. Computational cost of the Fekete problem I: The forces method on the 2-sphere. *Journal of Computational Physics*, 228(9):3288–3306, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000357>.

Bendito:2007:EFP

- [BCEG07] E. Bendito, A. Carmona, A. M. Encinas, and J. M. Gesto. Estimation of Fekete points. *Journal of Computational Physics*, 225(2):2354–2376, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001362>.

Belaouar:2009:NCL

- [BCG09] R. Belaouar, T. Colin, and G. Gallice. Numerical coupling of Landau damping and Raman amplification. *Journal of Computational Physics*, 228(2):387–405, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004968>.

Budd:2005:PCC

- [BCGR05] C. J. Budd, R. Carretero-González, and R. D. Russell. Precise computations of chemotactic collapse using moving mesh methods. *Journal of Computational Physics*, 202(2):463–487,

January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002943>.

Barrault:2007:MDD

- [BCHL07] M. Barrault, E. Cancès, W. W. Hager, and C. Le Bris. Multilevel domain decomposition for electronic structure calculations. *Journal of Computational Physics*, 222(1):86–109, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003184>.

Buffoni:2008:NLO

- [BCI⁺08] M. Buffoni, S. Camarri, A. Iollo, E. Lombardi, and M. V. Salvetti. A non-linear observer for unsteady three-dimensional flows. *Journal of Computational Physics*, 227(4):2626–2643, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004858>.

Bayati:2009:DLA

- [BCK09] Basil Bayati, Philippe Chatelain, and Petros Koumoutsakos. D-leaping: Accelerating stochastic simulation algorithms for reactions with delays. *Journal of Computational Physics*, 228(16):5908–5916, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002435>.

Bao:2006:ESAb

- [BCL06] Weizhu Bao, I-Liang Chern, and Fong Yin Lim. Efficient and spectrally accurate numerical methods for computing ground and first excited states in Bose–Einstein condensates. *Journal of Computational Physics*, 219(2):836–854, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600218X>.

Brown:2001:APM

- [BCM01] David L. Brown, Ricardo Cortez, and Michael L. Minion. Accurate projection methods for the incompressible Navier–Stokes equations. *Journal of Computational*

Physics, 168(2):464–499, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967154>.

Bottauscio:2007:MAA

- [BCM⁺07] Oriano Bottauscio, Mario Chiampi, Alessandra Manzin, Paolo Emilio Roccatto, and Mauro Zucca. A multi-scale approach to the analysis of magnetic grid shields and its validation. *Journal of Computational Physics*, 227(2):1470–1482, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004172>.

Blasco:2009:FDP

- [BCM09] Jordi Blasco, M. Carmen Calzada, and Mercedes Marín. A fictitious domain, parallel numerical method for rigid particulate flows. *Journal of Computational Physics*, 228(20):7596–7613, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003817>.

Burchard:2001:MCT

- [BCMO01] Paul Burchard, Li-Tien Cheng, Barry Merriman, and Stanley Osher. Motion of curves in three spatial dimensions using a level set approach. *Journal of Computational Physics*, 170(2):720–741, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967580>.

Bertalmio:2001:VPP

- [BCOS01] Marcelo Bertalmío, Li-Tien Cheng, Stanley Osher, and Guillermo Sapiro. Variational problems and partial differential equations on implicit surfaces. *Journal of Computational Physics*, 174(2):759–780, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969372>.

Benamou:2004:NMA

- [BCR04] Jean-David Benamou, Francis Collino, and Olof Runborg. Numerical microlocal analysis of harmonic wavefields. *Journal of Computational Physics*, 199(2):717–741, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001135>.

Bijl:2002:ITI

- [BCVK02] Hester Bijl, Mark H. Carpenter, Veer N. Vatsa, and Christopher A. Kennedy. Implicit time integration schemes for the unsteady compressible Navier–Stokes equations: Laminar flow. *Journal of Computational Physics*, 179(1):313–329, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970592>.

Bishop:2004:IBS

- [BCZ04] T. C. Bishop, R. Cortez, and O. O. Zhmudsky. Investigation of bend and shear waves in a geometrically exact elastic rod model. *Journal of Computational Physics*, 193(2):642–665, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004388>.

Borges:2001:FPA

- [BD01] Leonardo Borges and Prabir Daripa. A fast parallel algorithm for the Poisson equation on a disk. *Journal of Computational Physics*, 169(1):151–192, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967208>.

Buet:2006:APP

- [BD06] Christophe Buet and Bruno Despres. Asymptotic preserving and positive schemes for radiation hydrodynamics. *Journal of Computational Physics*, 215(2):717–740, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005127>.

Blossey:2008:SMP

- [BD08] Peter N. Blossey and Dale R. Durran. Selective monotonicity preservation in scalar advection. *Journal of Computational Physics*, 227(10):5160–5183, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000715>.

Bogey:2009:SCM

- [BdCB09] Christophe Bogey, Nicolas de Cacqueray, and Christophe Bailly. A shock-capturing methodology based on adaptive spatial filtering for high-order non-linear computations. *Journal of Computational Physics*, 228(5):1447–1465, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005676>.

Boudesocque-Dubois:2003:SCM

- [BDCG03] Carine Boudesocque-Dubois, Jean-Marie Clarisse, and Serge Gauthier. A spectral Chebyshev method for linear stability analysis of one-dimensional exact solutions of gas dynamics. *Journal of Computational Physics*, 184(2):592–618, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000396>.

Bell:2005:SAA

- [BDGL05] J. B. Bell, M. S. Day, J. F. Graciar, and M. J. Lijewski. Stochastic algorithms for the analysis of numerical flame simulations. *Journal of Computational Physics*, 202(1):262–280, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002761>.

Bassi:2009:DGM

- [BDHN09] F. Bassi, C. De Bartolo, R. Hartmann, and A. Nigro. A discontinuous Galerkin method for inviscid low Mach number flows. *Journal of Computational Physics*, 228(11):3996–4011, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000886>.

Bouzidi:2001:LBE

- [BdLL01] M'hamed Bouzidi, Dominique d'Humières, Pierre Lallemand, and Li-Shi Luo. Lattice Boltzmann equation on a two-dimensional rectangular grid. *Journal of Computational Physics*, 172(2):704–717, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968500>.

Bell:2004:ALM

- [BDR⁺04] J. B. Bell, M. S. Day, C. A. Rendleman, S. E. Woosley, and M. A. Zingale. Adaptive low Mach number simulations of nuclear flame microphysics. *Journal of Computational Physics*, 195(2):677–694, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005783>.

Barton:2009:EAS

- [BDRT09] P. T. Barton, D. Drikakis, E. Romenski, and V. A. Titarev. Exact and approximate solutions of Riemann problems in non-linear elasticity. *Journal of Computational Physics*, 228(18):7046–7068, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003386>.

Bowers:2007:ZMP

- [BDS07] Kevin J. Bowers, Ron O. Dror, and David E. Shaw. Zonal methods for the parallel execution of range-limited N -body simulations. *Journal of Computational Physics*, 221(1):303–329, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002919>.

Burton:2002:AFS

- [BE02] Tristan M. Burton and John K. Eaton. Analysis of a fractional-step method on overset grids. *Journal of Computational Physics*, 177(2):336–364, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970129>.

Beale:2008:PDD

- [Bea08] J. Thomas Beale. A proof that a discrete delta function is second-order accurate. *Journal of Computational Physics*, 227(4):2195–2197, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004974>.

Böttger:2009:PFS

- [BEA09] B. Böttger, J. Eiken, and M. Apel. Phase-field simulation of microstructure formation in technical castings — a self-consistent homoenthalpic approach to the micro-macro problem. *Journal of Computational Physics*, 228(18):6784–6795, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003210>.

Babadi:2006:AFD

- [BEE06] M. Babadi, M. R. Ejtehadi, and R. Everaers. Analytical first derivatives of the RE-squared interaction potential. *Journal of Computational Physics*, 219(2):770–779, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002130>.

Burman:2003:AFE

- [BEG03] Erik Burman, Alexandre Ern, and Vincent Giovangigli. An adaptive finite element method with crosswind diffusion for low Mach, steady, laminar combustion. *Journal of Computational Physics*, 188(2):472–492, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001888>.

Benzi:2002:PTL

- [Ben02] Michele Benzi. Preconditioning techniques for large linear systems: a survey. *Journal of Computational Physics*, 182(2):418–477, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971767>. ■

Bruno:2009:EIE

- [BEPT09] Oscar Bruno, Tim Elling, Randy Paffenroth, and Catalin Turc. Electromagnetic integral equations requiring small numbers of Krylov-subspace iterations. *Journal of Computational Physics*, 228(17):6169–6183, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900268X>.

Berthelsen:2004:DII

- [Ber04] Petter Andreas Berthelsen. A decomposed immersed interface method for variable coefficient elliptic equations with non-smooth and discontinuous solutions. *Journal of Computational Physics*, 197(1):364–386, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006442>.

Berry:2006:NPM

- [Ber06a] Ray A. Berry. Notes on the PCICE method: Simplification, generalization, and compressibility properties. *Journal of Computational Physics*, 215(1):6–11, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005024>.

Berthon:2006:RMS

- [Ber06b] Christophe Berthon. Robustness of MUSCL schemes for 2D unstructured meshes. *Journal of Computational Physics*, 218(2):495–509, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001161>.

Berenger:2007:HAB

- [Bér07] Jean-Pierre Bérenger. On the Huygens absorbing boundary conditions for electromagnetics. *Journal of Computational Physics*, 226(1):354–378, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001611>.

Benkhaldoun:2007:WBF

- [BES07] Fayssal Benkhaldoun, Imad Elmahi, and Mohammed Seaid. Well-balanced finite volume schemes for pollutant transport by shallow water equations on unstructured meshes. *Journal of Computational Physics*, 226(1):180–203, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001490>.

Bettencourt:2008:FLE

- [Bet08] M. T. Bettencourt. Flux limiting embedded boundary technique for electromagnetic FDTD. *Journal of Computational Physics*, 227(6):3141–3158, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005128>.

Beyer:2009:SSE

- [Bey09] Florian Beyer. A spectral solver for evolution problems with spatial S^3 -topology. *Journal of Computational Physics*, 228(17):6496–6513, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003131>.

Birman:2007:AGS

- [BF07] A. Birman and J. Falcovitz. Application of the GRP scheme to open channel flow equations. *Journal of Computational Physics*, 222(1):131–154, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003470>.

Berthelsen:2008:LDG

- [BF08] Petter A. Berthelsen and Odd M. Faltinsen. A local directional ghost cell approach for incompressible viscous flow problems with irregular boundaries. *Journal of Computational Physics*, 227(9):4354–4397, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000144>.

Bakosi:2008:NHM

- [BFB08] J. Bakosi, P. Franzese, and Z. Boybeyi. A non-hybrid method for the PDF equations of turbulent flows on unstructured grids. *Journal of Computational Physics*, 227(11):5896–5935, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800123X>.

Belhamadia:2004:AMA

- [BFC04a] Youssef Belhamadia, André Fortin, and Éric Chamberland. Anisotropic mesh adaptation for the solution of the Stefan problem. *Journal of Computational Physics*, 194(1):233–255, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004686>.

Belhamadia:2004:TDA

- [BFC04b] Youssef Belhamadia, André Fortin, and Éric Chamberland. Three-dimensional anisotropic mesh adaptation for phase change problems. *Journal of Computational Physics*, 201(2):753–770, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002633>.

Bell:2007:ARS

- [BFG07] John B. Bell, Jasmine Foo, and Alejandro L. Garcia. Algorithm refinement for the stochastic Burgers' equation. *Journal of Computational Physics*, 223(1):451–468, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004505>.

Bergamaschi:2008:MCP

- [BFG08] Luca Bergamaschi, Massimiliano Ferronato, and Giuseppe Gambolati. Mixed constraint preconditioners for the iterative solution of FE coupled consolidation equations. *Journal of Computational Physics*, 227(23):9885–9897, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800421X>.

Becache:2003:SPM

- [BFJ03] E. Bécache, S. Fauqueux, and P. Joly. Stability of perfectly matched layers, group velocities and anisotropic waves. *Journal of Computational Physics*, 188(2):399–433, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001840>.

Baruch:2007:HON

- [BFT07] G. Baruch, G. Fibich, and S. Tsynkov. High-order numerical method for the nonlinear Helmholtz equation with material discontinuities in one space dimension. *Journal of Computational Physics*, 227(1):820–850, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003841>.

Baruch:2009:HON

- [BFT09] G. Baruch, G. Fibich, and S. Tsynkov. A high-order numerical method for the nonlinear Helmholtz equation in multidimensional layered media. *Journal of Computational Physics*, 228(10):3789–3815, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000813>.

Bokil:2005:OSS

- [BG05a] Vrushali A. Bokil and Roland Glowinski. An operator splitting scheme with a distributed Lagrange multiplier based fictitious domain method for wave propagation problems. *Journal of Computational Physics*, 205(1):242–268, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004668>.

Bustinza:2005:MLD

- [BG05b] Rommel Bustinza and Gabriel N. Gatica. A mixed local discontinuous Galerkin method for a class of nonlinear problems in fluid mechanics. *Journal of Computational Physics*, 207(2):427–456, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000367>.

Barros:2007:GFD

- [BG07] Saulo R. M. Barros and Claudia I. Garcia. A global finite-difference semi-Lagrangian model for the adiabatic primitive equations. *Journal of Computational Physics*, 226(2):1645–1667, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002550>.

Bonnet:2009:EWI

- [BG09] Marc Bonnet and Bojan B. Guzina. Elastic-wave identification of penetrable obstacles using shape-material sensitivity framework. *Journal of Computational Physics*, 228(2):294–311, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004798>.

Bruger:2005:HOA

- [BGLN05] Arnim Brüger, Bertil Gustafsson, Per Lötstedt, and Jonas Nilsson. High order accurate solution of the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 203(1):49–71, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003171>.

Bejanov:2008:GAF

- [BGM08] B. Bejanov, J. L. Guermond, and P. D. Minev. A grid-alignment finite element technique for incompressible multicomponent flows. *Journal of Computational Physics*, 227(13):6473–6489, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001563>.

Brufau:2003:UFS

- [BGN03] P. Brufau and P. García-Navarro. Unsteady free surface flow simulation over complex topography with a multidimensional upwind technique. *Journal of Computational Physics*, 186(2):503–526, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300072X>.

Barrett:2007:PFE

- [BGN07] John W. Barrett, Harald Garcke, and Robert Nürnberg. A parametric finite element method for fourth order geometric evolution equations. *Journal of Computational Physics*, 222(1):441–467, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003615>.

Barrett:2008:PFE

- [BGN08] John W. Barrett, Harald Garcke, and Robert Nürnberg. On the parametric finite element approximation of evolving hypersurfaces in \mathbf{R}^3 . *Journal of Computational Physics*, 227(9):4281–4307, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005141>.

Bedwani:2008:NAM

- [BGR08] Stéphane Bedwani, François Guibault, and Alain Rochefort. Nanoscale adaptive meshing for rapid STM imaging. *Journal of Computational Physics*, 227(14):6720–6726, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002040>.

Borazjani:2008:CIB

- [BGS08] Iman Borazjani, Liang Ge, and Fotis Sotiropoulos. Curvilinear immersed boundary method for simulating fluid structure interaction with complex 3D rigid bodies. *Journal of Computational Physics*, 227(16):7587–7620, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002490>.

Bruno:2004:EPH

- [BH04] Oscar P. Bruno and E. McKay Hyde. An efficient, preconditioned, high-order solver for scattering by two-dimensional inhomogeneous media. *Journal of Computational Physics*, 200(2):670–694, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001846>.

Brunner:2005:TDT

- [BH05] Thomas A. Brunner and James Paul Holloway. Two-dimensional time dependent Riemann solvers for neutron transport. *Journal of Computational Physics*, 210(1):386–399, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002275>.

Bernstein:2009:RRH

- [BH09] J. P. Bernstein and P. A. Hughes. Refining a relativistic, hydrodynamic solver: Admitting ultra-relativistic flows. *Journal of Computational Physics*, 228(17):6212–6230, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900271X>.

Bansch:2004:FEM

- [BHL⁺04] Eberhard Bänsch, Frank Haußer, Omar Lakkis, Bo Li, and Axel Voigt. Finite element method for epitaxial growth with attachment-detachment kinetics. *Journal of Computational Physics*, 194(2):409–434, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004893>.

Bao:2007:ISC

- [BHL07] Gang Bao, Songming Hou, and Peijun Li. Inverse scattering by a continuation method with initial guesses from a direct imaging algorithm. *Journal of Computational Physics*, 227(1):755–762, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003567>.

Bermudez:2007:OPM

- [BHNPR07] A. Bermúdez, L. Hervella-Nieto, A. Prieto, and R. Rodríguez. An optimal perfectly matched layer with unbounded absorbing function for time-harmonic acoustic scattering problems. *Journal of Computational Physics*, 223(2):469–488, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004487>.

Bruno:2007:AHO

- [BHP07] Oscar P. Bruno, Youngae Han, and Matthew M. Pohlman. Accurate, high-order representation of complex three-dimensional surfaces via Fourier continuation analysis. *Journal of Computational Physics*, 227(2):1094–1125, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003816>.

Beaudoin:2003:SAD

- [BHR03] A. Beaudoin, S. Huberson, and E. Rivoalen. Simulation of anisotropic diffusion by means of a diffusion velocity method. *Journal of Computational Physics*, 186(1):122–135, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300024X>.

Burger:2004:ITD

- [BHR04] Martin Burger, Benjamin Hackl, and Wolfgang Ring. Incorporating topological derivatives into level set methods. *Journal of Computational Physics*, 194(1):344–362, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004868>.

Beaudoin:2006:NSS

- [BHR06] Anthony Beaudoin, Serge Huberson, and Elie Rivoalen. From Navier–Stokes to Stokes by means of particle methods. *Journal of Computational Physics*, 214(1):264–283, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004341>.

Bao:2003:ODN

- [BHS03] Gang Bao, Kai Huang, and Gunther Schmidt. Optimal design of nonlinear diffraction gratings. *Journal of Computational Physics*, 184(1):106–121, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000190>.

Banks:2009:EFM

- [BHS09] J. W. Banks, W. D. Henshaw, and J. N. Shadid. An evaluation of the FCT method for high-speed flows on structured overlapping grids. *Journal of Computational Physics*, 228(15):5349–5369, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002071>.

Burger:2007:LSA

- [BHSV07] Martin Burger, Frank Hauser, Christina Stöcker, and Axel Voigt. A level set approach to anisotropic flows with curvature regularization. *Journal of Computational Physics*, 225(1):183–205, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005833>.

Botchev:2006:GTS

- [BHvdV06] M. A. Botchev, D. Harutyunyan, and J. J. W. van der Vegt. The Gautschi time stepping scheme for edge finite element discretizations of the Maxwell equations. *Journal of Computational Physics*, 216(2):654–686, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000052>.

Bialecki:2003:FSO

- [Bia03] Bernard Bialecki. A fast solver for the orthogonal spline collocation solution of the biharmonic Dirichlet problem on rectangles. *Journal of Computational Physics*, 191(2):601–621, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003425>.

Billet:2005:ICC

- [Bil05] G. Billet. Improvement of convective concentration fluxes in a one step reactive flow solver. *Journal of Computational Physics*, 204(1):319–352, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400419X>.

Berland:2007:CPS

- [BIS07] Håvard Berland, Alvaro L. Islas, and Constance M. Schober. Conservation of phase space properties using exponential integrators on the cubic Schrödinger equation. *Journal of Computational Physics*, 225(1):284–299, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005900>.

Beux:2001:ARE

- [BISS01] F. Beux, A. Iollo, M. V. Salvetti, and A. Soldati. Approximation and reconstruction of the electrostatic field in wire-plate precipitators by a low-order model. *Journal of Computational Physics*, 170(2):893–916, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967737>.

Brucker:2007:EAS

- [BIVC07] Kyle A. Brucker, Juan C. Isaza, T. Vaithianathan, and Lance R. Collins. Efficient algorithm for simulating homogeneous turbulent shear flow without remeshing. *Journal of Computational Physics*, 225(1):20–32, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004827>.

Badea:2004:DDM

- [BIW04] Lori Badea, Ioan R. Ionescu, and Sylvie Wolf. Domain decomposition method for dynamic faulting under slip-dependent friction. *Journal of Computational Physics*, 201(2):487–510, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002396>.

Badea:2008:SME

- [BIW08] Lori Badea, Ioan R. Ionescu, and Sylvie Wolf. Schwarz method for earthquake source dynamics. *Journal of Computational Physics*, 227(8):3824–3848, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005323>.

Bao:2000:RPM

- [BJ00] Weizhu Bao and Shi Jin. The random projection method for hyperbolic conservation laws with stiff reaction terms. *Journal of Computational Physics*, 163(1):216–248, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965720>.

Bao:2002:RPM

- [BJ02] Weizhu Bao and Shi Jin. The random projection method for stiff multispecies detonation capturing. *Journal of Computational Physics*, 178(1):37–57, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970166>.

Bonfigli:2009:EMS

- [BJ09] Giuseppe Bonfigli and Patrick Jenny. An efficient multiscale Poisson solver for the incompressible Navier–Stokes equations with immersed boundaries. *Journal of Computational Physics*, 228(12):4568–4587, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001569>.

Bao:2002:TSS

- [BJM02] Weizhu Bao, Shi Jin, and Peter A. Markowich. On time-splitting spectral approximations for the schrödinger equation in the semiclassical regime. *Journal of Computational Physics*, 175(2):487–524, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969566>.

Bao:2003:NSG

- [BJM03] Weizhu Bao, Dieter Jaksch, and Peter A. Markowich. Numerical solution of the Gross–Pitaevskii equation for Bose–Einstein condensation. *Journal of Computational Physics*, 187(1):318–342, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001025>.

Burman:2004:AFE

- [BJP04] E. Burman, A. Jacot, and M. Picasso. Adaptive finite elements with high aspect ratio for the computation of coalescence using a phase-field model. *Journal of Computational Physics*, 195(1):153–174, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005151>.

Bruno:2001:FHO

- [BK01] Oscar P. Bruno and Leonid A. Kunyansky. A fast, high-order algorithm for the solution of surface scattering problems: Basic implementation, tests, and applications. *Journal of Computational Physics*, 169(1):80–110, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967142>.

Burger:2007:AMW

- [BK07] Raimund Bürger and Alice Kozakevicius. Adaptive multiresolution WENO schemes for multi-species kinematic flow models. *Journal of Computational Physics*, 224(2):1190–1222, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005729>.

Bialecki:2008:SCF

- [BK08] Bernard Bialecki and Andreas Karageorghis. Spectral Chebyshev–Fourier collocation for the Helmholtz and variable coefficient equations in a disk. *Journal of Computational Physics*, 227(19):8588–8603, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003318>.

Botta:2004:WBF

- [BKLL04] N. Botta, R. Klein, S. Langenberg, and S. Lützenkirchen. Well balanced finite volume methods for nearly hydrostatic flows. *Journal of Computational Physics*, 196(2):539–565, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006077>.

Beylkin:2009:FCF

- [BKM09] Gregory Beylkin, Christopher Kurcz, and Lucas Monzón. Fast convolution with the free space Helmholtz Green's function. *Journal of Computational Physics*, 228(8):2770–2791, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006566>.

Bates:2001:CTI

- [BKR⁺01] J. W. Bates, D. A. Knoll, W. J. Rider, R. B. Lowrie, and V. A. Mousseau. On consistent time-integration methods for radiation hydrodynamics in the equilibrium diffusion limit: Low-energy-density regime. *Journal of Computational Physics*, 167(1):99–130, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966610>.

Banda:2007:LBR

- [BKS07] Mapundi K. Banda, Axel Klar, and Mohammed Seaïd. A lattice-Boltzmann relaxation scheme for coupled convection-radiation systems. *Journal of Computational Physics*, 226(2):1408–1431, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002409>.

Barone:2009:SGR

- [BKST09] Matthew F. Barone, Irina Kalashnikova, Daniel J. Segalman, and Heidi K. Thornquist. Stable Galerkin reduced order models for linearized compressible flow. *Journal of Computational Physics*, 228(6):1932–1946, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006098>.

Billet:2001:ALI

- [BL01] G. Billet and O. Louedin. Adaptive limiters for improving the accuracy of the MUSCL approach for unsteady flows. *Journal of Computational Physics*, 170(1):161–183, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967312>.

Bryson:2003:HOS

- [BL03] Steve Bryson and Doron Levy. High-order semi-discrete central-upwind schemes for multi-dimensional Hamilton–Jacobi equations. *Journal of Computational Physics*, 189 (1):63–87, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002018>.

Bao:2004:ESN

- [BL04] Weizhu Bao and Xiang-Gui Li. An efficient and stable numerical method for the Maxwell–Dirac system. *Journal of Computational Physics*, 199(2):663–687, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001111>.

Brown:2005:MEE

- [BL05] J. David Brown and Lisa L. Lowe. Multigrid elliptic equation solver with adaptive mesh refinement. *Journal of Computational Physics*, 209(2):582–598, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001890>.

Berkenbos:2008:AMI

- [BL08] A. Berkenbos and C. P. Lowe. Accurate method for including solid-fluid boundary interactions in mesoscopic model fluids. *Journal of Computational Physics*, 227(9):4589–4599, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000375>.

Bao:2009:NSI

- [BL09a] Gang Bao and Peijun Li. Numerical solution of an inverse medium scattering problem for Maxwell’s equations at fixed frequency. *Journal of Computational Physics*, 228 (12):4638–4648, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001600>.

Beale:2009:VDA

- [BL09b] J. Thomas Beale and Anita T. Layton. A velocity decomposition approach for moving interfaces in viscous fluids. *Jour-*

nal of Computational Physics, 228(9):3358–3367, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000400>.

Bhagatwala:2009:MAV

- [BL09c] Ankit Bhagatwala and Sanjiva K. Lele. A modified artificial viscosity approach for compressible turbulence simulations. *Journal of Computational Physics*, 228(14):4965–4969, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002034>.

Blayo:2000:CFD

- [Bla00] Eric Blayo. Compact finite difference schemes for ocean models: 1. ocean waves. *Journal of Computational Physics*, 164(2):241–257, November 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965653>.

Besse:2008:WMB

- [BLG⁺08] Nicolas Besse, Guillaume Latu, Alain Ghizzo, Eric Sonnendrücker, and Pierre Bertrand. A wavelet-MRA-based adaptive semi-Lagrangian method for the relativistic Vlasov–Maxwell system. *Journal of Computational Physics*, 227(16):7889–7916, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002672>.

Bond:2003:AFK

- [BLL03] Stephen D. Bond, Brian B. Laird, and Benedict J. Leimkuhler. On the approximation of Feynman–Kac path integrals. *Journal of Computational Physics*, 185(2):472–483, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000669>.

Bourlioux:2003:HOM

- [BLM03] Anne Bourlioux, Anita T. Layton, and Michael L. Minion. High-order multi-implicit spectral deferred correction methods for problems of reactive flow. *Journal of Computational Physics*, 189(2):651–675, August 10, 2003. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002511>.

Bramkamp:2004:AMF

- [BLM04] F. Bramkamp, Ph. Lamby, and S. Müller. An adaptive multiscale finite volume solver for unsteady and steady state flow computations. *Journal of Computational Physics*, 197(2):460–490, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006478>.

Bennoune:2008:USN

- [BLM08] Mounir Bennoune, Mohammed Lemou, and Luc Mieussens. Uniformly stable numerical schemes for the Boltzmann equation preserving the compressible Navier–Stokes asymptotics. *Journal of Computational Physics*, 227(8):3781–3803, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005268>.

Bailey:2008:ECD

- [BLS08] A. G. Bailey, C. P. Lowe, and A. P. Sutton. Efficient constraint dynamics using MILC SHAKE. *Journal of Computational Physics*, 227(20):8949–8959, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003719>.

Bonnet:2001:GAI

- [BLW01] Frédéric D. R. Bonnet, Derek B. Leinweber, and Anthony G. Williams. General algorithm for improved lattice actions on parallel computing architectures. *Journal of Computational Physics*, 170(1):1–17, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966999>.

Bao:2004:NSG

- [BLW04] Jing-Dong Bao, Rong-Wu Li, and Wei Wu. Numerical simulations of generalized Langevin equations with deeply asymptotic parameters. *Journal of Computational*

Physics, 197(1):241–252, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006284>.

Berezovski:2001:STW

- [BM01a] A. Berezovski and G. A. Maugin. Simulation of thermoelastic wave propagation by means of a composite wave-propagation algorithm. *Journal of Computational Physics*, 168(1):249–264, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966975>.

Bertolazzi:2001:TBU

- [BM01b] Enrico Bertolazzi and Gianmarco Manzini. A triangle-based unstructured finite-volume method for chemically reactive hypersonic flows. *Journal of Computational Physics*, 166(1):84–115, January 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966446>.

Blanes:2001:SMN

- [BM01c] S. Blanes and P. C. Moan. Splitting methods for non-autonomous Hamiltonian equations. *Journal of Computational Physics*, 170(1):205–230, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967336>.

Bagdonat:2002:HSC

- [BM02] T. Bagdonat and U. Motschmann. 3D hybrid simulation code using curvilinear coordinates. *Journal of Computational Physics*, 183(2):470–485, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972037>.

Berrut:2005:OPS

- [BM05] Jean-Paul Berrut and Hans D. Mittelmann. Optimized point shifts and poles in the linear rational pseudospectral method for boundary value problems. *Journal of Computational Physics*, 204(1):292–301, March 20, 2005. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004176>.

Barranco:2006:SAH

- [BM06] Joseph A. Barranco and Philip S. Marcus. A 3D spectral anelastic hydrodynamic code for shearing, stratified flows. *Journal of Computational Physics*, 219(1):21–46, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001379>.

Breil:2007:CCD

- [BM07] Jérôme Breil and Pierre-Henri Maire. A cell-centered diffusion scheme on two-dimensional unstructured meshes. *Journal of Computational Physics*, 224(2):785–823, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005493>.

Brooks:2005:SIM

- [BMDS05] Eugene D. Brooks III, Michael Scott McKinley, Frank Daffin, and Abraham Szöke. Symbolic implicit Monte Carlo radiation transport in the difference formulation: a piecewise constant discretization. *Journal of Computational Physics*, 205(2):737–754, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004899>.

Bulashevich:2006:SVU

- [BMK⁺06] K. A. Bulashevich, V. F. Mymrin, S. Yu. Karpov, I. A. Zhmakin, and A. I. Zhmakin. Simulation of visible and ultraviolet group-III nitride light emitting diodes. *Journal of Computational Physics*, 213(1):214–238, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003785>.

Bansch:2005:FEM

- [BMN05] Eberhard Bänsch, Pedro Morin, and Ricardo H. Nochetto. A finite element method for surface diffusion: the parametric case. *Journal of Computational Physics*, 203(1):321–

343, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003304>.

BenAbdallah:2007:AAS

- [BMN07] N. Ben Abdallah, M. Mouis, and C. Negulescu. An accelerated algorithm for 2D simulations of the quantum ballistic transport in nanoscale MOSFETs. *Journal of Computational Physics*, 225(1):74–99, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600578X>.

Biava:2002:WFU

- [BMQS02] M. Biava, D. Modugno, L. Quartapelle, and M. Soppeli. Weak ψ - ω formulation for unsteady flows in 2D multiply connected domains. *Journal of Computational Physics*, 177(2):209–232, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969761>.

Beckett:2001:MMF

- [BMR01] G. Beckett, J. A. Mackenzie, and M. L. Robertson. A moving mesh finite element method for the solution of two-dimensional Stefan problems. *Journal of Computational Physics*, 168(2):500–518, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196721X>.

Beckett:2001:NSO

- [BMRS01] G. Beckett, J. A. Mackenzie, A. Ramage, and D. M. Sloan. On the numerical solution of one-dimensional PDEs using adaptive methods based on equidistribution. *Journal of Computational Physics*, 167(2):372–392, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966798>.

Beckett:2002:CST

- [BMRS02] G. Beckett, J. A. Mackenzie, A. Ramage, and D. M. Sloan. Computational solution of two-dimensional unsteady

PDEs using moving mesh methods. *Journal of Computational Physics*, 182(2):478–495, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971792>.

Bosisio:2000:DSE

- [BMS00] F. Bosisio, S. Micheletti, and R. Sacco. A discretization scheme for an extended drift-diffusion model including trap-assisted phenomena. *Journal of Computational Physics*, 159(2):197–212, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964283>.

Basko:2009:ECC

- [BMT09] M. M. Basko, J. Maruhn, and An. Tauschwitz. An efficient cell-centered diffusion scheme for quadrilateral grids. *Journal of Computational Physics*, 228(6):2175–2193, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006232>.

Beji:2004:FDN

- [BN04] S. Beji and K. Nadaoka. Fully dispersive nonlinear water wave model in curvilinear coordinates. *Journal of Computational Physics*, 198(2):645–658, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000579>.

Braconnier:2009:ASR

- [BN09] Benjamin Braconnier and Boniface Nkonga. An all-speed relaxation scheme for interface flows with surface tension. *Journal of Computational Physics*, 228(16):5722–5739, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002319>.

Bonnaillie-Noel:2006:CSS

- [BNNP06] Virginie Bonnaillie-Noël, Francis Nier, and Yassine Patel. Computing the steady states for an asymptotic model of quantum transport in resonant heterostructures. *Journal of Com-*

putational Physics, 219(2):644–670, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001975>.

Badia:2008:FSP

- [BNV08] Santiago Badia, Fabio Nobile, and Christian Vergara. Fluid-structure partitioned procedures based on Robin transmission conditions. *Journal of Computational Physics*, 227(14):7027–7051, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002192>.

Borm:2004:FEB

- [BO04] S. Börm and J. Ostrowski. Fast evaluation of boundary integral operators arising from an eddy current problem. *Journal of Computational Physics*, 193(1):67–85, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004194>.

Balandin:2005:MSE

- [BO05] A. L. Balandin and Y. Ono. The method of series expansion for 3-D vector tomography reconstruction. *Journal of Computational Physics*, 202(1):52–64, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002670>.

Bogaert:2009:LFS

- [BO09] Ignace Bogaert and Femke Olyslager. A low frequency stable plane wave addition theorem. *Journal of Computational Physics*, 228(4):1000–1016, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005354>.

Bodony:2006:ASZ

- [Bod06] Daniel J. Bodony. Analysis of sponge zones for computational fluid mechanics. *Journal of Computational Physics*, 212(2):681–702, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999105003517>.

Boersma:2005:SCF

- [Boe05] Bendiks Jan Boersma. A staggered compact finite difference formulation for the compressible Navier–Stokes equations. *Journal of Computational Physics*, 208(2):675–690, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001257>.

Bui:2006:FAM

- [BOK⁺06] T. T. Bui, E. T. Ong, B. C. Khoo, E. Klaseboer, and K. C. Hung. A fast algorithm for modeling multiple bubbles dynamics. *Journal of Computational Physics*, 216(2):430–453, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005590>.

Bonaventura:2000:SIS

- [Bon00] Luca Bonaventura. A semi-implicit semi-Lagrangian scheme using the height coordinate for a nonhydrostatic and fully elastic model of atmospheric flows. *Journal of Computational Physics*, 158(2):186–213, March 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964148>.

Borici:2000:LAI

- [Bor00] Artan Boriçi. A Lanczos approach to the inverse square root of a large and sparse matrix. *Journal of Computational Physics*, 162(1):123–131, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096529X>.

Borici:2003:CMU

- [Bor03] Artan Boriçi. Computational methods for UV-suppressed fermions. *Journal of Computational Physics*, 189(2):454–462, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002274>.

Boronski:2007:SMM

- [Bor07] Piotr Boronski. Spectral method for matching exterior and interior elliptic problems. *Journal of Computational Physics*, 225(1):449–463, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006000>.

Børve:2005:RSP

- [BOT05] S. Børve, M. Omang, and J. Trulsen. Regularized smoothed particle hydrodynamics with improved multi-resolution handling. *Journal of Computational Physics*, 208(1):345–367, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001154>.

Botha:2006:SVI

- [Bot06] Matthys M. Botha. Solving the volume integral equations of electromagnetic scattering. *Journal of Computational Physics*, 218(1):141–158, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000763>.

Bowers:2001:APC

- [Bow01] K. J. Bowers. Accelerating a particle-in-cell simulation using a hybrid counting sort. *Journal of Computational Physics*, 173(2):393–411, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968512>.

Boyd:2002:CNA

- [Boy02a] John P. Boyd. A comparison of numerical algorithms for Fourier extension of the first, second, and third kinds. *Journal of Computational Physics*, 178(1):118–160, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970233>.

Boyd:2002:DRQ

- [Boy02b] John P. Boyd. Deleted residuals, the QR-factored Newton iteration, and other methods for formally overdeter-

mined determinate discretizations of nonlinear eigenproblems for solitary, cnoidal, and shock waves. *Journal of Computational Physics*, 179(1):216–237, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297052X>.

Boyd:2003:LPM

- [Boy03] John P. Boyd. A Legendre-pseudospectral method for computing travelling waves with corners (slope discontinuities) in one space dimension with application to Whitham’s equation family. *Journal of Computational Physics*, 189(1):98–110, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002031>.

Boyd:2004:PSW

- [Boy04] John P. Boyd. Prolate spheroidal wavefunctions as an alternative to Chebyshev and Legendre polynomials for spectral element and pseudospectral algorithms. *Journal of Computational Physics*, 199(2):688–716, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001123>.

Boyd:2005:CRC

- [Boy05a] John P. Boyd. A Chebyshev/rational Chebyshev spectral method for the Helmholtz equation in a sector on the surface of a sphere: defeating corner singularities. *Journal of Computational Physics*, 206(1):302–310, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005145>.

Boyd:2005:TGR

- [Boy05b] John P. Boyd. Trouble with Gegenbauer reconstruction for defeating Gibbs’ phenomenon: Runge phenomenon in the diagonal limit of Gegenbauer polynomial approximations. *Journal of Computational Physics*, 204(1):253–264, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004152>.

Boyd:2006:PDS

- [Boy06] John P. Boyd. A proof that the discrete singular convolution (DSC)/Lagrange-distributed approximating function (LDAF) method is inferior to high order finite differences. *Journal of Computational Physics*, 214(2):538–549, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004602>. See comment [WZ07].

Boyd:2009:AAC

- [Boy09] John P. Boyd. Acceleration of algebraically-converging Fourier series when the coefficients have series in powers of $1/n$. *Journal of Computational Physics*, 228(5):1404–1411, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005627>.

Botchorishvili:2003:FVS

- [BP03] Ramaz Botchorishvili and Olivier Pironneau. Finite volume schemes with equilibrium type discretization of source terms for scalar conservation laws. *Journal of Computational Physics*, 187(2):391–427, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300086X>.

Brooks:2004:KLL

- [BP04a] Gregory P. Brooks and Joseph M. Powers. A Karhunen–Loève least-squares technique for optimization of geometry of a blunt body in supersonic flow. *Journal of Computational Physics*, 195(1):387–412, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005394>.

Brooks:2004:SPF

- [BP04b] Gregory P. Brooks and Joseph M. Powers. Standardized pseudospectral formulation of the inviscid supersonic blunt body problem. *Journal of Computational Physics*, 197(1):58–85, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006193>.

BenAbdallah:2006:MST

- [BP06] Naoufel Ben Abdallah and Olivier Pinaud. Multiscale simulation of transport in an open quantum system: Resonances and WKB interpolation. *Journal of Computational Physics*, 213(1):288–310, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003815>.

Buoni:2007:ESN

- [BP07] Matthew Buoni and Linda Petzold. An efficient, scalable numerical algorithm for the simulation of electrochemical systems on irregular domains. *Journal of Computational Physics*, 225(2):2320–2332, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001349>.

Bringley:2008:VSM

- [BP08] Thomas T. Bringley and Charles S. Peskin. Validation of a simple method for representing spheres and slender bodies in an immersed boundary method for Stokes flow on an unbounded domain. *Journal of Computational Physics*, 227(11):5397–5425, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800082X>.

Bernardini:2009:GSO

- [BP09] Matteo Bernardini and Sergio Pirozzoli. A general strategy for the optimization of Runge–Kutta schemes for wave propagation phenomena. *Journal of Computational Physics*, 228(11):4182–4199, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001077>.

Bonito:2006:NSV

- [BPL06] Andrea Bonito, Marco Picasso, and Manuel Laso. Numerical simulation of 3D viscoelastic flows with free surfaces. *Journal of Computational Physics*, 215(2):691–716, July 1,

2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005115>.

Beran:2006:UQL

- [BPM06] Philip S. Beran, Chris L. Pettit, and Daniel R. Millman. Uncertainty quantification of limit-cycle oscillations. *Journal of Computational Physics*, 217(1):217–247, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001872>.

Bass:2008:SRM

- [BPMR08] Alexander Bass, Seth Putterman, Barry Merriman, and Steven J. Ruuth. Symmetry reduction for molecular dynamics simulation of an imploding gas bubble. *Journal of Computational Physics*, 227(3):2118–2129, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004688>.

Bogaert:2007:FAF

- [BPO07] Ignace Bogaert, Davy Pissoot, and Femke Olyslager. A faster aggregation for 3D fast evanescent wave solvers using rotations. *Journal of Computational Physics*, 227(1):557–573, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003476>.

Bergamaschi:2003:CES

- [BPS03] Luca Bergamaschi, Giorgio Pini, and Flavio Sartoretto. Computational experience with sequential and parallel, preconditioned Jacobi–Davidson for large, sparse symmetric matrices. *Journal of Computational Physics*, 188(1):318–331, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001906>.

Badia:2009:CBN

- [BQQ09] Santiago Badia, Annalisa Quaini, and Alfio Quarteroni. Coupling Biot and Navier–Stokes equations for modelling fluid-poroelastic media interaction. *Journal of Computational Physics*, 228(21):7986–8014, November 20, 2009. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004069>.

Balakrishnan:2001:OIM

- [BR01] Karthik Balakrishnan and Palghat A. Ramachandran. Osculatory interpolation in the method of fundamental solution for nonlinear Poisson problems. *Journal of Computational Physics*, 172(1):1–18, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967968>.

Bajpayi:2009:FVD

- [BR09a] Mayank Bajpayi and S. V. Raghurama Rao. A finite variable difference relaxation scheme for hyperbolic-parabolic equations. *Journal of Computational Physics*, 228(20):7513–7542, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900360X>.

Bjontegaard:2009:AIT

- [BR09b] Tormod Bjontegaard and Einar M. Rønquist. Accurate interface-tracking for arbitrary Lagrangian–Eulerian schemes. *Journal of Computational Physics*, 228(12):4379–4399, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001326>.

Brackbill:2001:A

- [Bra01] J. U. Brackbill. Announcement. *Journal of Computational Physics*, 170(2):919–920, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968408>.

Brackbill:2004:IHS

- [Bra04] J. U. Brackbill. Introduction to Harlow’s scientific memoir. *Journal of Computational Physics*, 195(2):413, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005680>.

Brackbill:2008:BCM

- [Bra08] J. U. Brackbill. Boundary conditions for Maxwell solvers. *Journal of Computational Physics*, 227(14):6715–6719, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002003>.

Boyd:2003:PMS

- [BRB03] John P. Boyd, C. Rangan, and P. H. Bucksbaum. Pseudospectral methods on a semi-infinite interval with application to the hydrogen atom: a comparison of the mapped Fourier-sine method with Laguerre series and rational Chebyshev expansions. *Journal of Computational Physics*, 188(1):56–74, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300127X>.

Bernard:2009:HOD

- [BRC⁺09] P.-E. Bernard, J.-F. Remacle, R. Comblen, V. Legat, and K. Hillewaert. High-order discontinuous Galerkin schemes on general 2D manifolds applied to the shallow water equations. *Journal of Computational Physics*, 228(17):6514–6535, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003143>.

Balsara:2009:EHA

- [BRDM09] Dinshaw S. Balsara, Tobias Rumpf, Michael Dumbser, and Claus-Dieter Munz. Efficient, high accuracy ADER–WENO schemes for hydrodynamics and divergence-free magnetohydrodynamics. *Journal of Computational Physics*, 228(7):2480–2516, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006396>.

Bhaganagar:2002:DNS

- [BRL02] Kiran Bhaganagar, Dietmar Rempfer, and John Lumley. Direct numerical simulation of spatial transition to turbulence using fourth-order vertical velocity second-order vertical vorticity formulation. *Journal of Computational Physics*, 180(1):200–228, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999102970889>.

Bonet:2005:HFV

- [BRP05] Javier Bonet and Miguel X. Rodríguez-Paz. Hamiltonian formulation of the variable- h SPH equations. *Journal of Computational Physics*, 209(2):541–558, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001865>.

Balsara:2000:MPW

- [BS00a] Dinshaw S. Balsara and Chi-Wang Shu. Monotonicity preserving weighted essentially non-oscillatory schemes with increasingly high order of accuracy. *Journal of Computational Physics*, 160(2):405–452, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096443X>.

Barichello:2000:SPR

- [BS00b] L. B. Barichello and C. E. Siewert. The searchlight problem for radiative transfer in a finite slab. *Journal of Computational Physics*, 157(2):707–726, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963969>.

Benamou:2000:EMC

- [BS00c] Jean-David Benamou and Ian Sollic. An Eulerian method for capturing caustics. *Journal of Computational Physics*, 162(1):132–163, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965306>.

Betsch:2000:IEC

- [BS00d] P. Betsch and P. Steinmann. Inherently energy conserving time finite elements for classical mechanics. *Journal of Computational Physics*, 160(1):88–116, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964271>.

Brown:2000:IMA

- [BS00e] D. J. Brown and R. M. Stringfield. Iterative methods applied to matrix equations found in calculating spheroidal functions. *Journal of Computational Physics*, 159(2):329–343, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964489>.

Bessonov:2001:AVC

- [BS01] Nicholas M. Bessonov and Dong Joo Song. Application of vector calculus to numerical simulation of continuum mechanics problems. *Journal of Computational Physics*, 167(1):22–38, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966531>.

Besse:2003:SLS

- [BS03a] N. Besse and E. Sonnendrücker. Semi-Lagrangian schemes for the Vlasov equation on an unstructured mesh of phase space. *Journal of Computational Physics*, 191(2):341–376, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003188>.

Blackburn:2003:SEF

- [BS03b] H. M. Blackburn and S. Schmidt. Spectral element filtering techniques for large eddy simulation with dynamic estimation. *Journal of Computational Physics*, 186(2):610–629, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000883>.

Ballestra:2004:NPS

- [BS04a] Luca V. Ballestra and Riccardo Sacco. Numerical problems in semiconductor simulation using the hydrodynamic model: a second-order finite difference scheme. *Journal of Computational Physics*, 195(1):320–340, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005345>.

Bernard:2004:GFD

- [BS04b] Peter S. Bernard and Jun Shen. A grid-free dilatation element method for quasi-one-dimensional gas dynamics. *Journal of Computational Physics*, 199(1):41–65, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000646>.

Blackburn:2004:FGS

- [BS04c] H. M. Blackburn and S. J. Sherwin. Formulation of a Galerkin spectral element–Fourier method for three-dimensional incompressible flows in cylindrical geometries. *Journal of Computational Physics*, 197(2):759–778, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000907>.

Borisov:2004:AWP

- [BS04d] Andrei G. Borisov and Sergei V. Shabanov. Applications of the wave packet method to resonant transmission and reflection gratings. *Journal of Computational Physics*, 199(2):742–762, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001275>.

Borisov:2005:LPM

- [BS05] Andrei G. Borisov and Sergei V. Shabanov. Lanczos pseudospectral method for initial-value problems in electrodynamics and its applications to ionic crystal gratings. *Journal of Computational Physics*, 209(2):643–664, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001920>.

Borisov:2006:WPP

- [BS06a] Andrei G. Borisov and Sergei V. Shabanov. Wave packet propagation by the Faber polynomial approximation in electrodynamics of passive media. *Journal of Computational Physics*, 216(1):391–402, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005577>.

Bourgeade:2006:NMB

- [BS06b] Antoine Bourgeade and Olivier Saut. Numerical methods for the bidimensional Maxwell–Bloch equations in nonlinear crystals. *Journal of Computational Physics*, 213(2):823–843, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004183>.

Bhan:2007:CHM

- [BS07] Katherine Bhan and Jerome Spanier. Condensed history Monte Carlo methods for photon transport problems. *Journal of Computational Physics*, 225(2):1673–1694, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000770>.

Bao:2008:GLH

- [BS08a] Weizhu Bao and Jie Shen. A generalized-Laguerre–Hermite pseudospectral method for computing symmetric and central vortex states in Bose–Einstein condensates. *Journal of Computational Physics*, 227(23):9778–9793, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004063>.

Beale:2008:LCS

- [BS08b] J. Thomas Beale and John Strain. Locally corrected semi-Lagrangian methods for Stokes flow with moving elastic interfaces. *Journal of Computational Physics*, 227(8):3896–3920, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005402>.

Bereau:2009:OCM

- [BS09a] Tristan Bereau and Robert H. Swendsen. Optimized convergence for multiple histogram analysis. *Journal of Computational Physics*, 228(17):6119–6129, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002630>.

Branicio:2009:LSC

- [BS09b] Paulo S. Branicio and David J. Srolovitz. Local stress calculation in simulations of multicomponent systems. *Journal of Computational Physics*, 228(22):8467–8479, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004653>.

Burbeau:2001:PIL

- [BSB01] A. Burbeau, P. Sagaut, and Ch.-H. Bruneau. A problem-independent limiter for high-order Runge–Kutta discontinuous Galerkin methods. *Journal of Computational Physics*, 169(1):111–150, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196718X>.

Bdzil:2001:PBA

- [BSJ01] J. B. Bdzil, D. S. Stewart, and T. L. Jackson. Program burn algorithms based on detonation shock dynamics: Discrete approximations of detonation flows with discontinuous front models. *Journal of Computational Physics*, 174(2):870–902, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969426>.

Banks:2007:HRG

- [BSKH07] J. W. Banks, D. W. Schwendeman, A. K. Kapila, and W. D. Henshaw. A high-resolution Godunov method for compressible multi-material flow on overlapping grids. *Journal of Computational Physics*, 223(1):262–297, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004360>.

Bourantas:2009:ASE

- [BSLN09] G. C. Bourantas, E. D. Skouras, V. C. Loukopoulos, and G. C. Nikiforidis. An accurate, stable and efficient domain-type meshless method for the solution of MHD flow problems. *Journal of Computational Physics*, 228(21):8135–8160, November

20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004227>.

Brooks:2006:PLD

- [BSP06] Eugene D. Brooks III, Abraham Szőke, and Jayson D. L. Peterson. Piecewise linear discretization of symbolic implicit Monte Carlo radiation transport in the difference formulation. *Journal of Computational Physics*, 220(1):471–497, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003433>.

Bateman:2001:ENS

- [BST01] W. J. D. Bateman, C. Swan, and P. H. Taylor. On the efficient numerical simulation of directionally spread surface water waves. *Journal of Computational Physics*, 174(1):277–305, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969062>.

Bateman:2003:CWP

- [BST03] W. J. D. Bateman, C. Swan, and P. H. Taylor. On the calculation of the water particle kinematics arising in a directionally spread wavefield. *Journal of Computational Physics*, 186(1):70–92, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000123>.

Bao:2003:NMG

- [BSW03] Weizhu Bao, Fangfang Sun, and G. W. Wei. Numerical methods for the generalized Zakharov system. *Journal of Computational Physics*, 190(1):201–228, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002717>.

Brown:2005:FIS

- [BSW05] Peter N. Brown, Dana E. Shumaker, and Carol S. Woodward. Fully implicit solution of large-scale non-equilibrium

radiation diffusion with high order time integration. *Journal of Computational Physics*, 204(2):760–783, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004371>.

Bertrand:2002:KBU

- [BT02] François Bertrand and Philippe A. Tanguy. Krylov-based Uzawa algorithms for the solution of the Stokes equations using discontinuous-pressure tetrahedral finite elements. *Journal of Computational Physics*, 181(2):617–638, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971445>.

Bao:2003:GSS

- [BT03] Weizhu Bao and Weijun Tang. Ground-state solution of Bose–Einstein condensate by directly minimizing the energy functional. *Journal of Computational Physics*, 187(1):230–254, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000974>.

Bolton:2005:MCL

- [BT05] P. Bolton and R. W. Thatcher. On mass conservation in least-squares methods. *Journal of Computational Physics*, 203(1):287–304, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003286>.

Bolton:2006:LSF

- [BT06] P. Bolton and R. W. Thatcher. A least-squares finite element method for the Navier–Stokes equations. *Journal of Computational Physics*, 213(1):174–183, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500375X>.

Boronski:2007:PTDa

- [BT07a] Piotr Boronski and Laurette S. Tuckerman. Poloidal-toroidal decomposition in a finite cylinder. I: Influence matrices for

the magnetohydrodynamic equations. *Journal of Computational Physics*, 227(2):1523–1543, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700383X>.

Boronski:2007:PTDb

- [BT07b] Piotr Boronski and Laurette S. Tuckerman. Poloidal-toroidal decomposition in a finite cylinder: II. Discretization, regularization and validation. *Journal of Computational Physics*, 227(2):1544–1566, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003804>.

Boubendir:2009:SDB

- [BT09] Yassine Boubendir and Svetlana Tlupova. Stokes–Darcy boundary integral solutions using preconditioners. *Journal of Computational Physics*, 228(23):8627–8641, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004604>.

Bennett:2005:LBO

- [BTC05] A. F. Bennett, J. R. Taylor, and B. S. Chua. Lattice Boltzmann open boundaries for hydrodynamic models. *Journal of Computational Physics*, 203(1):89–111, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003195>.

Boyadjiev:2001:MMB

- [BTFY01] T. L. Boyadjiev, M. D. Todorov, P. P. Fiziev, and S. S. Yazadjiev. Mathematical modeling of boson-fermion stars in the generalized scalar-tensor theories of gravity. *Journal of Computational Physics*, 166(2):253–270, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096649X>.

Bohm:2009:TCF

- [BTSM09] M. Böhm, M. Tasche, B. Seifert, and F. Mitschke. Trim-to-coherence Fourier transform. *Journal of Computational*

Physics, 228(8):2906–2917, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000072>.

Bernetti:2008:ESR

- [BTT08] R. Bernetti, V. A. Titarev, and E. F. Toro. Exact solution of the Riemann problem for the shallow water equations with discontinuous bottom geometry. *Journal of Computational Physics*, 227(6):3212–3243, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005281>.

Briley:2003:HRV

- [BTW03] W. R. Briley, L. K. Taylor, and D. L. Whitfield. High-resolution viscous flow simulations at arbitrary Mach number. *Journal of Computational Physics*, 184(1):79–105, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000189>.

Balbas:2004:NOC

- [BTW04] Jorge Balbás, Eitan Tadmor, and Cheng-Chin Wu. Non-oscillatory central schemes for one- and two-dimensional MHD equations: I. *Journal of Computational Physics*, 201(1):261–285, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002293>.

Bui-Thanh:2007:GOM

- [BTWGvBW07] T. Bui-Thanh, K. Willcox, O. Ghattas, and B. van Bloemen Waanders. Goal-oriented, model-constrained optimization for reduction of large-scale systems. *Journal of Computational Physics*, 224(2):880–896, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005535>.

Boyle:2002:NGI

- [BU02] P. Boyle and UKQCD Collaboration. A novel gauge invariant multistate smearing technique. *Journal of Com-*

putational Physics, 179(2):349–370, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967981>.

Buchmann:2005:SSD

- [Buc05] F. M. Buchmann. Simulation of stopped diffusions. *Journal of Computational Physics*, 202(2):446–462, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002931>.

Brunner:2006:CFP

- [BUEG06] Thomas A. Brunner, Todd J. Urbatsch, Thomas M. Evans, and Nicholas A. Gentile. Comparison of four parallel algorithms for domain decomposed implicit Monte Carlo. *Journal of Computational Physics*, 212(2):527–539, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003311>.

Burger:2005:NSA

- [Bur05] Martin Burger. Numerical simulation of anisotropic surface diffusion with curvature-dependent energy. *Journal of Computational Physics*, 203(2):602–625, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003936>.

Buss:2000:AES

- [Bus00] Samuel R. Buss. Accurate and efficient simulation of rigid-body rotations. *Journal of Computational Physics*, 164(2):377–406, November 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966026>.

Bao:2000:MEE

- [BV00] Gang Bao and Tri Van. Modeling of evanescent energy in optical fibers. *Journal of Computational Physics*, 161(2):700–717, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965288>.

Becker:2005:MRN

- [BV05] Roland Becker and Boris Vexler. Mesh refinement and numerical sensitivity analysis for parameter calibration of partial differential equations. *Journal of Computational Physics*, 206(1):95–110, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004954>.

Blokland:2007:PMS

- [BvdHKG07] J. W. S. Blokland, B. van der Holst, R. Keppens, and J. P. Goedbloed. PHOENIX: MHD spectral code for rotating laboratory and gravitating astrophysical plasmas. *Journal of Computational Physics*, 226(1):509–533, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001702>.

Beskok:2001:UHF

- [BW01] Ali Beskok and Timothy C. Warburton. An unstructured hp finite-element scheme for fluid flow and heat transfer in moving domains. *Journal of Computational Physics*, 174(2):492–509, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968858>.

Beck:2002:DSS

- [BW02] J. C. Beck and A. P. Watkins. On the development of spray submodels based on droplet size moments. *Journal of Computational Physics*, 182(2):586–621, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297186X>.

Bao:2006:ESAa

- [BW06] Weizhu Bao and Hanquan Wang. An efficient and spectrally accurate numerical method for computing dynamics of rotating Bose–Einstein condensates. *Journal of Computational Physics*, 217(2):612–626, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000258>.

Bridge:2007:MFN

- [BW07] L. J. Bridge and B. R. Wetton. A mixture formulation for numerical capturing of a two-phase/vapour interface in a porous medium. *Journal of Computational Physics*, 225(2):2043–2068, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001192>.

Benselama:2009:MMN

- [BWLM09] Adel M. Benselama, Mame J.-P. William-Louis, and François Monnoyer. A 1D–3D mixed method for the numerical simulation of blast waves in confined geometries. *Journal of Computational Physics*, 228(18):6796–6810, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003222>.

Bao:2007:EAN

- [BY07] Weizhu Bao and Li Yang. Efficient and accurate numerical methods for the Klein–Gordon–Schrödinger equations. *Journal of Computational Physics*, 225(2):1863–1893, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000915>.

Bao:2008:MCB

- [BYS08] Jie Bao, Peng Yuan, and Laura Schaefer. A mass conserving boundary condition for the lattice Boltzmann equation method. *Journal of Computational Physics*, 227(18):8472–8487, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003288>.

Biros:2004:FSS

- [BYZ04] George Biros, Lexing Ying, and Denis Zorin. A fast solver for the Stokes equations with distributed forces in complex geometries. *Journal of Computational Physics*, 193(1):317–348, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004352>.

Batra:2004:AAS

- [BZ04] R. C. Batra and G. M. Zhang. Analysis of adiabatic shear bands in elasto-thermo-viscoplastic materials by modified smoothed-particle hydrodynamics (MSPH) method. *Journal of Computational Physics*, 201(1):172–190, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002062>.

Batra:2008:MSP

- [BZ08] R. C. Batra and G. M. Zhang. Modified smoothed particle hydrodynamics (MSPH) basis functions for meshless methods, and their application to axisymmetric Taylor impact test. *Journal of Computational Physics*, 227(3):1962–1981, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004421>.

Boyd:2009:TWS

- [BZ09] John P. Boyd and Cheng Zhou. Three ways to solve the Poisson equation on a sphere with Gaussian forcing. *Journal of Computational Physics*, 228(13):4702–4713, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001338>.

Bowman:2000:MAN

- [BZB00] John C. Bowman, A. Zeiler, and D. Biskamp. A multigrid algorithm for nonlocal collisional electrostatic drift-wave turbulence. *Journal of Computational Physics*, 158(2):239–261, March 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964173>.

Brio:2001:TDR

- [BZW01] M. Brio, A. R. Zakharian, and G. M. Webb. Two-dimensional Riemann solver for Euler equations of gas dynamics. *Journal of Computational Physics*, 167(1):177–195, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096666X>.

Chang:2006:ALB

- [CA06] Qingming Chang and J. Iwan D. Alexander. Application of the lattice Boltzmann method to two-phase Rayleigh–Bénard convection with a deformable interface. *Journal of Computational Physics*, 212(2):473–489, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003293>.

Cuenot:2000:CAS

- [CAL00] B. Cuenot, C. Angelberger, and J.-P. Legier. Convergence acceleration for steady flame computations. *Journal of Computational Physics*, 161(2):718–722, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965124>.

Calhoun:2002:CGM

- [Cal02] Donna Calhoun. A Cartesian grid method for solving the two-dimensional streamfunction-vorticity equations in irregular regions. *Journal of Computational Physics*, 176(2):231–275, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969700>.

Cameron:2003:REG

- [Cam03] Chris Cameron. Relative efficiency of Gaussian stochastic process sampling procedures. *Journal of Computational Physics*, 192(2):546–569, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300408X>.

Capdeville:2005:NCH

- [Cap05] G. Capdeville. A new category of Hermitian upwind schemes for computational acoustics. *Journal of Computational Physics*, 210(1):133–170, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002020>.

Capdeville:2006:NCH

- [Cap06] G. Capdeville. A new category of Hermitian upwind schemes for computational acoustics — II. Two-dimensional aeroacoustics. *Journal of Computational Physics*, 217(2):530–562, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000222>.

Capdeville:2008:CWS

- [Cap08a] G. Capdeville. A central WENO scheme for solving hyperbolic conservation laws on non-uniform meshes. *Journal of Computational Physics*, 227(5):2977–3014, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005256>.

Capdeville:2008:HUW

- [Cap08b] G. Capdeville. A Hermite upwind WENO scheme for solving hyperbolic conservation laws. *Journal of Computational Physics*, 227(4):2430–2454, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004731>.

Capdeville:2008:TCH

- [Cap08c] G. Capdeville. Towards a compact high-order method for non-linear hyperbolic systems, II. The Hermite–HLLC scheme. *Journal of Computational Physics*, 227(22):9428–9462, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003550>.

Capdeville:2009:TCH

- [Cap09] G. Capdeville. Towards a compact high-order method for non-linear hyperbolic systems. I: The Hermite least-square monotone (HLSM) reconstruction. *Journal of Computational Physics*, 228(10):3762–3788, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000783>.

Caramana:2001:TRS

- [Car01] E. J. Caramana. Timestep relaxation with symmetry preservation on high aspect-ratio angular or tapered grids. *Journal of Computational Physics*, 166(1):173–185, January 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966483>.

Carley:2002:TVM

- [Car02] Michael Carley. A triangulated vortex method for the axisymmetric Euler equations. *Journal of Computational Physics*, 180(2):616–641, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297107X>.

Caramana:2009:ISL

- [Car09] E. J. Caramana. The implementation of slide lines as a combined force and velocity boundary condition. *Journal of Computational Physics*, 228(11):3911–3916, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001090>.

Cummins:2002:IPC

- [CB02] S. J. Cummins and J. U. Brackbill. An implicit particle-in-cell method for granular materials. *Journal of Computational Physics*, 180(2):506–548, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971019>.

Cervino:2003:ECS

- [CB03] Laura I. Cerviño and Thomas R. Bewley. On the extension of the complex-step derivative technique to pseudospectral algorithms. *Journal of Computational Physics*, 187(2):544–549, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001232>.

Cyr:2007:UMW

- [CB07] Eric C. Cyr and Stephen D. Bond. Using the method of weighted residuals to compute potentials of mean force. *Jour-*

Journal of Computational Physics, 225(1):714–729, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600619X>.

Coyajee:2009:NSD

- [CB09] Emil Coyajee and Bendiks Jan Boersma. Numerical simulation of drop impact on a liquid-liquid interface with a multiple marker front-capturing method. *Journal of Computational Physics*, 228(12):4444–4467, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001363>.

Champagne:2001:FFD

- [CBB01] Nathan J. Champagne II, James G. Berryman, and H. Michael Buettner. FDFD: a 3D finite-difference frequency-domain code for electromagnetic induction tomography. *Journal of Computational Physics*, 170(2):830–848, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967658>.

Cebrian:2009:SSC

- [CBC09] E. Cebrián, L. L. Bonilla, and A. Carpio. Self-sustained current oscillations in the kinetic theory of semiconductor superlattices. *Journal of Computational Physics*, 228(20):7689–7705, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900388X>.

Chantalat:2009:LSP

- [CBGI09] Frédéric Chantalat, Charles-Henri Bruneau, Cédric Galusinski, and Angelo Iollo. Level-set, penalization and Cartesian meshes: a paradigm for inverse problems and optimal design. *Journal of Computational Physics*, 228(17):6291–6315, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002757>.

Choi:2003:QIL

- [CBH03] Jae-Hoon Choi, Ki-Ryang Byun, and Ho-Jung Hwang. Quality-improved local refinement of tetrahedral mesh based on element-wise refinement switching. *Journal of Computational Physics*, 192(1):312–324, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003954>.

Choi:2004:ICW

- [CBI⁺04] Dae-Il Choi, J. David Brown, Breno Imbiriba, Joan Centrella, and Peter MacNeice. Interface conditions for wave propagation through mesh refinement boundaries. *Journal of Computational Physics*, 193(2):398–425, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300370X>.

Carbonell:2007:NSN

- [CBJdlC07] F. Carbonell, R. J. Biscay, J. C. Jimenez, and H. de la Cruz. Numerical simulation of nonlinear dynamical systems driven by commutative noise. *Journal of Computational Physics*, 226(2):1219–1233, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002306>.

Chacon:2000:IECa

- [CBKM00a] L. Chacón, D. C. Barnes, D. A. Knoll, and G. H. Miley. An implicit energy-conservative 2D Fokker–Planck algorithm: I. Difference scheme. *Journal of Computational Physics*, 157(2):618–653, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963945>.

Chacon:2000:IECb

- [CBKM00b] L. Chacón, D. C. Barnes, D. A. Knoll, and G. H. Miley. An implicit energy-conservative 2D Fokker–Planck algorithm: II. Jacobian-free Newton–Krylov solver. *Journal of Computational Physics*, 157(2):654–682, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963957>.

Cristini:2001:AMA

- [CBL01] Vittorio Cristini, Jerzy Bławdziewicz, and Michael Loewenberg. An adaptive mesh algorithm for evolving surfaces: Simulations of drop breakup and coalescence. *Journal of Computational Physics*, 168(2):445–463, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967130>.

Cheng:2002:MCC

- [CBMO02] Li-Tien Cheng, Paul Burchard, Barry Merriman, and Stanley Osher. Motion of curves constrained on surfaces using a level-set approach. *Journal of Computational Physics*, 175(2):604–644, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969608>.

Couplet:2005:CRO

- [CBS05] M. Couplet, C. Basdevant, and P. Sagaut. Calibrated reduced-order POD–Galerkin system for fluid flow modelling. *Journal of Computational Physics*, 207(1):192–220, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000239>.

Chang:2003:DDA

- [CC03] S.-L. Chang and C.-S. Chien. Domain decomposition algorithms for fourth-order nonlinear elliptic eigenvalue problems. *Journal of Computational Physics*, 191(2):476–501, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003279>.

Cook:2004:HWV

- [CC04] Andrew W. Cook and William H. Cabot. A high-wavenumber viscosity for high-resolution numerical methods. *Journal of Computational Physics*, 195(2):594–601, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005746>.

Cook:2005:HST

- [CC05] Andrew W. Cook and William H. Cabot. Hyperviscosity for shock-turbulence interactions. *Journal of Computational Physics*, 203(2):379–385, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004000>.

Chen:2007:AHO

- [CC07] Yanlai Chen and Bernardo Cockburn. An adaptive high-order discontinuous Galerkin method with error control for the Hamilton–Jacobi equations. Part I: The one-dimensional steady state case. *Journal of Computational Physics*, 226(1):1027–1058, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002203>.

Chen:2008:NPP

- [CC08a] Dake Chen and Mark A. Cane. El Niño prediction and predictability. *Journal of Computational Physics*, 227(7):3625–3640, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700229X>.

Coquerelle:2008:VLS

- [CC08b] M. Coquerelle and G.-H. Cottet. A vortex level set method for the two-way coupling of an incompressible fluid with colliding rigid bodies. *Journal of Computational Physics*, 227(21):9121–9137, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001976>.

Crockett:2005:UCC

- [CCF⁺05] Robert K. Crockett, Phillip Colella, Robert T. Fisher, Richard I. Klein, and Christopher F. McKee. An unsplit, cell-centered Godunov method for ideal MHD. *Journal of Computational Physics*, 203(2):422–448, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003869>.

Cheng:2006:WFM

- [CCG⁺06] Hongwei Cheng, William Y. Crutchfield, Zydrunas Gimbutas, Leslie F. Greengard, J. Frank Ethridge, Jingfang Huang, Vladimir Rokhlin, Norman Yarvin, and Junsheng Zhao. A wideband fast multipole method for the Helmholtz equation in three dimensions. *Journal of Computational Physics*, 216(1):300–325, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500553X>.

Calgaro:2008:HFV

- [CCG08] Caterina Calgaro, Emmanuel Creusé, and Thierry Goudon. An hybrid finite volume-finite element method for variable density incompressible flows. *Journal of Computational Physics*, 227(9):4671–4696, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000466>.

Chang:2007:CWF

- [CCJ07] S.-L. Chang, C.-S. Chien, and B.-W. Jeng. Computing wave functions of nonlinear Schrödinger equations: a time-independent approach. *Journal of Computational Physics*, 226(1):104–130, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001453>.

Chung:2005:EIT

- [CCT05] Eric T. Chung, Tony F. Chan, and Xue-Cheng Tai. Electrical impedance tomography using level set representation and total variational regularization. *Journal of Computational Physics*, 205(1):357–372, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004711>.

Chaljub:2003:SEF

- [CCV03] Emmanuel Chaljub, Yann Capdeville, and Jean-Pierre Vilotte. Solving elastodynamics in a fluid-solid heterogeneous sphere: a parallel spectral element approximation on non-conforming grids. *Journal of Computational Physics*, 187(2):457–491, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001190>.

Cox:2000:BSO

- [CD00] Steven J. Cox and David C. Dobson. Band structure optimization of two-dimensional photonic crystals in H -polarization. *Journal of Computational Physics*, 158(2):214–224, March 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199919996415X>.

Cai:2003:UEB

- [CD03] Wei Cai and Shaozhong Deng. An upwinding embedded boundary method for Maxwell’s equations in media with material interfaces: 2D case. *Journal of Computational Physics*, 190(1):159–183, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002699>.

Campos:2004:NIH

- [CD04] Isabel Campos and James W. Davenport. Numerical investigation of the 3D Hubbard model on a Linux cluster. *Journal of Computational Physics*, 196(1):88–101, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005886>.

Costa:2007:MDH

- [CD07] Bruno Costa and Wai Sun Don. Multi-domain hybrid spectral-WENO methods for hyperbolic conservation laws. *Journal of Computational Physics*, 224(2):970–991, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005614>.

Chang:2007:MIB

- [CDDH07] Anthony Chang, Jonathan A. Dantzig, Brian T. Darr, and Allison Hubel. Modeling the interaction of biological cells with a solidifying interface. *Journal of Computational Physics*, 226(2):1808–1829, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002628>.

Carre:2009:CCL

- [CDDL09] G. Carré, S. Del Pino, B. Després, and E. Labourasse. A cell-centered Lagrangian hydrodynamics scheme on general unstructured meshes in arbitrary dimension. *Journal of Computational Physics*, 228(14):5160–5183, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900196X>.

Christie:2006:UQP

- [CDE06] Mike Christie, Vasily Demyanov, and Demet Erbas. Uncertainty quantification for porous media flows. *Journal of Computational Physics*, 217(1):143–158, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000350>.

Chabory:2008:FTB

- [CdHST08] A. Chabory, B. P. de Hon, W. H. A. Schilders, and A. G. Tijhuis. Fast transform based preconditioners for 2D finite-difference frequency-domain — waveguides and periodic structures. *Journal of Computational Physics*, 227(16):7755–7767, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002611>.

Chantrasmi:2009:PLA

- [CDI09] T. Chantrasmi, A. Doostan, and G. Iaccarino. Padé–Legendre approximants for uncertainty analysis with discontinuous response surfaces. *Journal of Computational Physics*, 228(19):7159–7180, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900326X>.

Cai:2007:EFM

- [CDJ07] Wei Cai, Shaozhong Deng, and Donald Jacobs. Extending the fast multipole method to charges inside or outside a dielectric sphere. *Journal of Computational Physics*, 223(2):846–864, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004773>.

Cohen:2000:MST

- [CDKP00] Albert Cohen, Nira Dyn, Sidi Mahmoud Kaber, and Marie Postel. Multiresolution schemes on triangles for scalar conservation laws. *Journal of Computational Physics*, 161(1):264–286, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965033>.

Crouseilles:2004:HKF

- [CDL04] N. Crouseilles, P. Degond, and M. Lemou. A hybrid kinetic/fluid model for solving the gas dynamics Boltzmann–BGK equation. *Journal of Computational Physics*, 199(2):776–808, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001329>.

Crouseilles:2005:HKF

- [CDL05] Nicolas Crouseilles, Pierre Degond, and Mohammed Lemou. A hybrid kinetic-fluid model for solving the Vlasov–BGK equation. *Journal of Computational Physics*, 203(2):572–601, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003924>.

Chen:2009:ISP

- [CDR09] Yu Chen, Ran Duan, and Vladimir Rokhlin. On the inverse scattering problem in the acoustic environment. *Journal of Computational Physics*, 228(9):3209–3231, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006724>.

Chinnayya:2004:MDW

- [CDS04] Ashwin Chinnayya, Eric Daniel, and Richard Saurel. Modelling detonation waves in heterogeneous energetic materials. *Journal of Computational Physics*, 196(2):490–538, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006065>.

Crispel:2005:QNF

- [CDV05] Pierre Crispel, Pierre Degond, and Marie-Hélène Vignal. Quasi-neutral fluid models for current-carrying plasmas. *Journal of Computational Physics*, 205(2):408–438, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004735>.

Crispel:2007:APS

- [CDV07] Pierre Crispel, Pierre Degond, and Marie-Hélène Vignal. An asymptotic preserving scheme for the two-fluid Euler–Poisson model in the quasineutral limit. *Journal of Computational Physics*, 223(1):208–234, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004335>.

Cecil:2005:NMC

- [Cec05] Thomas Cecil. A numerical method for computing minimal surfaces in arbitrary dimension. *Journal of Computational Physics*, 206(2):650–660, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000094>.

Chenier:2009:CFV

- [CEH09] Eric Chénier, Robert Eymard, and Raphaële Herbin. A collocated finite volume scheme to solve free convection for general non-conforming grids. *Journal of Computational Physics*, 228(6):2296–2311, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005639>.

Colin:2006:CND

- [CEL06] F. Colin, R. Egli, and F. Y. Lin. Computing a null divergence velocity field using smoothed particle hydrodynamics. *Journal of Computational Physics*, 217(2):680–692, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000295>.

Chen:2007:DGI

- [CELS07] Shanqin Chen, Weinan E., Yunxian Liu, and Chi-Wang Shu. A discontinuous Galerkin implementation of a domain decomposition multi-scale method for kinetic-hydrodynamic coupling multi-scale problems in gas dynamics and device simulations. *Journal of Computational Physics*, 225(2):1314–1330, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000435>.

Cassidy:2009:IIS

- [CET09] Daniel A. Cassidy, Jack R. Edwards, and Ming Tian. An investigation of interface-sharpening schemes for multiphase mixture flows. *Journal of Computational Physics*, 228(16):5628–5649, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000850>.

Crouseilles:2004:NAC

- [CF04] Nicolas Crouseilles and Francis Filbet. Numerical approximation of collisional plasmas by high order methods. *Journal of Computational Physics*, 201(2):546–572, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002426>.

Callaghan:2006:CLA

- [CF06a] T. G. Callaghan and L. K. Forbes. Computing large-amplitude progressive Rossby waves on a sphere. *Journal of Computational Physics*, 217(2):845–865, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000441>.

Chou:2006:MDM

- [CF06b] Chuan-Chih Chou and Michael L. Falk. Multiscale diffusion Monte Carlo simulation of epitaxial growth. *Journal of Computational Physics*, 217(2):519–529, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000210>.

Caiden:2001:NMT

- [CFA01] Rachel Caiden, Ronald P. Fedkiw, and Chris Anderson. A numerical method for two-phase flow consisting of separate compressible and incompressible regions. *Journal of Computational Physics*, 166(1):1–27, January 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966245>.

Carlini:2007:SLS

- [CFF07] E. Carlini, M. Falcone, and R. Ferretti. A semi-Lagrangian scheme for the curve shortening flow in codimension-2. *Journal of Computational Physics*, 225(2):1388–1408, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000472>.

Clamond:2005:EMT

- [CFGK05] Didier Clamond, Dorian Fructus, John Grue, and Øyvind Kristiansen. An efficient model for three-dimensional surface wave simulations. Part II: Generation and absorption. *Journal of Computational Physics*, 205(2):686–705, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000045>.

Collino:2006:CST

- [CFJ06] F. Collino, T. Fouquet, and P. Joly. Conservative space-time mesh refinement methods for the FDTD solution of Maxwell's equations. *Journal of Computational Physics*, 211(1):9–35, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001804>.

Cueto-Felgueroso:2009:ARS

- [CFJ09] Luis Cueto-Felgueroso and Ruben Juanes. Adaptive rational spectral methods for the linear stability analysis of nonlinear fourth-order problems. *Journal of Computational Physics*, 228(17):6536–6552, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003179>.

Chaniotis:2003:RSP

- [CFL⁺03] A. K. Chaniotis, C. E. Frouzakis, J. C. Lee, A. G. Tomboulides, D. Poulikakos, and K. Boulouchos. Remeshed smoothed particle hydrodynamics for the simulation of laminar chemically reactive flows. *Journal of Computational Physics*, 191(1):1–17, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003024>.

Ceniceros:2009:CFP

- [CFM09] Hector D. Ceniceros, Glenn H. Fredrickson, and George O. Mohler. Coupled flow-polymer dynamics via statistical field theory: Modeling and computation. *Journal of Computational Physics*, 228(5):1624–1638, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800586X>.

Cohen:2006:SHO

- [CFP06] G. Cohen, X. Ferrieres, and S. Pernet. A spatial high-order hexahedral discontinuous Galerkin method to solve Maxwell's equations in time domain. *Journal of Computational Physics*, 217(2):340–363, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000131>.

Cueto-Felgueroso:2008:TAF

- [CFP08] Luis Cueto-Felgueroso and Jaume Peraire. A time-adaptive finite volume method for the Cahn–Hilliard and Kuramoto–Sivashinsky equations. *Journal of Computational Physics*, 227(24):9985–10017, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999108003847>.

Calvo:2004:NMS

- [CFR04] M. Calvo, J. M. Franco, and L. Rández. A new minimum storage Runge–Kutta scheme for computational acoustics. *Journal of Computational Physics*, 201(1):1–12, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001913>.

Coulaud:2008:HPB

- [CFR08] O. Coulaud, P. Fortin, and J. Roman. High performance BLAS formulation of the multipole-to-local operator in the fast multipole method. *Journal of Computational Physics*, 227(3):1836–1862, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004354>.

Ceniceros:2009:ESR

- [CFR09] Hector D. Cenicerros, Jordan E. Fisher, and Alexandre M. Roma. Efficient solutions to robust, semi-implicit discretizations of the immersed boundary method. *Journal of Computational Physics*, 228(19):7137–7158, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002629>.

Cameron:2009:AAR

- [CFS09] M. K. Cameron, S. B. Fomel, and J. A. Sethian. Analysis and algorithms for a regularized Cauchy problem arising from a non-linear elliptic PDE for seismic velocity estimation. *Journal of Computational Physics*, 228(19):7388–7411, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003660>.

Cooper:2009:BBE

- [CGC⁺09] G. A. Cooper, J. P. Graves, W. A. Cooper, R. Gruber, and R. S. Peterson. BECOOL: Ballooning eigensolver with COOL finite elements. *Journal of Computational Physics*, 228(13):4911–4916, July 20, 2009. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001892>.

Chatzidai:2009:EMG

- [CGDT09] N. Chatzidai, A. Giannousakis, Y. Dimakopoulos, and J. Tsamopoulos. On the elliptic mesh generation in domains containing multiple inclusions and undergoing large deformations. *Journal of Computational Physics*, 228(6):1980–2011, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006128>.

Chen:2005:UAS

- [CGH05] Qian-Yong Chen, David Gottlieb, and Jan S. Hesthaven. Uncertainty analysis for the steady-state flows in a dual throat nozzle. *Journal of Computational Physics*, 204(1):378–398, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004218>.

Colella:2006:CGE

- [CGKM06] Phillip Colella, Daniel T. Graves, Benjamin J. Keen, and David Modiano. A Cartesian grid embedded boundary method for hyperbolic conservation laws. *Journal of Computational Physics*, 211(1):347–366, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002780>.

Cances:2006:CES

- [CGL06] Éric Cancès, Hervé Galicher, and Mathieu Lewin. Computing electronic structures: a new multiconfiguration approach for excited states. *Journal of Computational Physics*, 212(1):73–98, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003104>.

Carrillo:2008:SFP

- [CGL08] José-Antonio Carrillo, Thierry Goudon, and Pauline Lafitte. Simulation of fluid and particles flows: Asymptotic preserving schemes for bubbling and flowing regimes. *Journal of*

Computational Physics, 227(16):7929–7951, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002696>.

Crouch:2007:POF

- [CGM07] J. D. Crouch, A. Garbaruk, and D. Magidov. Predicting the onset of flow unsteadiness based on global instability. *Journal of Computational Physics*, 224(2):924–940, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005572>.

Carrillo:2003:WST

- [CGMS03] José A. Carrillo, Irene M. Gamba, Armando Majorana, and Chi-Wang Shu. A WENO-solver for the transients of Boltzmann–Poisson system for semiconductor devices: performance and comparisons with Monte Carlo methods. *Journal of Computational Physics*, 184(2):498–525, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000323>.

Carrillo:2006:SDS

- [CGMS06] José A. Carrillo, Irene M. Gamba, Armando Majorana, and Chi-Wang Shu. 2D semiconductor device simulations by WENO-boltzmann schemes: Efficiency, boundary conditions and comparison to Monte Carlo methods. *Journal of Computational Physics*, 214(1):55–80, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004237>.

Cavalli:2007:SEB

- [CGN⁺07] F. Cavalli, A. Gamba, G. Naldi, M. Semplice, D. Valdembrì, and G. Serini. 3D simulations of early blood vessel formation. *Journal of Computational Physics*, 225(2):2283–2300, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001313>.

Chang:2002:AEF

- [CGP02] Wang Chang, Francis Giraldo, and Blair Perot. Analysis of an exact fractional step method. *Journal of Computational Physics*, 180(1):183–199, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970877>.

Cao:2005:MSS

- [CGP05] Yang Cao, Dan Gillespie, and Linda Petzold. Multiscale stochastic simulation algorithm with stochastic partial equilibrium assumption for chemically reacting systems. *Journal of Computational Physics*, 206(2):395–411, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005182>.

Castro:2004:NST

- [CGRGV⁺04] Manuel J. Castro, José A. García-Rodríguez, José M. González-Vida, Jorge Macías, Carlos Parés, and M. Elena Vázquez-Cendón. Numerical simulation of two-layer shallow water flows through channels with irregular geometry. *Journal of Computational Physics*, 195(1):202–235, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005278>.

Cabezón:2008:OPF

- [CGSR08] Rubén M. Cabezón, Domingo García-Senz, and Antonio Relaño. A one-parameter family of interpolating kernels for smoothed particle hydrodynamics studies. *Journal of Computational Physics*, 227(19):8523–8540, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003148>.

Cliffe:2000:PCF

- [CGSS00] K. A. Cliffe, I. G. Graham, R. Scheichl, and L. Stals. Parallel computation of flow in heterogeneous media modelled by mixed finite elements. *Journal of Computational Physics*, 164(2):258–282, November 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965938>.

Ceniceros:2001:EDA

- [CH01] Hector D. Cenicerros and Thomas Y. Hou. An efficient dynamically adaptive mesh for potentially singular solutions. *Journal of Computational Physics*, 172(2):609–639, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968445>.

Czarny:2008:BSF

- [CH08] Olivier Czarny and Guido Huysmans. Bézier surfaces and finite elements for MHD simulations. *Journal of Computational Physics*, 227(16):7423–7445, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002118>.

Chang:2007:DPF

- [Cha07a] Britton Chang. A deterministic photon free method to solve radiation transfer equations. *Journal of Computational Physics*, 222(1):71–85, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600307X>.

Chang:2007:ISI

- [Cha07b] Britton Chang. The incorporation of the semi-implicit linear equations into Newton’s method to solve radiation transfer equations. *Journal of Computational Physics*, 226(1):852–878, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002124>.

Chato:2009:PFM

- [Cha09] David J. Chato. Phase field modeling of liquid jets in low gravity. *Journal of Computational Physics*, 228(5):1521–1540, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005718>.

Chao:2009:MPM

- [CHB09] J. Chao, A. Haselbacher, and S. Balachandar. A massively parallel multi-block hybrid compact-WENO scheme for compressible flows. *Journal of Computational Physics*, 228(19):7473–7491, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003805>.

Christlieb:2004:KDF

- [CHBS04] Andrew J. Christlieb, W. Nicholas G. Hitchon, Iain D. Boyd, and Quanhua Sun. Kinetic description of flow past a microplate. *Journal of Computational Physics*, 195(2):508–527, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005667>.

Codina:2009:FMA

- [CHCOB09] Ramon Codina, Guillaume Houzeaux, Herbert Coppola-Owen, and Joan Baiges. The fixed-mesh ALE approach for the numerical approximation of flows in moving domains. *Journal of Computational Physics*, 228(5):1591–1611, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005846>.

Cheong:2000:ADF

- [Che00a] Hyeong-Bin Cheong. Application of double Fourier series to the shallow-water equations on a sphere. *Journal of Computational Physics*, 165(1):261–287, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966154>.

Cheong:2000:DFS

- [Che00b] Hyeong-Bin Cheong. Double Fourier series on a sphere: Applications to elliptic and vorticity equations. *Journal of Computational Physics*, 157(1):327–349, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963854>.

Chen:2003:FSC

- [Che03] XinJian Chen. A free-surface correction method for simulating shallow water flows. *Journal of Computational Physics*, 189(2):557–578, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002341>.

Chen:2004:CMF

- [Che04] XinJian Chen. A Cartesian method for fitting the bathymetry and tracking the dynamic position of the shoreline in a three-dimensional, hydrodynamic model. *Journal of Computational Physics*, 200(2):749–768, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001871>.

Cheng:2007:ELS

- [Che07] Li-Tien Cheng. Efficient level set methods for constructing wavefronts in three spatial dimensions. *Journal of Computational Physics*, 226(2):2250–2270, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003117>.

Chevaugon:2007:ONP

- [CHG⁺07] Nicolas Chevaugon, Koen Hillewaert, Xavier Gallez, Paul Ploumhans, and Jean-François Remacle. Optimal numerical parameterization of discontinuous Galerkin method applied to wave propagation problems. *Journal of Computational Physics*, 223(1):188–207, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004323>.

Calabrese:2006:NSF

- [CHH06] G. Calabrese, I. Hinder, and S. Husa. Numerical stability for finite difference approximations of Einstein’s equations. *Journal of Computational Physics*, 218(2):607–634, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001239>.

Camassa:2006:IIA

- [CHL06a] Roberto Camassa, Jingfang Huang, and Long Lee. Integral and integrable algorithms for a nonlinear shallow-water wave equation. *Journal of Computational Physics*, 216(2):547–572, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005644>.

Cheng:2006:AFS

- [CHL06b] Hongwei Cheng, Jingfang Huang, and Terry Jo Leiterman. An adaptive fast solver for the modified Helmholtz equation in two dimensions. *Journal of Computational Physics*, 211(2):616–637, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002901>.

Cao:2009:SES

- [CHL09] Yong Cao, Xiaoming He, and Tao Lü. A splitting extrapolation for solving nonlinear elliptic equations with d-quadratic finite elements. *Journal of Computational Physics*, 228(1):109–122, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004567>.

Castronovo:2008:MTC

- [CHM08] E. Castronovo, J. Harlim, and A. J. Majda. Mathematical test criteria for filtering complex systems: Plentiful observations. *Journal of Computational Physics*, 227(7):3678–3714, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005372>.

Chopp:2000:LSM

- [Cho00] D. L. Chopp. A level-set method for simulating island coarsening. *Journal of Computational Physics*, 162(1):104–122, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965276>.

Choblet:2005:MTC

- [Cho05] Gaël Choblet. Modelling thermal convection with large viscosity gradients in one block of the ‘cubed sphere’. *Journal of Computational Physics*, 205(1):269–291, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400467X>.

Cotter:2009:LSM

- [CHPR09] Colin J. Cotter, David A. Ham, Christopher C. Pain, and Sebastian Reich. LBB stability of a mixed Galerkin finite element pair for fluid flow simulations. *Journal of Computational Physics*, 228(2):336–348, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004816>.

Cao:2001:EIM

- [CHR01] Weiming Cao, Weizhang Huang, and Robert D. Russell. An error indicator monitor function for an r -adaptive finite-element method. *Journal of Computational Physics*, 170(2):871–892, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967701>.

Chrzanowska:2003:AGQ

- [Chr03] Agnieszka Chrzanowska. Application of Gaussian quadratures to density functional (df) theories of confined liquid crystals. *Journal of Computational Physics*, 191(1):265–281, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003164>.

Christensen:2004:HSA

- [Chr04] Michael Christensen. How to simulate anisotropic diffusion processes on curved surfaces. *Journal of Computational Physics*, 201(2):421–438, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002360>.

Chu:2009:DMM

- [Chu09] Kevin T. Chu. A direct matrix method for computing analytical Jacobians of discretized nonlinear integro-differential equations. *Journal of Computational Physics*, 228(15):5526–5538, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002289>.

Cho:2004:AMG

- [CJ04] Maenghyo Cho and Seongki Jun. r -adaptive mesh generation for shell finite element analysis. *Journal of Computational Physics*, 199(1):291–316, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000853>.

Ciarlet:2007:CGM

- [CJ07] Patrick Ciarlet, Jr. and Erell Jamelot. Continuous Galerkin methods for solving the time-dependent Maxwell equations in 3D geometries. *Journal of Computational Physics*, 226(1):1122–1135, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002240>.

Chen:2009:MKF

- [CJ09] Yibing Chen and Song Jiang. Modified kinetic flux vector splitting schemes for compressible flows. *Journal of Computational Physics*, 228(10):3582–3604, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900059X>.

Choi:2003:FAS

- [CJK⁺03] Yung-Sze Choi, Juha Javanainen, Israel Koltracht, Mar-
ijan Kostrun, Patrick J. McKenna, and Nataliya Savyt-
ska. A fast algorithm for the solution of the time-
independent Gross–Pitaevskii equation. *Journal of Com-
putational Physics*, 190(1):1–21, September 1, 2003. CO-
DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-
tronic). URL [http://www.sciencedirect.com/science/
article/pii/S0021999103002353](http://www.sciencedirect.com/science/article/pii/S0021999103002353).

Cai:2009:BMD

- [CJLS09] Jian-Feng Cai, Hui Ji, Chaoqiang Liu, and Zuowei Shen. Blind motion deblurring using multiple images. *Journal of Computational Physics*, 228(14):5057–5071, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001867>.

Clarisse:2004:GTM

- [CJR04] Jean-Marie Clarisse, Stéphane Jaouen, and Pierre-Arnaud Raviart. A Godunov-type method in Lagrangian coordinates for computing linearly-perturbed planar-symmetric flows of gas dynamics. *Journal of Computational Physics*, 198(1):80–105, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000208>.

Cai:2008:SGE

- [CJSS08] Wei Cai, Xia Ji, Jiguang Sun, and Sihong Shao. A Schwarz generalized eigen-oscillation spectral element method (GeSEM) for 2-D high frequency electromagnetic scattering in dispersive inhomogeneous media. *Journal of Computational Physics*, 227(23):9933–9954, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004324>.

Chacon:2003:HHM

- [CK03] L. Chacón and D. A. Knoll. A 2D high- β Hall MHD implicit nonlinear solver. *Journal of Computational Physics*, 188(2):573–592, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001931>.

Cornet:2007:NAC

- [CK07] Christophe Cornet and Dixon T. K. Kwok. A new algorithm for charge deposition for multiple-grid method for PIC simulations in r - z cylindrical coordinates. *Journal of Computational Physics*, 225(1):808–828, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000058>.

Chiavazzo:2008:QEG

- [CK08] Eliodoro Chiavazzo and Iliya V. Karlin. Quasi-equilibrium grid algorithm: Geometric construction for model reduction. *Journal of Computational Physics*, 227(11):5535–5560, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000971>.

Chacon:2002:INR

- [CKF02] L. Chacón, D. A. Knoll, and J. M. Finn. An implicit, nonlinear reduced resistive MHD solver. *Journal of Computational Physics*, 178(1):15–36, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970154>.

Cheong:2004:FSH

- [CKG04] Hyeong-Bin Cheong, In-Hyuk Kwon, and Tae-Young Goo. Further study on the high-order double-Fourier-series spectral filtering on a sphere. *Journal of Computational Physics*, 193(1):180–197, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004261>.

Cheong:2002:HOH

- [CKGL02] Hyeong-Bin Cheong, In-Hyuk Kwon, Tae-Young Goo, and Myeong-Joo Lee. High-order harmonic spectral filter with the double Fourier series on a sphere. *Journal of Computational Physics*, 177(2):313–335, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102969974>.

Chorin:2000:OPH

- [CKL00] Alexandre J. Chorin, Raz Kupferman, and Doron Levy. Optimal prediction for Hamiltonian partial differential equations. *Journal of Computational Physics*, 162(1):267–297, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965367>.

Chang:2005:CBL

- [CKLS05] Shu-Ming Chang, Yuen-Cheng Kuo, Wen-Wei Lin, and Shih-Feng Shieh. A continuation BSOR–Lanczos–Galerkin method for positive bound states of a multi-component Bose–Einstein condensate. *Journal of Computational Physics*, 210(2):439–458, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002287>.

Cui:2007:NMS

- [CkM07] Yanfen Cui and De kang Mao. Numerical method satisfying the first two conservation laws for the Korteweg–de Vries equation. *Journal of Computational Physics*, 227(1):376–399, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003373>.

Chang:2007:RDC

- [CKPW07] Paul Chang, Gwang-Soo Kim, Keith Promislow, and Brian Wetton. Reduced dimensional computational models of polymer electrolyte membrane fuel cell stacks. *Journal of Computational Physics*, 223(2):797–821, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600475X>.

Chae:2000:DIG

- [CKR00] Dongsuk Chae, Chongam Kim, and Oh-Hyun Rho. Development of an improved gas-kinetic BGK scheme for inviscid and viscous flows. *Journal of Computational Physics*, 158(1):1–27, February 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964008>. See comment [Xu01b] and reply [CKR01].

Chae:2001:RCD

- [CKR01] D. Chae, C. Kim, and O. H. Rho. Reply to comment on “Development of an Improved Gas-Kinetic BGK Scheme for Inviscid and Viscous Flows”. *Journal of Computational Physics*, 171(2):848–850, August 10, 2001. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968494>. See [CKR00, Xu01b].

Cottet:2000:VMS

- [CKS00] Georges-Henri Cottet, Petros Koumoutsakos, and Mohamed Lemine Ould Salihi. Vortex methods with spatially varying cores. *Journal of Computational Physics*, 162(1):164–185, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965318>.

Carpentieri:2007:ABA

- [CKvT07] G. Carpentieri, B. Koren, and M. J. L. van Tooren. Adjoint-based aerodynamic shape optimization on unstructured meshes. *Journal of Computational Physics*, 224(1):267–287, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000721>.

Calhoun:2000:CGF

- [CL00a] Donna Calhoun and Randall J. LeVeque. A Cartesian grid finite-volume method for the advection-diffusion equation in irregular geometries. *Journal of Computational Physics*, 157(1):143–180, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963696>.

Cooke:2000:ESD

- [CL00b] S. J. Cooke and B. Levush. Eigenmode solution of 2-D and 3-D electromagnetic cavities containing absorbing materials using the Jacobi–Davidson algorithm. *Journal of Computational Physics*, 157(1):350–370, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963866>.

Chalons:2001:HOE

- [CL01a] C. Chalons and P. G. LeFloch. High-order entropy-conservative schemes and kinetic relations for van der Waals fluids. *Journal of Computational Physics*, 168(1):184–206, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966907>.

Cheong:2001:GOD

- [CL01b] Cheolung Cheong and Soogab Lee. Grid-optimized dispersion-relation-preserving schemes on general geometries for computational aeroacoustics. *Journal of Computational Physics*, 174(1):248–276, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969049>.

Chertock:2001:PMD

- [CL01c] Alina Chertock and Doron Levy. Particle methods for dispersive equations. *Journal of Computational Physics*, 171(2):708–730, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968032>.

Constantinescu:2002:HAT

- [CL02] G. S. Constantinescu and S. K. Lele. A highly accurate technique for the treatment of flow equations at the polar axis in cylindrical coordinates using series expansions. *Journal of Computational Physics*, 183(1):165–186, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971871>.

Chen:2003:IMA

- [CL03a] Ren-Chuen Chen and Jinn-Liang Liu. An iterative method for adaptive finite element solutions of an energy transport model of semiconductor devices. *Journal of Computational Physics*, 189(2):579–606, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300247X>.

Colagrossi:2003:NSI

- [CL03b] Andrea Colagrossi and Maurizio Landrini. Numerical simulation of interfacial flows by smoothed particle hydrodynamics. *Journal of Computational Physics*, 191(2):448–475, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003243>.

Chen:2005:QCE

- [CL05] Ren-Chuen Chen and Jinn-Liang Liu. A quantum corrected energy-transport model for nanoscale semiconductor devices. *Journal of Computational Physics*, 204(1):131–156, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004115>.

Caramana:2006:CVD

- [CL06a] E. J. Caramana and R. Loubère. “Curl- q ”: a vorticity damping artificial viscosity for essentially irrotational Lagrangian hydrodynamics calculations. *Journal of Computational Physics*, 215(2):385–391, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005140>.

Chacon:2006:FIN

- [CL06b] L. Chacón and G. Lapenta. A fully implicit, nonlinear adaptive grid strategy. *Journal of Computational Physics*, 212(2):703–717, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003529>.

Chang:2007:RAA

- [CL07a] Chih-Hao Chang and Meng-Sing Liou. A robust and accurate approach to computing compressible multiphase flow: Stratified flow model and AUSM⁺-up scheme. *Journal of Computational Physics*, 225(1):840–873, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000071>. See erratum [CL08b].

Chilton:2007:DOF

- [CL07b] Ryan A. Chilton and Robert Lee. The discrete origin of FETD–Newmark late time instability, and a correction scheme. *Journal of Computational Physics*, 224(2):1293–1306, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005870>.

Camassa:2008:CIP

- [CL08a] Roberto Camassa and Long Lee. Complete integrable particle methods and the recurrence of initial states for a nonlinear shallow-water wave equation. *Journal of Computational Physics*, 227(15):7206–7221, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800209X>.

Chang:2008:ERA

- [CL08b] Chih-Hao Chang and Meng-Sing Liou. Erratum to “A robust and accurate approach to computing compressible multiphase flow: Stratified flow model and AUSM⁺-up scheme” [J. Comput. Phys. **225** (2007) 840–873]. *Journal of Computational Physics*, 227(10):5360, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800079X>. See [CL07a].

Chatelain:2008:ICI

- [CL08c] Philippe Chatelain and Anthony Leonard. Isotropic compact interpolation schemes for particle methods. *Journal of Computational Physics*, 227(6):3244–3259, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005293>.

Chen:2008:AMI

- [CL08d] Ren-Chuen Chen and Jinn-Liang Liu. An accelerated monotone iterative method for the quantum-corrected energy transport model. *Journal of Computational Physics*, 227(12):6226–6240, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001423>.

Cadiou:2008:ANA

- [CLB08] Anne Cadiou, Lionel Le Penven, and Marc Buffat. Asymptotic and numerical analysis of an inviscid bounded vortex flow at low Mach number. *Journal of Computational*

Physics, 227(18):8268–8289, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800291X>.

Clerc:2000:NSH

- [Cle00] S. Clerc. Numerical simulation of the homogeneous equilibrium model for two-phase flows. *Journal of Computational Physics*, 161(1):354–375, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096515X>.

Calhoun-Lopez:2007:EIF

- [CLG07] Marcus Calhoun-Lopez and Max D. Gunzburger. The efficient implementation of a finite element, multi-resolution viscosity method for hyperbolic conservation laws. *Journal of Computational Physics*, 225(2):1288–1313, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000423>.

Camarda:2007:KMC

- [CLL07a] Massimo Camarda, Antonino La Magna, and Francesco La Via. A kinetic Monte Carlo method on super-lattices for the study of the defect formation in the growth of close packed structures. *Journal of Computational Physics*, 227(2):1075–1093, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003786>.

Cheng:2007:QTS

- [CLL⁺07b] Candong Cheng, Joon-Ho Lee, Kim Hwa Lim, Hisham Z. Massoud, and Qing Huo Liu. 3D quantum transport solver based on the perfectly matched layer and spectral element methods for the simulation of semiconductor nanodevices. *Journal of Computational Physics*, 227(1):455–471, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003427>.

Carin:2009:CSM

- [CLLG09] Lawrence Carin, Dehong Liu, Wenbin Lin, and Bin Guo. Compressive sensing for multi-static scattering analysis. *Journal of Computational Physics*, 228(9):3464–3477, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000564>.

Castro:2008:WMT

- [CLMRP08] Manuel J. Castro, Philippe G. LeFloch, María Luz Muñoz-Ruiz, and Carlos Parés. Why many theories of shock waves are necessary: Convergence error in formally path-consistent schemes. *Journal of Computational Physics*, 227(17):8107–8129, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002842>.

Cockburn:2004:LDF

- [CLS04] Bernardo Cockburn, Fengyan Li, and Chi-Wang Shu. Locally divergence-free discontinuous Galerkin methods for the Maxwell equations. *Journal of Computational Physics*, 194(2):588–610, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004960>.

Chang:2005:GST

- [CLS05] Shu-Ming Chang, Wen-Wei Lin, and Shih-Feng Shieh. Gauss–Seidel-type methods for energy states of a multi-component Bose–Einstein condensate. *Journal of Computational Physics*, 202(1):367–390, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002906>.

Caffisch:2006:AMM

- [CLS⁺06] R. E. Caffisch, Y.-J. Lee, S. Shu, Y.-X. Xiao, and J. Xu. An application of multigrid methods for a discrete elastic model for epitaxial systems. *Journal of Computational Physics*, 219(2):697–714, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001999>.

Chiu:2009:DRP

- [CLS09a] P. H. Chiu, Long Lee, and Tony W. H. Sheu. A dispersion-relation-preserving algorithm for a nonlinear shallow-water wave equation. *Journal of Computational Physics*, 228 (21):8034–8052, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004100>.

Crouseilles:2009:PVS

- [CLS09b] Nicolas Crouseilles, Guillaume Latu, and Eric Sonnendrücker. A parallel Vlasov solver based on local cubic spline interpolation on patches. *Journal of Computational Physics*, 228 (5):1429–1446, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005652>.

Chen:2007:FMF

- [CLTA07] Chang-Ming Chen, F. Liu, I. Turner, and V. Anh. A Fourier method for the fractional diffusion equation describing sub-diffusion. *Journal of Computational Physics*, 227 (2):886–897, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002161>.

Cortez:2000:BPM

- [CM00] R. Cortez and M. Minion. The blob projection method for immersed boundary problems. *Journal of Computational Physics*, 161(2):428–453, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965021>.

Cox:2002:ETD

- [CM02] S. M. Cox and P. C. Matthews. Exponential time differencing for stiff systems. *Journal of Computational Physics*, 176(2):430–455, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102969950>.

Chow:2003:FSN

- [CM03] Fotini Katopodes Chow and Parviz Moin. A further study of numerical errors in large-eddy simulations. *Journal of Computational Physics*, 184(2):366–380, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000207>.

Cecil:2006:VAP

- [CM06] Thomas Cecil and Daniel E. Marthaler. A variational approach to path planning in three dimensions using level set methods. *Journal of Computational Physics*, 211(1):179–197, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002676>.

Chen:2009:NSS

- [CMG09] Han Chen, Chohong Min, and Frédéric Gibou. A numerical scheme for the Stefan problem on adaptive Cartesian grids with supralinear convergence rate. *Journal of Computational Physics*, 228(16):5803–5818, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002381>.

Chen:2001:LSM

- [CMK⁺01] Susan Chen, Barry Merriman, Myungjoo Kang, Russel E. Caflisch, Christian Ratsch, Li-Tien Cheng, Mark Gyure, Ronald P. Fedkiw, Christopher Anderson, and Stanley Osher. A level set method for thin film epitaxial growth. *Journal of Computational Physics*, 167(2):475–500, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966890>.

Cottet:2002:CSV

- [CMOV02] Georges-Henri Cottet, Bertrand Michaux, Sepand Ossia, and Geoffroy VanderLinden. A comparison of spectral and vortex methods in three-dimensional incompressible flows. *Journal of Computational Physics*, 175(2):702–712, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969633>.

Chester:2007:MTF

- [CMP07] Stuart Chester, Charles Meneveau, and Marc B. Parlange. Modeling turbulent flow over fractal trees with renormalized numerical simulation. *Journal of Computational Physics*, 225(1):427–448, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005997>.

Compere:2008:TAA

- [CMR08] Gaëtan Compère, Emilie Marchandise, and Jean-François Remacle. Transient adaptivity applied to two-phase incompressible flows. *Journal of Computational Physics*, 227(3):1923–1942, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004408>.

Cervone:2009:GPC

- [CMSZ09] A. Cervone, S. Manservigi, R. Scardovelli, and S. Zaleski. A geometrical predictor-corrector advection scheme and its application to the volume fraction function. *Journal of Computational Physics*, 228(2):406–419, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800497X>.

Chen:2005:TIF

- [CN05] Bang-Fuh Chen and Roger Nokes. Time-independent finite difference analysis of fully non-linear and viscous fluid sloshing in a rectangular tank. *Journal of Computational Physics*, 209(1):47–81, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001348>.

Chanrion:2008:PMC

- [CN08] O. Chanrion and T. Neubert. A PIC–MCC code for simulation of streamer propagation in air. *Journal of Computational Physics*, 227(15):7222–7245, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002210>.

Codina:2001:PSF

- [Cod01] Ramon Codina. Pressure stability in fractional step finite element methods for incompressible flows. *Journal of Computational Physics*, 170(1):112–140, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967257>.

Coelho:2002:BSH

- [Coe02] P. J. Coelho. Bounded skew high-order resolution schemes for the discrete ordinates method. *Journal of Computational Physics*, 175(2):412–437, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968998>.

Choi:2007:IBM

- [COER07] Jung-Il Choi, Roshan C. Oberoi, Jack R. Edwards, and Jacky A. Rosati. An immersed boundary method for complex incompressible flows. *Journal of Computational Physics*, 224(2):757–784, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005481>.

Cecil:2006:SFA

- [COQ06] Thomas C. Cecil, Stanley J. Osher, and Jianliang Qian. Simplex free adaptive tree fast sweeping and evolution methods for solving level set equations in arbitrary dimension. *Journal of Computational Physics*, 213(2):458–473, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003888>.

Cortez:2000:VIM

- [Cor00] Ricardo Cortez. A vortex/impulse method for immersed boundary motion in high Reynolds number flows. *Journal of Computational Physics*, 160(1):385–400, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096474X>.

Cohen:2008:MSI

- [COR08] David Cohen, Brynjulf Owren, and Xavier Raynaud. Multi-symplectic integration of the Camassa–Holm equation. *Journal of Computational Physics*, 227(11):5492–5512, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000855>.

Caliari:2009:MAC

- [CORT09] Marco Caliari, Alexander Ostermann, Stefan Rainer, and Mechthild Thalhammer. A minimisation approach for computing the ground state of Gross–Pitaevskii systems. *Journal of Computational Physics*, 228(2):349–360, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004828>.

Cecil:2004:NMM

- [COV04] Thomas Cecil, Stanley Osher, and Luminita Vese. Numerical methods for minimization problems constrained to S^1 and S^2 . *Journal of Computational Physics*, 198(2):567–579, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400052X>.

Campos:2000:HAF

- [CP00] Rafael G. Campos and L. O. Pimentel. Hydrogen atom in a finite linear space. *Journal of Computational Physics*, 160(1):179–194, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964465>.

Cao:2003:NIS

- [CP03a] Renfeng Cao and Stephen B. Pope. Numerical integration of stochastic differential equations: weak second-order mid-point scheme for application in the composition PDF method. *Journal of Computational Physics*, 185(1):194–212, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000542>.

Carcione:2003:EDS

- [CP03b] José M. Carcione and Flavio Poletto. Electric drill-string telemetry. *Journal of Computational Physics*, 186(2):596–609, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000858>.

Chen:2003:PMG

- [CP03c] Yang Chen and Scott E. Parker. A δf particle method for gyrokinetic simulations with kinetic electrons and electromagnetic perturbations. *Journal of Computational Physics*, 189(2):463–475, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002286>.

Chaniotis:2004:HOI

- [CP04a] A. K. Chaniotis and D. Poulikakos. High order interpolation and differentiation using B-splines. *Journal of Computational Physics*, 197(1):253–274, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006296>.

Chng:2004:CSE

- [CP04b] H. N. Ch'ng and J. Pan. Cubic spline elements for modelling microstructural evolution of materials controlled by solid-state diffusion and grain-boundary migration. *Journal of Computational Physics*, 196(2):724–750, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006144>.

Cottet:2004:ADN

- [CP04c] G.-H. Cottet and P. Poncet. Advances in direct numerical simulations of 3D wall-bounded flows by vortex-in-cell methods. *Journal of Computational Physics*, 193(1):136–158, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004248>.

Chng:2005:MME

- [CP05] H. N. Ch'ng and J. Pan. Modelling microstructural evolution of porous polycrystalline materials and a numerical study of anisotropic sintering. *Journal of Computational Physics*, 204(2):430–461, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004231>.

Cao:2006:ALM

- [CP06a] Yang Cao and Linda Petzold. Accuracy limitations and the measurement of errors in the stochastic simulation of chemically reacting systems. *Journal of Computational Physics*, 212(1):6–24, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003074>.

Chen:2006:PIEa

- [CP06b] Wenwu Chen and Bill Poirier. Parallel implementation of efficient preconditioned linear solver for grid-based applications in chemical physics. I: Block Jacobi diagonalization. *Journal of Computational Physics*, 219(1):185–197, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002154>.

Chen:2006:PIEb

- [CP06c] Wenwu Chen and Bill Poirier. Parallel implementation of efficient preconditioned linear solver for grid-based applications in chemical physics. II: QMR linear solver. *Journal of Computational Physics*, 219(1):198–209, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001471>.

Chen:2007:EGP

- [CP07] Yang Chen and Scott E. Parker. Electromagnetic gyrokinetic δf particle-in-cell turbulence simulation with realistic equilibrium profiles and geometry. *Journal of Computational Physics*, 220(2):839–855, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002634>.

Christov:2008:NNO

- [CP08] Ivan Christov and Bojan Popov. New non-oscillatory central schemes on unstructured triangulations for hyperbolic systems of conservation laws. *Journal of Computational Physics*, 227(11):5736–5757, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001071>.

Carcione:2004:DWS

- [CPG04] José M. Carcione, Flavio Poletto, and Davide Gei. 3-D wave simulation in anelastic media using the Kelvin–Voigt constitutive equation. *Journal of Computational Physics*, 196(1):282–297, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005977>.

Chaniotis:2002:RSP

- [CPK02] A. K. Chaniotis, D. Poulikakos, and P. Koumoutsakos. Remeshed smoothed particle hydrodynamics for the simulation of viscous and heat conducting flows. *Journal of Computational Physics*, 182(1):67–90, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971524>.

Celnik:2009:PCA

- [CPKW09] Matthew Celnik, Robert Patterson, Markus Kraft, and Wolfgang Wagner. A predictor-corrector algorithm for the coupling of stiff ODEs to a particle population balance. *Journal of Computational Physics*, 228(8):2758–2769, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006542>.

Coppa:2002:ICM

- [CPP02] Gianni G. M. Coppa, Fabio Peano, and Federico Peinetti. Image-charge method for contour dynamics in systems with cylindrical boundaries. *Journal of Computational Physics*, 182(2):392–417, November 1, 2002. CODEN

JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).
URL <http://www.sciencedirect.com/science/article/pii/S0021999102971743>.

Caboussat:2005:NSF

- [CPR05] A. Caboussat, M. Picasso, and J. Rappaz. Numerical simulation of free surface incompressible liquid flows surrounded by compressible gas. *Journal of Computational Physics*, 203(2):626–649, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003961>.

Cerne:2001:CIT

- [ČPT01] Gregor Černe, Stojan Petelin, and Iztok Tiselj. Coupling of the interface tracking and the two-fluid models for the simulation of incompressible two-phase flow. *Journal of Computational Physics*, 171(2):776–804, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196810X>.

Cecil:2004:NMH

- [CQO04] Tom Cecil, Jianliang Qian, and Stanley Osher. Numerical methods for high dimensional Hamilton–Jacobi equations using radial basis functions. *Journal of Computational Physics*, 196(1):327–347, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005990>.

Cockburn:2005:ASD

- [CQRW05] Bernardo Cockburn, Jianliang Qian, Fernando Reitich, and Jing Wang. An accurate spectral/discontinuous finite-element formulation of a phase-space-based level set approach to geometrical optics. *Journal of Computational Physics*, 208(1):175–195, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000914>.

Colin:2000:DHO

- [CR00] Olivier Colin and Michael Rudgyard. Development of high-order Taylor–Galerkin schemes for LES. *Journal of Computational Physics*, 162(2):338–371, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965380>.

Colonius:2002:SGS

- [CR02] Tim Colonius and Hongyu Ran. A super-grid-scale model for simulating compressible flow on unbounded domains. *Journal of Computational Physics*, 182(1):191–212, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971615>.

Ceniceros:2005:MPF

- [CR05] Hector D. Cenicerros and Alexandre M. Roma. A multi-phase flow method with a fast, geometry-based fluid indicator. *Journal of Computational Physics*, 205(2):391–400, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004759>.

Ceniceros:2007:NAM

- [CR07] Hector D. Cenicerros and Alexandre M. Roma. A nonstiff, adaptive mesh refinement-based method for the Cahn–Hilliard equation. *Journal of Computational Physics*, 225(2):1849–1862, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000903>.

Carpio:2008:DRU

- [CR08] Ana Carpio and María-Luisa Rapún. Domain reconstruction using photothermal techniques. *Journal of Computational Physics*, 227(17):8083–8106, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002830>.

Clain:2009:FSO

- [CR09] Stéphane Clain and David Rochette. First- and second-order finite volume methods for the one-dimensional non-

conservative Euler system. *Journal of Computational Physics*, 228(22):8214–8248, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004185>.

Cassiani:2007:EAS

- [CRAG07] M. Cassiani, A. Radicchi, J. D. Albertson, and U. Giostrea. An efficient algorithm for scalar PDF modelling in incompressible turbulent flow; numerical analysis with evaluation of IEM and IECM micro-mixing models. *Journal of Computational Physics*, 223(2):519–550, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004517>.

Caramana:2000:CES

- [CRB00] E. J. Caramana, C. L. Rousculp, and D. E. Burton. A compatible, energy and symmetry preserving Lagrangian hydrodynamics algorithm in three-dimensional Cartesian geometry. *Journal of Computational Physics*, 157(1):89–119, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963684>.

Cizmas:2008:ATR

- [CRB⁺08] Paul G. A. Cizmas, Brian R. Richardson, Thomas A. Brenner, Thomas J. O'Brien, and Ronald W. Breault. Acceleration techniques for reduced-order models based on proper orthogonal decomposition. *Journal of Computational Physics*, 227(16):7791–7812, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002647>.

Csik:2002:CFM

- [CRD02] Árpád Csík, Mario Ricchiuto, and Herman Deconinck. A conservative formulation of the multidimensional upwind residual distribution schemes for general nonlinear conservation laws. *Journal of Computational Physics*, 179(1):286–312, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970579>.

Ceniceros:2000:CAS

- [CS00] Hector D. Cenicerros and Helen Si. Computation of axisymmetric suction flow through porous media in the presence of surface tension. *Journal of Computational Physics*, 165(1):237–260, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966130>.

Campbell:2001:TAV

- [CS01a] J. C. Campbell and M. J. Shashkov. A tensor artificial viscosity using a mimetic finite difference algorithm. *Journal of Computational Physics*, 172(2):739–765, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968561>.

Cano:2001:USH

- [CS01b] B. Cano and A. M. Stuart. Underresolved simulations of heat baths. *Journal of Computational Physics*, 169(1):193–214, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967221>.

Carcione:2001:WSF

- [CS01c] José M. Carcione and Géza Seriani. Wave simulation in frozen porous media. *Journal of Computational Physics*, 170(2):676–695, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967567>.

Clouet:2003:HSM

- [CS03] J.-F. Clouët and G. Samba. A hybrid symbolic Monte-Carlo method for radiative transfer equations. *Journal of Computational Physics*, 188(1):139–156, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300158X>.

Clouet:2004:ADL

- [CS04] J.-F. Clouët and G. Samba. Asymptotic diffusion limit of the symbolic Monte-Carlo method for the transport equation.

Journal of Computational Physics, 195(1):293–319, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005333>.

Chalikov:2005:MEW

- [CS05] Dmitry Chalikov and Dmitry Sheinin. Modeling extreme waves based on equations of potential flow with a free surface. *Journal of Computational Physics*, 210(1):247–273, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002196>.

Chou:2006:HOR

- [CS06] Ching-Shan Chou and Chi-Wang Shu. High order residual distribution conservative finite difference WENO schemes for steady state problems on non-smooth meshes. *Journal of Computational Physics*, 214(2):698–724, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004699>.

Cheng:2007:HOE

- [CS07a] Juan Cheng and Chi-Wang Shu. A high order ENO conservative Lagrangian type scheme for the compressible Euler equations. *Journal of Computational Physics*, 227(2):1567–1596, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700424X>.

Cheng:2007:DGF

- [CS07b] Yingda Cheng and Chi-Wang Shu. A discontinuous Galerkin finite element method for directly solving the Hamilton–Jacobi equations. *Journal of Computational Physics*, 223(1):398–415, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004451>.

Chern:2007:CIM

- [CS07c] I-Liang Chern and Yu-Chen Shu. A coupling interface method for elliptic interface problems. *Journal of Compu-*

tational Physics, 225(2):2138–2174, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001246>.

Chou:2007:HOR

- [CS07d] Ching-Shan Chou and Chi-Wang Shu. High order residual distribution conservative finite difference WENO schemes for convection-diffusion steady state problems on non-smooth meshes. *Journal of Computational Physics*, 224(2):992–1020, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005638>.

Chen:2008:PPD

- [CS08a] Tianbing Chen and John Strain. Piecewise-polynomial discretization and Krylov-accelerated multigrid for elliptic interface problems. *Journal of Computational Physics*, 227(16):7503–7542, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002453>.

Cheng:2008:STE

- [CS08b] Yingda Cheng and Chi-Wang Shu. Superconvergence and time evolution of discontinuous Galerkin finite element solutions. *Journal of Computational Physics*, 227(22):9612–9627, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003835>.

Colella:2008:LPP

- [CS08c] Phillip Colella and Michael D. Sekora. A limiter for PPM that preserves accuracy at smooth extrema. *Journal of Computational Physics*, 227(15):7069–7076, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001435>.

Chiu:2009:DDR

- [CS09] P. H. Chiu and Tony W. H. Sheu. On the development of a dispersion-relation-preserving dual-compact upwind

scheme for convection-diffusion equation. *Journal of Computational Physics*, 228(10):3640–3655, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900062X>.

Carmichael:2008:PAQ

- [CSC⁺08] Gregory R. Carmichael, Adrian Sandu, Tianfeng Chai, Dacian N. Daescu, Emil M. Constantinescu, and Youhua Tang. Predicting air quality: Improvements through advanced methods to integrate models and measurements. *Journal of Computational Physics*, 227(7):3540–3571, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000836>.

Ciardi:2005:DFV

- [CSKD05] M. Ciardi, P. Sagaut, M. Klein, and W. N. Dawes. A dynamic finite volume scheme for large-eddy simulation on unstructured grids. *Journal of Computational Physics*, 210(2):632–655, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500255X>.

Chiu:2008:EEP

- [CSL08] P. H. Chiu, Tony W. H. Sheu, and R. K. Lin. An effective explicit pressure gradient scheme implemented in the two-level non-staggered grids for incompressible Navier–Stokes equations. *Journal of Computational Physics*, 227(8):4018–4037, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005591>.

Choi:2005:ECS

- [CSMH05] Yunseok Choi, Changsoo Shin, Dong-Joo Min, and Taeyoung Ha. Efficient calculation of the steepest descent direction for source-independent seismic waveform inversion: An amplitude approach. *Journal of Computational Physics*, 208(2):455–468, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001051>.

Cooke:2006:FIM

- [CSML06] S. J. Cooke, R. Shtokhamer, A. A. Mondelli, and B. Levush. A finite integration method for conformal, structured-grid, electromagnetic simulation. *Journal of Computational Physics*, 215(1):321–347, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004900>.

Chenoweth:2009:SAM

- [CSO09] Samuel K. M. Chenoweth, Julio Soria, and Andrew Ooi. A singularity-avoiding moving least squares scheme for two-dimensional unstructured meshes. *Journal of Computational Physics*, 228(15):5592–5619, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002320>.

Coppola:2001:NPT

- [CSP01] G. Coppola, S. J. Sherwin, and J. Peiró. Nonlinear particle tracking for high-order elements. *Journal of Computational Physics*, 172(1):356–386, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968299>.

Chen:2000:DSC

- [CSS00] Heli Chen, Yuhong Su, and Bernie D. Shizgal. A direct spectral collocation Poisson solver in polar and cylindrical coordinates. *Journal of Computational Physics*, 160(2):453–469, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964611>.

Coleman:2000:ECJ

- [CSV00] Thomas F. Coleman, Fadil Santosa, and Arun Verma. Efficient calculation of Jacobian and adjoint vector products in the wave propagational inverse problem using automatic differentiation. *Journal of Computational Physics*, 157(1):234–255, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963738>.

Chan:2004:LST

- [CT04] Tony F. Chan and Xue-Cheng Tai. Level set and total variation regularization for elliptic inverse problems with discontinuous coefficients. *Journal of Computational Physics*, 193(1):40–66, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004169>.

Codecasa:2007:CED

- [CT07] Lorenzo Codecasa and Francesco Trevisan. Constitutive equations for discrete electromagnetic problems over polyhedral grids. *Journal of Computational Physics*, 225(2):1894–1918, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000927>.

Castro:2008:SHO

- [CT08a] C. E. Castro and E. F. Toro. Solvers for the high-order Riemann problem for hyperbolic balance laws. *Journal of Computational Physics*, 227(4):2481–2513, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004780>.

Cheng:2008:RFT

- [CT08b] Li-Tien Cheng and Yen-Hsi Tsai. Redistancing by flow of time dependent eikonal equation. *Journal of Computational Physics*, 227(8):4002–4017, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700558X>.

Cada:2009:CTO

- [CT09] Miroslav Cada and Manuel Torrilhon. Compact third-order limiter functions for finite volume methods. *Journal of Computational Physics*, 228(11):4118–4145, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000953>.

Chance:2007:CVG

- [CTS07] M. S. Chance, A. D. Turnbull, and P. B. Snyder. Calculation of the vacuum Green's function valid even for high toroidal mode numbers in tokamaks. *Journal of Computational Physics*, 221(1):330–348, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002920>.

Chen:2008:SIP

- [CTT08] Qingshan Chen, Roger Temam, and Joseph J. Tribbia. Simulations of the 2.5D inviscid primitive equations in a limited domain. *Journal of Computational Physics*, 227(23):9865–9884, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004208>.

Cave:2008:IUS

- [CTW⁺08] H. M. Cave, K.-C. Tseng, J.-S. Wu, M. C. Jermy, J.-C. Huang, and S. P. Krumdieck. Implementation of unsteady sampling procedures for the parallel direct simulation Monte Carlo method. *Journal of Computational Physics*, 227(12):6249–6271, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800154X>.

Cui:2009:CFD

- [Cui09] Mingrong Cui. Compact finite difference method for the fractional diffusion equation. *Journal of Computational Physics*, 228(20):7792–7804, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004094>.

Cullen:2001:PTT

- [Cul01] Jason Cullen. Photon transport through plasmas with density and velocity structure. *Journal of Computational Physics*, 173(1):175–186, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968706>.

Chatterjee:2006:TAS

- [CV06] Abhijit Chatterjee and Dionisios G. Vlachos. Temporal acceleration of spatially distributed kinetic Monte Carlo simulations. *Journal of Computational Physics*, 211(2):596–615, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002895>.

Cartwright:2000:LIM

- [CVB00] K. L. Cartwright, J. P. Verboncoeur, and C. K. Birdsall. Loading and injection of Maxwellian distributions in particle simulations. *Journal of Computational Physics*, 162(2):483–513, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965495>.

Caleffi:2006:FOB

- [CVB06] V. Caleffi, A. Valiani, and A. Bernini. Fourth-order balanced source term treatment in central WENO schemes for shallow water equations. *Journal of Computational Physics*, 218(1):228–245, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000799>.

Crommelin:2006:FTC

- [CVE06] D. T. Crommelin and E. Vanden-Eijnden. Fitting time-series by continuous-time Markov chains: a quadratic programming approach. *Journal of Computational Physics*, 217(2):782–805, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000404>.

Candy:2003:EGM

- [CW03] J. Candy and R. E. Waltz. An Eulerian gyrokinetic-Maxwell solver. *Journal of Computational Physics*, 186(2):545–581, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000792>.

Cheng:2008:EAS

- [CW08] Mowei Cheng and James A. Warren. An efficient algorithm for solving the phase field crystal model. *Journal of Computational Physics*, 227(12):6241–6248, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001538>.

Cocle:2008:CVC

- [CWD08] Roger Cocle, Grégoire Winckelmans, and Goéric Daeninck. Combining the vortex-in-cell and parallel fast multipole methods for efficient domain decomposition simulations. *Journal of Computational Physics*, 227(21):9091–9120, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004482>.

Capolino:2007:ECG

- [CWJ07] F. Capolino, D. R. Wilton, and W. A. Johnson. Efficient computation of the 3D Green’s function for the Helmholtz operator for a linear array of point sources using the Ewald method. *Journal of Computational Physics*, 223(1):250–261, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004359>.

Chang:2008:NCL

- [CWL08] Qianshun Chang, Yau-Shu Wong, and Chi-Kun Lin. Numerical computations for long-wave short-wave interaction equations in semi-classical limit. *Journal of Computational Physics*, 227(19):8489–8507, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002854>.

Chang:2000:AST

- [CWT00] Sin-Chung Chang, Xiao-Yen Wang, and Wai-Ming To. Application of the space-time conservation element and solution element method to one-dimensional convection-diffusion problems. *Journal of Computational Physics*, 165(1):189–215, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999100966105>.

Canning:2000:PEP

- [CWWZ00] A. Canning, L. W. Wang, A. Williamson, and A. Zunger. Parallel empirical pseudopotential electronic structure calculations for million atom systems. *Journal of Computational Physics*, 160(1):29–41, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964404>.

Chen:2008:EMP

- [CWYM08] Qian-Yong Chen, Jing Wan, Yahan Yang, and Rick T. Mifflin. Enriched multi-point flux approximation for general grids. *Journal of Computational Physics*, 227(3):1701–1721, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004263>.

Chen:2008:SWM

- [CX08] Chungang Chen and Feng Xiao. Shallow water model on cubed-sphere by multi-moment finite volume method. *Journal of Computational Physics*, 227(10):5019–5044, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000570>.

Cai:2008:NFB

- [CXB08] Wei Cai, Zhenli Xu, and Andrij Baumketner. A new FFT-based algorithm to compute Born radii in the generalized Born theory of biomolecule solvation. *Journal of Computational Physics*, 227(24):10162–10177, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004488>.

Chen:2009:AIH

- [CXZ09] Zhiming Chen, Yuanming Xiao, and Linbo Zhang. The adaptive immersed interface finite element method for elliptic and Maxwell interface problems. *Journal of Computational Physics*, 228(14):5000–5019, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001612>.

Cai:2000:FCD

- [CY00] Wei Cai and Tiejun Yu. Fast calculations of dyadic Green's functions for electromagnetic scattering in a multilayered medium. *Journal of Computational Physics*, 165(1):1–21, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965835>.

Cockburn:2005:AMR

- [CY05] Bernardo Cockburn and Bayram Yenikaya. An adaptive method with rigorous error control for the Hamilton–Jacobi equations. Part II: The two-dimensional steady-state case. *Journal of Computational Physics*, 209(2):391–405, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001063>.

Choe:2001:NUS

- [CYKC01] Hee-Hwan Choe, N. S. Yoon, S. S. Kim, and Duk-In Choi. A new unconditionally stable algorithm for steady-state fluid simulation of high density plasma discharge. *Journal of Computational Physics*, 170(2):550–561, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967488>.

Chew:2006:GFD

- [CYS06] C. S. Chew, K. S. Yeo, and C. Shu. A generalized finite-difference (GFD) ALE scheme for incompressible flows around moving solid bodies on hybrid meshfree-Cartesian grids. *Journal of Computational Physics*, 218(2):510–548, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001173>.

Chisholm:2009:JFN

- [CZ09] Todd T. Chisholm and David W. Zingg. A Jacobian-free Newton–Krylov algorithm for compressible turbulent fluid flows. *Journal of Computational Physics*, 228(9):3490–3507, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000643>.

Crnjaric-Zic:2004:BFV

- [CZVS04] Nelida Crnjaric-Zic, Senka Vukovic, and Luka Sopta. Balanced finite volume WENO and central WENO schemes for the shallow water and the open-channel flow equations. *Journal of Computational Physics*, 200(2):512–548, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001780>.

deAbreu:2004:MSR

- [dA04] Marcos Pimenta de Abreu. Mixed singular-regular boundary conditions in multislabs radiation transport. *Journal of Computational Physics*, 197(1):167–185, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006247>.

Desideri:2007:NSA

- [DAJ07] Jean-Antoine Désidéri, Badr Abou El Majd, and Ales Janka. Nested and self-adaptive Bézier parameterizations for shape optimization. *Journal of Computational Physics*, 224(1):117–131, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006188>.

Daripa:2000:CSR

- [Dar00a] Prabir Daripa. A computational study of rising plane Taylor bubbles. *Journal of Computational Physics*, 157(1):120–142, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963660>.

Darve:2000:FMM

- [Dar00b] Eric Darve. The fast multipole method: Numerical implementation. *Journal of Computational Physics*, 160(1):195–240, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964519>.

Darrigrand:2002:CFM

- [Dar02] Eric Darrigrand. Coupling of fast multipole method and microlocal discretization for the 3-D Helmholtz equation. *Journal of Computational Physics*, 181(1):126–154, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970919>.

Dukowicz:2000:IRT

- [DB00] John K. Dukowicz and John R. Baumgardner. Incremental remapping as a transport/advection algorithm. *Journal of Computational Physics*, 160(1):318–335, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964659>.

Domenichini:2004:FNS

- [DB04] F. Domenichini and B. Baccani. A formulation of Navier–Stokes problem in cylindrical coordinates applied to the 3D entry jet in a duct. *Journal of Computational Physics*, 200(1):177–191, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001494>.

Dossou:2006:FEC

- [DBB06] Kokou Dossou, Michael A. Byrne, and Lindsay C. Botten. Finite element computation of grating scattering matrices and application to photonic crystal band calculations. *Journal of Computational Physics*, 219(1):120–143, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001434>.

Desjardins:2008:HOC

- [DBBP08] Olivier Desjardins, Guillaume Blanquart, Guillaume Balarac, and Heinz Pitsch. High order conservative finite difference scheme for variable density low Mach number turbulent flows. *Journal of Computational Physics*, 227(15):7125–7159, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001666>.

DeZaeytijd:2008:EHM

- [DBF08] J. De Zaeytijd, I. Bogaert, and A. Franchois. An efficient hybrid MLFMA–FFT solver for the volume integral equation in case of sparse 3D inhomogeneous dielectric scatterers. *Journal of Computational Physics*, 227(14):7052–7068, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800226X>.

Dworkin:2006:MCV

- [DBS06] S. B. Dworkin, B. A. V. Bennett, and M. D. Smooke. A mass-conserving vorticity-velocity formulation with application to nonreacting and reacting flows. *Journal of Computational Physics*, 215(2):430–447, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004961>.

Dumbser:2008:UFC

- [DBTM08] Michael Dumbser, Dinshaw S. Balsara, Eleuterio F. Toro, and Claus-Dieter Munz. A unified framework for the construction of one-step finite volume and discontinuous Galerkin schemes on unstructured meshes. *Journal of Computational Physics*, 227(18):8209–8253, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002829>.

Davies:2001:NVV

- [DC01] Christopher Davies and Peter W. Carpenter. A novel velocity-vorticity formulation of the Navier–Stokes equations with applications to boundary layer disturbance evolution. *Journal of Computational Physics*, 172(1):119–165, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968172>.

Dupuis:2002:LGM

- [DC02] Alexandre Dupuis and Bastien Chopard. Lattice gas modeling of scour formation under submarine pipelines. *Journal of Computational Physics*, 178(1):161–174, May 1, 2002.

CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970257>.

Deng:2007:EFM

- [DC07] Shaozhong Deng and Wei Cai. Extending the fast multipole method for charges inside a dielectric sphere in an ionic solvent: high-order image approximations for reaction fields. *Journal of Computational Physics*, 227(2):1246–1266, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003920>.

Dorini:2008:SMR

- [DC08] Fábio A. Dorini and M. Cristina C. Cunha. Statistical moments of the random linear transport equation. *Journal of Computational Physics*, 227(19):8541–8550, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003173>.

Delzanno:2008:ORE

- [DCF⁺08] G. L. Delzanno, L. Chacón, J. M. Finn, Y. Chung, and G. Lapenta. An optimal robust equidistribution method for two-dimensional grid adaptation based on Monge–Kantorovich optimization. *Journal of Computational Physics*, 227(23):9841–9864, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004105>.

Dupuis:2008:IBL

- [DCK08] Alexandre Dupuis, Philippe Chatelain, and Petros Koumoutsakos. An immersed boundary-lattice-Boltzmann method for the simulation of the flow past an impulsively started cylinder. *Journal of Computational Physics*, 227(9):4486–4498, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000247>.

del-Castillo-Negrete:2007:CMS

- [dCNHSD07] D. del Castillo-Negrete, S. P. Hirshman, D. A. Spong, and E. F. D’Azevedo. Compression of magnetohydrodynamic sim-

ulation data using singular value decomposition. *Journal of Computational Physics*, 222(1):265–286, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600355X>.

Daescu:2000:AIR

- [DCS00] Dacian Daescu, Gregory R. Carmichael, and Adrian Sandu. Adjoint implementation of Rosenbrock methods applied to variational data assimilation problems. *Journal of Computational Physics*, 165(2):496–510, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966221>.

DeSterck:2001:STD

- [DCV⁺01] H. De Sterck, A. Csík, D. Vanden Abeele, S. Poedts, and H. Deconinck. Stationary two-dimensional magnetohydrodynamic flows with shocks: Characteristic analysis and grid convergence study. *Journal of Computational Physics*, 166(1):28–62, January 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966403>.

Dufresne:2003:ESB

- [DD03a] L. Dufresne and G. Dumas. Erratum to “A spectral/B-spline method for the Navier–Stokes equations in unbounded domains” [J. Comp. Phys. **185** (2003) 532–548]. *Journal of Computational Physics*, 187(1):369, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000809>. See [DD03b].

Dufresne:2003:SBS

- [DD03b] L. Dufresne and G. Dumas. A spectral/B-spline method for the Navier–Stokes equations in unbounded domains. *Journal of Computational Physics*, 185(2):532–548, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000020>. See erratum [DD03a].

Delyon:2005:CEP

- [DD05] François Delyon and Michel Duneau. Computation of eigenmodes of photonic crystals by inversion of the Maxwell operator. *Journal of Computational Physics*, 207(1):375–387, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000331>.

Diosady:2009:PMD

- [DD09] Laslo T. Diosady and David L. Darmofal. Preconditioning methods for discontinuous Galerkin solutions of the Navier–Stokes equations. *Journal of Computational Physics*, 228(11):3917–3935, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000680>.

Dauger:2005:UST

- [DDD05] D. E. Dauger, V. K. Decyk, and J. M. Dawson. Using semiclassical trajectories for the time-evolution of interacting quantum-mechanical systems. *Journal of Computational Physics*, 209(2):559–581, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001877>.

Dowling:2007:MCT

- [DDDC07] Mark R. Dowling, Matthew J. Davis, Peter D. Drummond, and Joel F. Corney. Monte Carlo techniques for real-time quantum dynamics. *Journal of Computational Physics*, 220(2):549–567, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600249X>.

deDieuleveult:2009:GSS

- [dDEK09] C. de Dieuleveult, J. Erhel, and M. Kern. A global strategy for solving reactive transport equations. *Journal of Computational Physics*, 228(17):6395–6410, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002824>.

Davies:2001:AEA

- [DDF01] Penny J. Davies, Dugald B. Duncan, and Stefan A. Funken. Accurate and efficient algorithms for frequency domain scattering from a thin wire. *Journal of Computational Physics*, 168(1):155–183, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966889>.

Duclos:2009:HOR

- [DDFT09] Roland Duclos, Bruno Dubroca, Francis Filbet, and Vladimir Tikhonchuk. High order resolution of the Maxwell–Fokker–Planck–Landau model intended for ICF applications. *Journal of Computational Physics*, 228(14):5072–5100, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001879>.

Deang:2002:MCR

- [DDG02] Jennifer Deang, Qiang Du, and Max D. Gunzburger. Modeling and computation of random thermal fluctuations and material defects in the Ginzburg–Landau model for superconductivity. *Journal of Computational Physics*, 181(1):45–67, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971287>.

Doumic:2009:SLB

- [DDGS09] Marie Doumic, Frédéric Duboc, François Golse, and Rémi Sentis. Simulation of laser beam propagation with a paraxial model in a tilted frame. *Journal of Computational Physics*, 228(3):861–880, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005287>.

Ditkowski:2001:CCG

- [DDH01] A. Ditkowski, K. Dridi, and J. S. Hesthaven. Convergent Cartesian grid methods for Maxwell’s equations in complex geometries. *Journal of Computational Physics*, 170(1):39–80, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967191>.

Diamessis:2005:SMP

- [DDH05] P. J. Diamessis, J. A. Domaradzki, and J. S. Hesthaven. A spectral multidomain penalty method model for the simulation of high Reynolds number localized incompressible stratified turbulence. *Journal of Computational Physics*, 202(1):298–322, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002876>.

Darmana:2006:PEL

- [DDK06] D. Darmana, N. G. Deen, and J. A. M. Kuipers. Parallelization of an Euler–Lagrange model using mixed domain decomposition and a mirror domain technique: application to dispersed gas-liquid two-phase flow. *Journal of Computational Physics*, 220(1):216–248, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002294>.

Degond:2007:MIM

- [DDM07] Pierre Degond, Giacomo Dimarco, and Luc Mieussens. A moving interface method for dynamic kinetic-fluid coupling. *Journal of Computational Physics*, 227(2):1176–1208, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003890>.

Diwakar:2009:QSB

- [DDS09] S. V. Diwakar, Sarit K. Das, and T. Sundararajan. A quadratic spline based interface (QUASI) reconstruction algorithm for accurate tracking of two-phase flows. *Journal of Computational Physics*, 228(24):9107–9130, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004999>.

Degond:2009:APS

- [DDSV09] P. Degond, F. Deluzet, A. Sangam, and M.-H. Vignal. An asymptotic preserving scheme for the Euler equations in a strong magnetic field. *Journal of Computational Physics*, 228(10):3540–3558, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999109000035>.

deLaBourdonnaye:2000:HOS

- [de 00] Armel de La Bourdonnaye. High-order scheme for a non-linear Maxwell system modelling Kerr effect. *Journal of Computational Physics*, 160(2):500–521, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964684>.

DeVuyst:2004:SAH

- [De 04] Florian De Vuyst. Stable and accurate hybrid finite volume methods based on pure convexity arguments for hyperbolic systems of conservation law. *Journal of Computational Physics*, 193(2):426–468, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003747>.

Degond:2002:CSD

- [DE02] P. Degond and A. El Ayyadi. A coupled Schrödinger drift-diffusion model for quantum semiconductor device simulations. *Journal of Computational Physics*, 181(1):222–259, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971226>.

De:2006:ANH

- [DE06] A. K. De and V. Eswaran. Analysis of a new high resolution upwind compact scheme. *Journal of Computational Physics*, 218(1):398–416, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000908>.

Dehnen:2002:HFC

- [Deh02] Walter Dehnen. A hierarchical $O(N)$ force calculation algorithm. *Journal of Computational Physics*, 179(1):27–42, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970269>.

Dostert:2006:CGL

- [DEHL06] P. Dostert, Y. Efendiev, T. Y. Hou, and W. Luo. Coarse-gradient Langevin algorithms for dynamic data integration and uncertainty quantification. *Journal of Computational Physics*, 217(1):123–142, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001380>.

Dellar:2001:NMM

- [Del01] Paul J. Dellar. A note on magnetic monopoles and the one-dimensional MHD Riemann problem. *Journal of Computational Physics*, 172(1):392–398, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968159>.

Dellar:2002:LKS

- [Del02] Paul J. Dellar. Lattice kinetic schemes for magnetohydrodynamics. *Journal of Computational Physics*, 179(1):95–126, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970440>.

Dellacherie:2003:CWC

- [Del03a] Stéphane Dellacherie. Coupling of the Wang Chang–Uhlenbeck equations with the multispecies Euler system. *Journal of Computational Physics*, 189(1):239–276, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002109>.

Dellar:2003:ILL

- [Del03b] Paul J. Dellar. Incompressible limits of lattice Boltzmann equations using multiple relaxation times. *Journal of Computational Physics*, 190(2):351–370, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002791>.

Dellacherie:2007:NRP

- [Del07] Stéphane Dellacherie. Numerical resolution of a potential diphasic low Mach number system. *Journal of Com-*

putational Physics, 223(1):151–187, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004311>.

deMello:2002:HCS

- [deM02] J. C. deMello. Highly convergent simulations of transport dynamics in organic light-emitting diodes. *Journal of Computational Physics*, 181(2):564–576, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971421>.

Demir:2004:NMC

- [Dem04] Alper Demir. Non-Monte Carlo formulations and computational techniques for the stochastic non-linear Schrödinger equation. *Journal of Computational Physics*, 201(1):148–171, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002050>.

Deng:2007:NAT

- [Den07] Weihua Deng. Numerical algorithm for the time fractional Fokker–Planck equation. *Journal of Computational Physics*, 227(2):1510–1522, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004226>.

Dumbser:2008:FVS

- [DET08] Michael Dumbser, Cedric Enaux, and Eleuterio F. Toro. Finite volume schemes of very high order of accuracy for stiff hyperbolic balance laws. *Journal of Computational Physics*, 227(8):3971–4001, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005578>.

Dimas:2000:LWS

- [DF00a] Athanassios A. Dimas and Laurie T. Fialkowski. Large-wave simulation (LWS) of free-surface flows developing weak spilling breaking waves. *Journal of Computational*

Physics, 159(2):172–196, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096426X>.

Driscoll:2000:NNF

- [DF00b] Tobin A. Driscoll and Bengt Fornberg. Note on nonsymmetric finite differences for Maxwell’s equations. *Journal of Computational Physics*, 161(2):723–727, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965240>.

Dolejší:2004:SID

- [DF04] V. Dolejší and M. Feistauer. A semi-implicit discontinuous Galerkin finite element method for the numerical solution of inviscid compressible flow. *Journal of Computational Physics*, 198(2):727–746, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000609>.

Dubinkina:2007:SMA

- [DF07] Svetlana Dubinkina and Jason Frank. Statistical mechanics of Arakawa’s discretizations. *Journal of Computational Physics*, 227(2):1286–1305, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003944>.

Du:2006:SPF

- [DFG⁺06] Jian Du, Brian Fix, James Glimm, Xicheng Jia, Xiaolin Li, Yuanhua Li, and Lingling Wu. A simple package for front tracking. *Journal of Computational Physics*, 213(2):613–628, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003955>.

deFalco:2005:QCD

- [dFGLS05] Carlo de Falco, Emilio Gatti, Andrea L. Lacaita, and Riccardo Sacco. Quantum-corrected drift-diffusion models for transport in semiconductor devices. *Journal of Computational Physics*, 204(2):533–561, April 10, 2005. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004279>.

deFalco:2009:QCD

- [dFJS09] Carlo de Falco, Joseph W. Jerome, and Riccardo Sacco. Quantum-corrected drift-diffusion models: Solution fixed point map and finite element approximation. *Journal of Computational Physics*, 228(5):1770–1789, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005937>.

Djellouli:2001:FMS

- [DFT01] Rabia Djellouli, Charbel Farhat, and Radek Tezaur. A fast method for solving acoustic scattering problems in frequency bands. *Journal of Computational Physics*, 168(2):412–432, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967075>.

Desjardins:2008:QBM

- [DFV08] O. Desjardins, R. O. Fox, and P. Villedieu. A quadrature-based moment method for dilute fluid-particle flows. *Journal of Computational Physics*, 227(4):2514–2539, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004792>.

Ditkowski:2009:GRM

- [DG09] Adi Ditkowski and Nir Gavish. A grid redistribution method for singular problems. *Journal of Computational Physics*, 228(7):2354–2365, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800627X>.

Donev:2008:SED

- [DGA08] Aleksandar Donev, Alejandro L. Garcia, and Berni J. Alder. Stochastic event-driven molecular dynamics. *Journal of Computational Physics*, 227(4):2644–2665, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004962>.

Das:2009:PCR

- [DGF09] Sonjoy Das, Roger Ghanem, and Steven Finette. Polynomial chaos representation of spatio-temporal random fields from experimental measurements. *Journal of Computational Physics*, 228(23):8726–8751, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004677>.

Dorr:2002:SLP

- [DGH02] Milo R. Dorr, F. Xabier Garaizar, and Jeffrey A. F. Hittinger. Simulation of laser plasma filamentation using adaptive mesh refinement. *Journal of Computational Physics*, 177(2):233–263, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969852>.

Deng:2008:UMC

- [DGH08] Weibing Deng, Ji Gu, and Jianmin Huang. Upscaling methods for a class of convection-diffusion equations with highly oscillating coefficients. *Journal of Computational Physics*, 227(16):7621–7642, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002507>.

Don:2003:MSM

- [DGJ03] Wai-Sun Don, David Gottlieb, and Jae-Hun Jung. A multidomain spectral method for supersonic reactive flows. *Journal of Computational Physics*, 192(1):325–354, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003978>.

Degond:2007:EQD

- [DGM07] Pierre Degond, Samy Gallego, and Florian Méhats. An entropic quantum drift-diffusion model for electron transport in resonant tunneling diodes. *Journal of Computational Physics*, 221(1):226–249, January 20, 2007. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002865>.

Diaz-Goano:2003:FDF

- [DGMN03] C. Diaz-Goano, P. D. Minev, and K. Nandakumar. A fictitious domain/finite element method for particulate flows. *Journal of Computational Physics*, 192(1):105–123, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003498>.

Dobson:2000:EMB

- [DGP00] David C. Dobson, Jayadeep Gopalakrishnan, and Joseph E. Pasciak. An efficient method for band structure calculations in 3D photonic crystals. *Journal of Computational Physics*, 161(2):668–679, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965215>.

Domingues:2008:AMS

- [DGRS08] Margarete O. Domingues, Sônia M. Gomes, Olivier Roussel, and Kai Schneider. An adaptive multiresolution scheme with local time stepping for evolutionary PDEs. *Journal of Computational Physics*, 227(8):3758–3780, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005219>.

Darve:2004:EFM

- [DH04] Eric Darve and Pascal Havé. Efficient fast multipole method for low-frequency scattering. *Journal of Computational Physics*, 197(1):341–363, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006326>.

Dohnal:2007:PML

- [DH07] Tomás Dohnal and Thomas Hagstrom. Perfectly matched layers in photonics computations: 1D and 2D nonlinear coupled mode equations. *Journal of Computational*

Physics, 223(2):690–710, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004694>.

Denton:2009:SBC

- [DH09] R. E. Denton and Y. Hu. Symmetry boundary conditions. *Journal of Computational Physics*, 228(13):4823–4835, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001673>.

Dorband:2003:SHS

- [DHM03] Ernst Nils Dorband, Marc Hemsendorf, and David Merritt. Systolic and hyper-systolic algorithms for the gravitational N -body problem, with an application to Brownian motion. *Journal of Computational Physics*, 185(2):484–511, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000670>.

Doom:2007:NMD

- [DHM07] Jeff Doom, Yucheng Hou, and Krishnan Mahesh. A numerical method for DNS/LES of turbulent reacting flows. *Journal of Computational Physics*, 226(1):1136–1151, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002252>.

Damanik:2009:MFM

- [DHOT09] H. Damanik, J. Hron, A. Ouazzi, and S. Turek. A monolithic FEM-multigrid solver for non-isothermal incompressible flow on general meshes. *Journal of Computational Physics*, 228(10):3869–3881, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000941>.

deHoop:2007:WEC

- [dHRvdB07] Adrianus T. de Hoop, Robert F. Remis, and Peter M. van den Berg. The 3D wave equation and its Cartesian coordinate stretched perfectly matched embedding — a time-domain

Green's function performance analysis. *Journal of Computational Physics*, 221(1):88–105, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002762>.

Durbin:2002:ALR

- [DI02] P. A. Durbin and G. Iaccarino. An approach to local refinement of structured grids. *Journal of Computational Physics*, 181(2):639–653, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971470>.

Doostan:2009:LSA

- [DI09] Alireza Doostan and Gianluca Iaccarino. A least-squares approximation of partial differential equations with high-dimensional random inputs. *Journal of Computational Physics*, 228(12):4332–4345, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001144>.

Dickinson:2008:DMS

- [Dic08] Robert E. Dickinson. Determination of the multi-scattered solar radiation from a leaf canopy for use in climate models. *Journal of Computational Physics*, 227(7):3667–3677, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005608>.

Deng:2003:TDE

- [DIL03] Shaozhong Deng, Kazufumi Ito, and Zhilin Li. Three-dimensional elliptic solvers for interface problems and applications. *Journal of Computational Physics*, 184(1):215–243, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000281>.

Dimitrakopoulos:2007:IDS

- [Dim07] P. Dimitrakopoulos. Interfacial dynamics in Stokes flow via a three-dimensional fully-implicit interfacial spectral boundary element algorithm. *Journal of Computational*

Physics, 225(1):408–426, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005985>.

Drikakis:2000:AMF

- [DIV00] D. Drikakis, O. P. Iliev, and D. P. Vassileva. Acceleration of multigrid flow computations through dynamic adaptation of the smoothing procedure. *Journal of Computational Physics*, 165(2):566–591, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966336>.

Du:2004:NSQ

- [DJ04] Qiang Du and Lili Ju. Numerical simulations of the quantized vortices on a thin superconducting hollow sphere. *Journal of Computational Physics*, 201(2):511–530, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002402>.

Degond:2005:STM

- [DJM05] Pierre Degond, Shi Jin, and Luc Mieussens. A smooth transition model between kinetic and hydrodynamic equations. *Journal of Computational Physics*, 209(2):665–694, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001932>.

Dubois:2005:MSS

- [DJTT05] T. Dubois, F. Jauberteau, R. M. Temam, and J. Tribbia. Multilevel schemes for the shallow water equations. *Journal of Computational Physics*, 207(2):660–694, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500046X>.

Diez:2002:CTD

- [DK02a] Javier A. Diez and L. Kondic. Computing three-dimensional thin film flows including contact lines. *Journal of Computational Physics*, 183(1):274–306, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971974>.

Dubroca:2002:HMC

- [DK02b] B. Dubroca and A. Klar. Half-moment closure for radiative transfer equations. *Journal of Computational Physics*, 180(2):584–596, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971068>.

Deconinck:2006:CSL

- [DK06] Bernard Deconinck and J. Nathan Kutz. Computing spectra of linear operators using the Floquet–Fourier–Hill method. *Journal of Computational Physics*, 219(1):296–321, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001665>.

Dumbser:2007:AHO

- [DK07] Michael Dumbser and Martin Käser. Arbitrary high order non-oscillatory finite volume schemes on unstructured meshes for linear hyperbolic systems. *Journal of Computational Physics*, 221(2):693–723, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003123>.

Dedner:2002:HDC

- [DKK⁺02] A. Dedner, F. Kemm, D. Kröner, C.-D. Munz, T. Schnitzer, and M. Wesenberg. Hyperbolic divergence cleaning for the MHD equations. *Journal of Computational Physics*, 175(2):645–673, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196961X>.

DiGSigalotti:2003:SST

- [DKS⁺03] Leonardo Di G. Sigalotti, Jaime Klapp, Eloy Sira, Yamin Meleán, and Anwar Hasmy. SPH simulations of time-dependent Poiseuille flow at low Reynolds numbers. *Journal of Computational Physics*, 191(2):622–638, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003437>.

Dedner:2001:TBC

- [DKSW01] A. Dedner, D. Kröner, I. L. Sofronov, and M. Wenberg. Transparent boundary conditions for MHD simulations in stratified atmospheres. *Journal of Computational Physics*, 171(2):448–478, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967798>.

Dumbser:2007:QFN

- [DKTT07] Michael Dumbser, Martin Käser, Vladimir A. Titarev, and Eleuterio F. Toro. Quadrature-free non-oscillatory finite volume schemes on unstructured meshes for nonlinear hyperbolic systems. *Journal of Computational Physics*, 226(1):204–243, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001520>.

Deeba:2000:ASB

- [DKX00] Elias Deeba, S. A. Khuri, and Shishen Xie. An algorithm for solving boundary value problems. *Journal of Computational Physics*, 159(2):125–138, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964520>. See erratum [DKX01].

Deeba:2001:EAS

- [DKX01] Elias Deeba, S. A. Khuri, and Shishen Xie. Erratum: “An Algorithm for Solving Boundary Value Problems”: Volume 159, Number 2 (2000), pages 125–138. *Journal of Computational Physics*, 170(1):448, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968317>. See [DKX00].

Densmore:2003:VVR

- [DL03a] Jeffery D. Densmore and Edward W. Larsen. Variational variance reduction for particle transport eigenvalue calculations

using Monte Carlo adjoint simulation. *Journal of Computational Physics*, 192(2):387–405, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003991>.

Dupont:2003:BFE

- [DL03b] Todd F. Dupont and Yingjie Liu. Back and forth error compensation and correction methods for removing errors induced by uneven gradients of the level set function. *Journal of Computational Physics*, 190(1):311–324, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002766>.

Densmore:2004:AED

- [DL04] Jeffery D. Densmore and Edward W. Larsen. Asymptotic equilibrium diffusion analysis of time-dependent Monte Carlo methods for grey radiative transfer. *Journal of Computational Physics*, 199(1):175–204, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000816>.

DiGSigalotti:2006:SCS

- [DLD⁺06] Leonardo Di G. Sigalotti, Hender López, Arnaldo Donoso, Eloy Sira, and Jaime Klapp. A shock-capturing SPH scheme based on adaptive kernel estimation. *Journal of Computational Physics*, 212(1):124–149, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500313X>.

Diamessis:2008:ENV

- [DLD08] P. J. Diamessis, Y. C. Lin, and J. A. Domaradzki. Effective numerical viscosity in spectral multidomain penalty method-based simulations of localized turbulence. *Journal of Computational Physics*, 227(17):8145–8164, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002891>.

Marcos:2002:DDP

- [dlFMBdlFM02] Carlos de la Fuente Marcos, Pierre Barge, and Raúl de la Fuente Marcos. Dust dynamics in protoplanetary disks: Parallel computing with PVM. *Journal of Computational Physics*, 176(2):276–294, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969785>.

Dong:2004:SDL

- [DLMK04] Suchuan Dong, Dong Liu, Martin R. Maxey, and George Em Karniadakis. Spectral distributed Lagrange multiplier method: algorithm and benchmark tests. *Journal of Computational Physics*, 195(2):695–717, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005795>.

Dolean:2008:DDM

- [DLP08] Victorita Dolean, Stéphane Lanteri, and Ronan Perrussel. A domain decomposition method for solving the three-dimensional time-harmonic Maxwell equations discretized by discontinuous Galerkin methods. *Journal of Computational Physics*, 227(3):2044–2072, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004469>.

Ducros:2000:HOF

- [DLS⁺00] F. Ducros, F. Laporte, T. Soulères, V. Guinot, P. Moinat, and B. Caruelle. High-order fluxes for conservative skew-symmetric-like schemes in structured meshes: Application to compressible flows. *Journal of Computational Physics*, 161(1):114–139, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964921>.

DiGSigalotti:2009:ASM

- [DLT09] Leonardo Di G. Sigalotti, Hender López, and Leonardo Trujillo. An adaptive SPH method for strong shocks. *Journal of Computational Physics*, 228(16):5888–5907, September 1,

2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002423>.

Du:2004:PFA

- [DLW04] Qiang Du, Chun Liu, and Xiaoqiang Wang. A phase field approach in the numerical study of the elastic bending energy for vesicle membranes. *Journal of Computational Physics*, 198(2):450–468, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000373>.

Du:2006:SDV

- [DLW06] Qiang Du, Chun Liu, and Xiaoqiang Wang. Simulating the deformation of vesicle membranes under elastic bending energy in three dimensions. *Journal of Computational Physics*, 212(2):757–777, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003566>.

Dance:2003:ILE

- [DM03] S. L. Dance and M. R. Maxey. Incorporation of lubrication effects into the force-coupling method for particulate two-phase flow. *Journal of Computational Physics*, 189(1):212–238, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002092>.

Daffin:2005:EDF

- [DMBS05] Frank Daffin, Michael Scott McKinley, Eugene D. Brooks III, and Abraham Szöke. An evaluation of the difference formulation for photon transport in a two level system. *Journal of Computational Physics*, 204(1):27–45, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400405X>.

Darmofal:2000:EAB

- [DMG00] David L. Darmofal, Pierre Moinier, and Michael B. Giles. Eigenmode analysis of boundary conditions for the one-dimensional preconditioned Euler equations. *Journal of*

Computational Physics, 160(1):369–384, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964726>.

Dumbser:2004:MSA

- [DMG04] Michael Dumbser, Jean-Marc Moschetta, and Jérémie Gressier. A matrix stability analysis of the carbuncle phenomenon. *Journal of Computational Physics*, 197(2):647–670, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006570>.

D’Avino:2007:NMS

- [DMHP07] G. D’Avino, P. L. Maffettone, M. A. Hulsen, and G. W. M. Peters. A numerical method for simulating concentrated rigid particle suspensions in an elongational flow using a fixed grid. *Journal of Computational Physics*, 226(1):688–711, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002021>.

Desjardins:2008:ACL

- [DMP08] Olivier Desjardins, Vincent Moureau, and Heinz Pitsch. An accurate conservative level set/ghost fluid method for simulating turbulent atomization. *Journal of Computational Physics*, 227(18):8395–8416, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003112>.

Deconinck:2009:DJH

- [DMR09] T. Deconinck, S. Mahadevan, and L. L. Raja. Discretization of the Joule heating term for plasma discharge fluid models in unstructured meshes. *Journal of Computational Physics*, 228(12):4435–4443, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001351>.

Dragojlovic:2006:EBM

- [DND06] Zoran Dragojlovic, Farrokh Najmabadi, and Marcus Day. An embedded boundary method for viscous, conducting com-

pressible flow. *Journal of Computational Physics*, 216(1):37–51, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005413>.

Desroziers:2008:SLP

- [DNS08] S. Desroziers, F. Nataf, and R. Sentis. Simulation of laser propagation in a plasma with a frequency wave equation. *Journal of Computational Physics*, 227(4):2610–2625, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004846>.

deNiet:2007:TSB

- [dNWvSD07] Arie de Niet, Fred Wubs, Arjen Terwisscha van Scheltinga, and Henk A. Dijkstra. A tailored solver for bifurcation analysis of ocean-climate models. *Journal of Computational Physics*, 227(1):654–679, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003518>. See corrigendum [dTWD09].

Dohnal:2009:PML

- [Doh09] Tomás Dohnal. Perfectly matched layers for coupled non-linear Schrödinger equations with mixed derivatives. *Journal of Computational Physics*, 228(23):8752–8765, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004689>.

Domenichini:2008:CDF

- [Dom08] Federico Domenichini. On the consistency of the direct forcing method in the fractional step solution of the Navier–Stokes equations. *Journal of Computational Physics*, 227(12):6372–6384, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001617>.

Duponcheel:2008:TRE

- [DOW08] M. Duponcheel, P. Orlandi, and G. Winckelmans. Time-reversibility of the Euler equations as a benchmark for energy conserving schemes. *Journal of Computational*

Physics, 227(19):8736–8752, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003422>.

Dijkstra:2001:FIM

- [DOWB01] Henk A. Dijkstra, Hakan Oksuzoğlu, Fred. W. Wubs, and Eugen F. F. Botta. A fully implicit model of the three-dimensional thermohaline ocean circulation. *Journal of Computational Physics*, 173(2):685–715, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969086>.

Derickson:2000:PSB

- [DP00] Russell G. Derickson and Roger A. Pielke, Sr. A preliminary study of the Burgers equation with symbolic computation. *Journal of Computational Physics*, 162(1):219–244, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965331>.

Deledicque:2007:ERS

- [DP07] Vincent Deledicque and Miltiadis V. Papalexandris. An exact Riemann solver for compressible two-phase flow models containing non-conservative products. *Journal of Computational Physics*, 222(1):217–245, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003524>.

Deledicque:2008:CAC

- [DP08] Vincent Deledicque and Miltiadis V. Papalexandris. A conservative approximation to compressible two-phase flow models in the stiff mechanical relaxation limit. *Journal of Computational Physics*, 227(21):9241–9270, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700561X>.

Desjardins:2009:SRI

- [DP09] Olivier Desjardins and Heinz Pitsch. A spectrally refined interface approach for simulating multiphase flows. *Jour-*

nal of Computational Physics, 228(5):1658–1677, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005883>.

Dendy:2002:GPF

- [DPCV02] E. D. Dendy, N. T. Padial-Collins, and W. B. VanderHeyden. A general-purpose finite-volume advection scheme for continuous and discontinuous fields on unstructured grids. *Journal of Computational Physics*, 180(2):559–583, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971056>.

Deng:2000:ALB

- [DPR00] Yuefan Deng, Ronald F. Peierls, and Carlos Rivera. An adaptive load balancing method for parallel molecular dynamics simulations. *Journal of Computational Physics*, 161(1):250–263, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096501X>.

DePalma:2005:SOA

- [DPRN05] P. De Palma, G. Pascazio, G. Rossiello, and M. Napolitano. A second-order-accurate monotone implicit fluctuation splitting scheme for unsteady problems. *Journal of Computational Physics*, 208(1):1–33, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400484X>.

DePalma:2006:RDS

- [DPRN06] P. De Palma, G. Pascazio, D. T. Rubino, and M. Napolitano. Residual distribution schemes for advection and advection-diffusion problems on quadrilateral cells. *Journal of Computational Physics*, 218(1):159–199, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000775>.

Dolcetta:2001:UHM

- [DPRS01] R. Capuzzo Dolcetta, N. Pucello, V. Rosato, and F. Saraceni. On the use of a heterogeneous MIMD–SIMD platform to simulate the dynamics of globular clusters with a central massive object. *Journal of Computational Physics*, 174(1):208–225, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969025>.

Dreyer:2004:KFV

- [DQ04] Wolfgang Dreyer and Shamsul Qamar. Kinetic flux-vector splitting schemes for the hyperbolic heat conduction. *Journal of Computational Physics*, 198(2):403–423, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400035X>.

Do-Quang:2008:SFD

- [DQA08] Minh Do-Quang and Gustav Amberg. Simulation of free dendritic crystal growth in a gravity environment. *Journal of Computational Physics*, 227(3):1772–1789, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004317>.

Degerfeldt:2006:BTF

- [DR06] D. Degerfeldt and T. Rylander. A brick-tetrahedron finite-element interface with stable hybrid explicit-implicit time-stepping for Maxwell’s equations. *Journal of Computational Physics*, 220(1):383–393, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002464>.

Deparis:2009:RBM

- [DR09a] Simone Deparis and Gianluigi Rozza. Reduced basis method for multi-parameter-dependent steady Navier–Stokes equations: Applications to natural convection in a cavity. *Journal of Computational Physics*, 228(12):4359–4378, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001284>.

Duan:2009:HOQ

- [DR09b] Ran Duan and Vladimir Rokhlin. High-order quadratures for the solution of scattering problems in two dimensions. *Journal of Computational Physics*, 228(6):2152–2174, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006220>.

Driscoll:2002:CRK

- [Dri02] Tobin A. Driscoll. A composite Runge–Kutta method for the spectral solution of semilinear PDEs. *Journal of Computational Physics*, 182(2):357–367, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971275>.

Drikakis:2001:SVS

- [DS01] Dimitris Drikakis and Piotr K. Smolarkiewicz. On spurious vortical structures. *Journal of Computational Physics*, 172(1):309–325, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968251>.

Dai:2005:ATM

- [DS05a] Meizhong Dai and David P. Schmidt. Adaptive tetrahedral meshing in free-surface flow. *Journal of Computational Physics*, 208(1):228–252, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001075>.

Diaz:2005:NMR

- [DS05b] Rodolfo E. Diaz and Igor Scherbatko. A new multi-stack radiation boundary condition for FDTD based on self-teleportation of fields. *Journal of Computational Physics*, 203(1):176–190, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003237>.

Ding:2006:SAA

- [DS06a] H. Ding and C. Shu. A stencil adaptive algorithm for finite difference solution of incompressible viscous flows. *Journal of*

Computational Physics, 214(1):397–420, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004511>.

Dipankar:2006:SCS

- [DS06b] A. Dipankar and T. K. Sengupta. Symmetrized compact scheme for receptivity study of 2D transitional channel flow. *Journal of Computational Physics*, 215(1):245–273, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004870>.

Dyadechko:2008:RMM

- [DS08] Vadim Dyadechko and Mikhail Shashkov. Reconstruction of multi-material interfaces from moment data. *Journal of Computational Physics*, 227(11):5361–5384, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005748>.

Dipankar:2009:NPS

- [DS09a] A. Dipankar and P. Sagaut. A new phase-screen method for electromagnetic wave propagation in turbulent flows using large-eddy simulation. *Journal of Computational Physics*, 228(20):7729–7741, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003933>.

Dritschel:2009:SN1

- [DS09b] D. G. Dritschel and R. K. Scott. On the simulation of nearly inviscid two-dimensional turbulence. *Journal of Computational Physics*, 228(8):2707–2711, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000266>.

daSilva:2000:UAG

- [dSAK00] L. F. Figueira da Silva, João L. F. Azevedo, and Heidi Korzenowski. Unstructured adaptive grid flow simulations of inert and reactive gas mixtures. *Journal of Computational Physics*, 160(2):522–540, May 20, 2000. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964702>.

Drouvelis:2006:PIR

- [DSB06] P. S. Drouvelis, P. Schmelcher, and P. Bastian. Parallel implementation of the recursive Green's function method. *Journal of Computational Physics*, 215(2):741–756, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005139>.

daSilva:2005:UTS

- [dSHHM05] F. da Silva, S. Heurax, S. Hacquin, and M. E. Manso. Unidirectional transparent signal injection in finite-difference time-domain electromagnetic codes — application to reflectometry simulations. *Journal of Computational Physics*, 203(2):467–492, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003882>.

Debry:2003:SAN

- [DSJ03] Edouard Debry, Bruno Sportisse, and Benjamin Jourdain. A stochastic approach for the numerical simulation of the general dynamics equation for aerosols. *Journal of Computational Physics*, 184(2):649–669, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000414>.

dAquino:2005:GIL

- [dSM05] Massimiliano d'Aquino, Claudio Serpico, and Giovanni Milano. Geometrical integration of Landau–Lifshitz–Gilbert equation based on the mid-point rule. *Journal of Computational Physics*, 209(2):730–753, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500197X>.

Darwish:2009:CFV

- [DSM09a] M. Darwish, I. Sraj, and F. Moukalled. A coupled finite volume solver for the solution of incompressible flows on unstructured grids. *Journal of Computational*

Physics, 228(1):180–201, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004725>.

Davoudabadi:2009:APH

- [DSM09b] M. Davoudabadi, J. S. Shrimpton, and F. Mashayek. On accuracy and performance of high-order finite volume methods in local mean energy model of non-thermal plasmas. *Journal of Computational Physics*, 228(7):2468–2479, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006384>.

dAquino:2009:NFN

- [dSMF09] Massimiliano d’Aquino, Claudio Serpico, Giovanni Miano, and Carlo Forestiere. A novel formulation for the numerical computation of magnetization modes in complex micromagnetic systems. *Journal of Computational Physics*, 228(17):6130–6149, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002642>.

deSousa:2004:FTF

- [dSMN⁺04] F. S. de Sousa, N. Mangiavacchi, L. G. Nonato, A. Castelo, M. F. Tomé, V. G. Ferreira, J. A. Cuminato, and S. McKee. A front-tracking/front-capturing method for the simulation of 3D multi-fluid flows with free surfaces. *Journal of Computational Physics*, 198(2):469–499, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000488>.

Domokos:2000:SRB

- [DSS00] Gábor Domokos, Imre Szeberényi, and Paul H. Steen. Simultaneously resolved bifurcation diagrams: a novel global approach applied to liquid figures of equilibrium. *Journal of Computational Physics*, 159(1):38–57, March 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964192>.

Ding:2007:DIM

- [DSS07] Hang Ding, Peter D. M. Spelt, and Chang Shu. Diffuse interface model for incompressible two-phase flows with large density ratios. *Journal of Computational Physics*, 226(2):2078–2095, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002793>.

Donev:2007:CFE

- [DST07a] Aleksandar Donev, Frank H. Stillinger, and Salvatore Torquato. Calculating the free energy of nearly jammed hard-particle packings using molecular dynamics. *Journal of Computational Physics*, 225(1):509–527, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006036>.

Dubroca:2007:CAC

- [DST07b] Bruno Dubroca, Mohammed Seaïd, and Ioan Teleaga. A consistent approach for the coupling of radiation and hydrodynamics at low Mach number. *Journal of Computational Physics*, 225(1):1039–1065, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000186>.

Dimakopoulos:2003:QET

- [DT03] Yannis Dimakopoulos and John Tsamopoulos. A quasi-elliptic transformation for moving boundary problems with large anisotropic deformations. *Journal of Computational Physics*, 192(2):494–522, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004066>.

Daru:2004:HOO

- [DT04] V. Daru and C. Tenaud. High order one-step monotonicity-preserving schemes for unsteady compressible flow calculations. *Journal of Computational Physics*, 193(2):563–594, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004327>.

deTullio:2007:IBM

- [dTDI⁺07] M. D. de Tullio, P. De Palma, G. Iaccarino, G. Pascasio, and M. Napolitano. An immersed boundary method for compressible flows using local grid refinement. *Journal of Computational Physics*, 225(2):2098–2117, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001222>.

Desquesnes:2006:UHO

- [DTMS06] G. Desquesnes, M. Terracol, E. Manoha, and P. Sagaut. On the use of a high order overlapping grid method for coupling in CFD/CAA. *Journal of Computational Physics*, 220(1):355–382, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002452>.

Donev:2005:NLCa

- [DTS05a] Aleksandar Donev, Salvatore Torquato, and Frank H. Stillinger. Neighbor list collision-driven molecular dynamics simulation for nonspherical hard particles. I. Algorithmic details. *Journal of Computational Physics*, 202(2):737–764, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003146>.

Donev:2005:NLCb

- [DTS05b] Aleksandar Donev, Salvatore Torquato, and Frank H. Stillinger. Neighbor list collision-driven molecular dynamics simulation for nonspherical hard particles. II. Applications to ellipses and ellipsoids. *Journal of Computational Physics*, 202(2):765–793, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003948>.

Donev:2004:LPA

- [DTSC04] Aleksandar Donev, Salvatore Torquato, Frank H. Stillinger, and Robert Connelly. A linear programming algorithm to test for jamming in hard-sphere packings. *Journal of Computational Physics*, 197(1):139–166, June 10, 2004. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006235>.

denToom:2009:CTS

- [dTWD09] Matthijs den Toom, Fred W. Wubs, and Henk A. Dijkstra. Corrigendum to “A tailored solver for bifurcation analysis of ocean-climate models” [J. Comput. Phys. **227** (2007) 654–679]. *Journal of Computational Physics*, 228(13):4962–4964, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001855>. See [dNWvSD07].

Densmore:2007:HTD

- [DUEB07] Jeffery D. Densmore, Todd J. Urbatsch, Thomas M. Evans, and Michael W. Buksas. A hybrid transport-diffusion method for Monte Carlo radiative-transfer simulations. *Journal of Computational Physics*, 222(2):485–503, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003639>.

Durran:2000:WPQ

- [Dur00] Dale R. Durran. Wave propagation in quadratic-finite-element approximations to hyperbolic equations. *Journal of Computational Physics*, 159(2):448–455, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964532>.

Duran:2008:TBE

- [Dur08] A. Durán. Time behaviour of the error when simulating finite-band periodic waves. The case of the KdV equation. *Journal of Computational Physics*, 227(3):2130–2153, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700472X>.

Dedner:2002:AHO

- [DV02] A. Dedner and P. Vollmöller. An adaptive higher order method for solving the radiation transport equation on unstructured grids. *Journal of Computational*

Physics, 178(2):263–289, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970014>.

daVeiga:2009:MFD

- [dVGLM09] L. Beirão da Veiga, V. Gyrya, K. Lipnikov, and G. Manzini. Mimetic finite difference method for the Stokes problem on polygonal meshes. *Journal of Computational Physics*, 228(19):7215–7232, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900343X>.

DeWilde:2005:SSA

- [DVHM05] Juray De Wilde, Jan Vierendeels, Geraldine J. Heynderickx, and Guy B. Marin. Simultaneous solution algorithms for Eulerian–Eulerian gas-solid flow models: Stability analysis and convergence behaviour of a point and a plane solver. *Journal of Computational Physics*, 207(1):309–353, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000318>.

Dai:2000:NSR

- [DW00] W. Wenlong Dai and Paul R. Woodward. Numerical simulations for radiation hydrodynamics: II. Transport limit. *Journal of Computational Physics*, 157(1):199–233, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963714>.

Di:2009:PSS

- [DW09] Yana Di and Xiao-Ping Wang. Precursor simulations in spreading using a multi-mesh adaptive finite element method. *Journal of Computational Physics*, 228(5):1380–1390, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005603>.

Dimits:2009:UAN

- [DWC⁺09] Andris M. Dimits, Chiaming Wang, Russel Caflisch, Bruce I. Cohen, and Yanghong Huang. Understanding the accuracy

of Nanbu's numerical Coulomb collision operator. *Journal of Computational Physics*, 228(13):4881–4892, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001715>.

Dwight:2008:HPE

- [Dwi08] Richard P. Dwight. Heuristic a posteriori estimation of error due to dissipation in finite volume schemes and application to mesh adaptation. *Journal of Computational Physics*, 227(5):2845–2863, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700513X>.

deWijn:2007:NAR

- [dWKL07] Astrid S. de Wijn, Stephan Kümmer, and Manfred Lein. Numerical aspects of real-space approaches to strong-field electron dynamics. *Journal of Computational Physics*, 226(1):89–103, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001441>.

Densmore:2009:SAI

- [DWLM09] Jeffery D. Densmore, James S. Warsa, Robert B. Lowrie, and Jim E. Morel. Stability analysis of implicit time discretizations for the Compton-scattering Fokker–Planck equation. *Journal of Computational Physics*, 228(16):5933–5960, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002459>.

Dyshlovenko:2001:AME

- [Dys01] Pavel Dyshlovenko. Adaptive mesh enrichment for the Poisson–Boltzmann equation. *Journal of Computational Physics*, 172(1):198–208, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968202>.

Deng:2000:DHO

- [DZ00] Xiaogang Deng and Hanxin Zhang. Developing high-order weighted compact nonlinear schemes. *Journal of Compu-*

tational Physics, 165(1):22–44, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096594X>.

Dohlus:2009:ETT

- [DZ09a] Martin Dohlus and Igor Zagorodnov. Explicit T/TM scheme for particle beam simulations. *Journal of Computational Physics*, 228(8):2822–2833, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006736>.

Dumbser:2009:VHO

- [DZ09b] Michael Dumbser and Olindo Zanotti. Very high order $P_N P_M$ schemes on unstructured meshes for the resistive relativistic MHD equations. *Journal of Computational Physics*, 228(18):6991–7006, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003350>.

Epstein:2001:AED

- [EAY01] B. Epstein, A. Averbuch, and I. Yavneh. An accurate ENO driven multigrid method applied to 3D turbulent transonic flows. *Journal of Computational Physics*, 168(2):316–338, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966987>.

Elkina:2006:NCU

- [EB06] N. V. Elkina and J. Büchner. A new conservative unsplit method for the solution of the Vlasov equation. *Journal of Computational Physics*, 213(2):862–875, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004201>.

Eldredge:2002:VPM

- [ECL02] Jeff D. Eldredge, Tim Colonius, and Anthony Leonard. A vortex particle method for two-dimensional compressible flow. *Journal of Computational Physics*, 179(2):371–399, July 1,

2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970609>.

Evans:2007:MCR

- [ED07] T. M. Evans and J. D. Densmore. Methods for coupling radiation, ion, and electron energies in grey implicit Monte Carlo. *Journal of Computational Physics*, 225(2):1695–1720, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000800>.

Edwards:2000:MFS

- [Edw00] Michael G. Edwards. M -matrix flux splitting for general full tensor discretization operators on structured and unstructured grids. *Journal of Computational Physics*, 160(1):1–28, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964180>.

Edwards:2006:DWC

- [Edw06] Michael G. Edwards. The dominant wave-capturing flux: a finite-volume scheme without decomposition for systems of hyperbolic conservation laws. *Journal of Computational Physics*, 218(1):275–294, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000817>.

Eilks:2008:NSD

- [EE08] C. Eilks and C. M. Elliott. Numerical simulation of dealloying by surface dissolution via the evolving surface finite element method. *Journal of Computational Physics*, 227(23):9727–9741, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004038>.

Elsey:2009:DGM

- [EES09] Matt Elsey, Selim Esedog̃lu, and Peter Smereka. Diffusion generated motion for grain growth in two and three dimensions. *Journal of Computational Physics*,

228(21):8015–8033, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004082>.

Evje:2002:HFS

- [EF02] Steinar Evje and Kjell K. Fjelde. Hybrid flux-splitting schemes for a two-phase flow model. *Journal of Computational Physics*, 175(2):674–701, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969621>.

Evje:2003:HFS

- [EF03] Steinar Evje and Tore Flåtten. Hybrid flux-splitting schemes for a common two-fluid model. *Journal of Computational Physics*, 192(1):175–210, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003711>.

Enright:2002:HPL

- [EFFM02] Douglas Enright, Ronald Fedkiw, Joel Ferziger, and Ian Mitchell. A hybrid particle level set method for improved interface capturing. *Journal of Computational Physics*, 183(1):83–116, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971664>.

El-gamel:2007:CBS

- [Eg07] Mohamed El-gamel. A comparison between the Sinc-Galerkin and the modified decomposition methods for solving two-point boundary-value problems. *Journal of Computational Physics*, 223(1):369–383, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004414>.

Ergul:2008:NES

- [EG08] Özgür Ergül and Levent Gürel. Novel electromagnetic surface integral equations for highly accurate computations of dielectric bodies with arbitrarily low contrasts. *Journal of Compu-*

tational Physics, 227(23):9898–9912, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004221>.

Efendiev:2006:AMF

- [EGHE06] Y. Efendiev, V. Ginting, T. Hou, and R. Ewing. Accurate multiscale finite element methods for two-phase flow simulations. *Journal of Computational Physics*, 220(1):155–174, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002269>.

Etienne:2009:PGC

- [ÉGP09] S. Étienne, A. Garon, and D. Pelletier. Perspective on the geometric conservation law and finite element methods for ALE simulations of incompressible flow. *Journal of Computational Physics*, 228(7):2313–2333, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006165>.

E:2002:DAC

- [EH02] Weinan E. and Zhongyi Huang. A dynamic atomistic-continuum method for the simulation of crystalline materials. *Journal of Computational Physics*, 182(1):234–261, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971640>.

Ekici:2008:CFH

- [EHD08] Kivanc Ekici, Kenneth C. Hall, and Earl H. Dowell. Computationally fast harmonic balance methods for unsteady aerodynamic predictions of helicopter rotors. *Journal of Computational Physics*, 227(12):6206–6225, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800140X>.

Elman:2008:TCP

- [EHS⁺08] Howard Elman, V. E. Howle, John Shadid, Robert Shuttleworth, and Ray Tuminaro. A taxonomy and comparison of parallel block multi-level preconditioners for the in-

compressible Navier–Stokes equations. *Journal of Computational Physics*, 227(3):1790–1808, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004330>.

Elman:2003:PBM

- [EHST03] Howard C. Elman, Victoria E. Howle, John N. Shadid, and Ray S. Tuminaro. A parallel block multi-level preconditioner for the 3D incompressible Navier–Stokes equations. *Journal of Computational Physics*, 187(2):504–523, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001219>.

Engsig-Karup:2009:EFO

- [EKBL09] A. P. Engsig-Karup, H. B. Bingham, and O. Lindberg. An efficient flexible-order model for 3D nonlinear water waves. *Journal of Computational Physics*, 228(6):2100–2118, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006190>.

Eck:2002:TSM

- [EKK02] Christof Eck, Peter Knabner, and Sergey Korotov. A two-scale method for the computation of solid-liquid phase transitions with dendritic microstructure. *Journal of Computational Physics*, 178(1):58–80, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297018X>.

Evans:2006:DDA

- [EKP06] Katherine J. Evans, D. A. Knoll, and Michael Pernice. Development of a 2-D algorithm to simulate convection and phase transition efficiently. *Journal of Computational Physics*, 219(1):404–417, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001690>.

Evans:2007:EAE

- [EKP07] Katherine J. Evans, D. A. Knoll, and Michael Pernice. Enhanced algorithm efficiency for phase change convection using a multigrid preconditioner with a SIMPLE smoother. *Journal of Computational Physics*, 223(1):121–126, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004281>.

Eldredge:2002:GDT

- [ELC02] Jeff D. Eldredge, Anthony Leonard, and Tim Colonius. A general deterministic treatment of derivatives in particle methods. *Journal of Computational Physics*, 180(2):686–709, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971123>.

Eldredge:2007:NSF

- [Eld07] Jeff D. Eldredge. Numerical simulation of the fluid dynamics of 2D rigid body motion with the vortex particle method. *Journal of Computational Physics*, 221(2):626–648, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003093>.

Eldredge:2008:DCF

- [Eld08a] Jeff D. Eldredge. Dynamically coupled fluid-body interactions in vorticity-based numerical simulations. *Journal of Computational Physics*, 227(21):9170–9194, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001952>.

Elsen:2008:LCF

- [ELD08b] Erich Elsen, Patrick LeGresley, and Eric Darve. Large calculation of the flow over a hypersonic vehicle using a GPU. *Journal of Computational Physics*, 227(24):10148–10161, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004476>.

Eliasson:2002:OBC

- [Eli02] Bengt Eliasson. Outflow boundary conditions for the Fourier transformed two-dimensional Vlasov equation. *Journal of Computational Physics*, 181(1):98–125, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971214>.

Eliasson:2003:NMT

- [Eli03] Bengt Eliasson. Numerical modelling of the two-dimensional Fourier transformed Vlasov–Maxwell system. *Journal of Computational Physics*, 190(2):501–522, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300295X>.

Eliasson:2007:OBC

- [Eli07] B. Eliasson. Outflow boundary conditions for the Fourier transformed three-dimensional Vlasov–Maxwell system. *Journal of Computational Physics*, 225(2):1508–1532, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000666>.

E:2007:NSS

- [ELVE07] Weinan E., Di Liu, and Eric Vanden-Eijnden. Nested stochastic simulation algorithms for chemical kinetic systems with multiple time scales. *Journal of Computational Physics*, 221(1):158–180, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002804>.

Estep:2001:ASL

- [ELW01] Donald J. Estep, Sjoerd M. Verduyn Lunel, and Roy D. Williams. Analysis of shear layers in a fluid with temperature-dependent viscosity. *Journal of Computational Physics*, 173(1):17–60, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968378>.

Ewing:2004:ABS

- [ELW04] Richard E. Ewing, Jiangguo Liu, and Hong Wang. Adaptive biorthogonal spline schemes for advection-reaction equations. *Journal of Computational Physics*, 193(1):21–39, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004145>.

Estep:2006:FRM

- [EN06] D. Estep and D. Neckels. Fast and reliable methods for determining the evolution of uncertain parameters in differential equations. *Journal of Computational Physics*, 213(2):530–556, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003918>.

Eberhard:2008:NUE

- [EPW08] Jens P. Eberhard, Dan Popović, and Gabriel Wittum. Numerical upscaling for the eddy-current model with stochastic magnetic materials. *Journal of Computational Physics*, 227(8):4244–4259, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005724>.

Engquist:2002:HFW

- [ERT02] Björn Engquist, Olof Runborg, and Anna-Karin Tornberg. High-frequency wave propagation by the segment projection method. *Journal of Computational Physics*, 178(2):373–390, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970336>.

E:2009:GSD

- [ERVE09] Weinan E., Weiqing Ren, and Eric Vanden-Eijnden. A general strategy for designing seamless multiscale methods. *Journal of Computational Physics*, 228(15):5437–5453, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002125>.

Elliott:2003:CBG

- [ES03a] C. M. Elliott and V. Styles. Computations of bidirectional grain boundary dynamics in thin metallic films. *Journal of Computational Physics*, 187(2):524–543, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001220>.

Ewert:2003:APE

- [ES03b] R. Ewert and W. Schröder. Acoustic perturbation equations based on flow decomposition via source filtering. *Journal of Computational Physics*, 188(2):365–398, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001682>.

Eskilsson:2006:SHD

- [ES06] Claes Eskilsson and Spencer J. Sherwin. Spectral/hp discontinuous Galerkin methods for modelling 2D Boussinesq equations. *Journal of Computational Physics*, 212(2):566–589, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003463>.

Engle:2005:MED

- [ESD05] Robert D. Engle, Robert D. Skeel, and Matthew Drees. Monitoring energy drift with shadow Hamiltonians. *Journal of Computational Physics*, 206(2):432–452, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005212>.

Ellero:2007:ISP

- [ESE07] Marco Ellero, Mar Serrano, and Pep Español. Incompressible smoothed particle hydrodynamics. *Journal of Computational Physics*, 226(2):1731–1752, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002598>.

Esedoglu:2006:TDP

- [ET06] Selim Esedoğlu and Yen-Hsi Richard Tsai. Threshold dynamics for the piecewise constant Mumford–Shah functional.

Journal of Computational Physics, 211(1):367–384, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002792>.

Engquist:2005:DDD

- [ETT05] Björn Engquist, Anna-Karin Tornberg, and Richard Tsai. Discretization of Dirac delta functions in level set methods. *Journal of Computational Physics*, 207(1):28–51, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500015X>.

Evans:2003:RMC

- [EULM03] T. M. Evans, T. J. Urbatsch, H. Lichtenstein, and J. E. Morel. A residual Monte Carlo method for discrete thermal radiative diffusion. *Journal of Computational Physics*, 189(2):539–556, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300233X>.

Elmer:2003:APF

- [EV03] Christopher E. Elmer and Erik S. Van Vleck. Anisotropy, propagation failure, and wave speedup in traveling waves of discretizations of a Nagumo PDE. *Journal of Computational Physics*, 185(2):562–582, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000044>.

Edwards:2008:QPF

- [EZ08a] Michael G. Edwards and Hongwen Zheng. A quasi-positive family of continuous darcy-flux finite-volume schemes with full pressure support. *Journal of Computational Physics*, 227(22):9333–9364, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002908>.

Ehrhardt:2008:EAB

- [EZ08b] Matthias Ehrhardt and Chunxiong Zheng. Exact artificial boundary conditions for problems with periodic structures. *Journal of Computational Physics*, 227(14):6877–6894, July

1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002015>.

Fan:2008:EFT

- [Fan08] Ping Fan. An efficient front-tracking method for fully nonlinear interfacial waves. *Journal of Computational Physics*, 227(15):7346–7367, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002465>.

Fasso:2003:CSA

- [Fas03] Francesco Fassò. Comparison of splitting algorithms for the rigid body. *Journal of Computational Physics*, 189(2):527–538, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002328>.

Ferdowsi:2008:SOA

- [FB08] Poorya A. Ferdowsi and Markus Bussmann. Second-order accurate normals from height functions. *Journal of Computational Physics*, 227(22):9293–9302, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003987>.

Figua:2000:IFM

- [FBFF00] H. Figua, F. Bouchut, M. R. Feix, and E. Fijalkow. Instability of the filtering method for Vlasov’s equation. *Journal of Computational Physics*, 159(2):440–447, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964234>.

Fournier:2005:FSE

- [FBHV05] Alexandre Fournier, Hans-Peter Bunge, Rainer Hollerbach, and Jean-Pierre Vilotte. A Fourier-spectral element algorithm for thermal convection in rotating axisymmetric containers. *Journal of Computational Physics*, 204(2):462–489, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004243>.

Frohn:2002:DHR

- [FCB02] Lise M. Frohn, Jesper H. Christensen, and Jørgen Brandt. Development of a high-resolution nested air pollution model: The numerical approach. *Journal of Computational Physics*, 179(1):68–94, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970361>.

Francois:2006:BFA

- [FCD⁺06] Marianne M. François, Sharen J. Cummins, Edward D. Dendy, Douglas B. Kothe, James M. Sicilian, and Matthew W. Williams. A balanced-force algorithm for continuous and sharp interfacial surface tension models within a volume tracking framework. *Journal of Computational Physics*, 213(1):141–173, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003748>.

Fructus:2005:EMT

- [FCGK05] Dorian Fructus, Didier Clamond, John Grue, and Øyvind Kristiansen. An efficient model for three-dimensional surface wave simulations: Part I: Free space problems. *Journal of Computational Physics*, 205(2):665–685, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004863>.

Fan:2008:FVG

- [FCJ08a] Kai Fan, Wei Cai, and Xia Ji. A full vectorial generalized discontinuous Galerkin beam propagation method (GDG–BPM) for nonsmooth electromagnetic fields in waveguides. *Journal of Computational Physics*, 227(15):7178–7191, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001812>.

Fan:2008:GDG

- [FCJ08b] Kai Fan, Wei Cai, and Xia Ji. A generalized discontinuous Galerkin (GDG) method for Schrödinger equations with nonsmooth solutions. *Journal of Computa-*

tional Physics, 227(4):2387–2410, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004706>.

Forbes:2007:CUP

- [FCT07] Lawrence K. Forbes, Michael J. Chen, and Claire E. Trenham. Computing unstable periodic waves at the interface of two inviscid fluids in uniform vertical flow. *Journal of Computational Physics*, 221(1):269–287, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002889>.

Fietier:2003:TDA

- [FD03] Nicolas Fiétier and Michel O. Deville. Time-dependent algorithms for the simulation of viscoelastic flows with spectral element methods: applications and stability. *Journal of Computational Physics*, 186(1):93–121, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000135>.

Fidkowski:2007:TCC

- [FD07] Krzysztof J. Fidkowski and David L. Darmofal. A triangular cut-cell adaptive method for high-order discretizations of the compressible Navier–Stokes equations. *Journal of Computational Physics*, 225(2):1653–1672, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000757>.

Fong:2009:BBF

- [FD09a] William Fong and Eric Darve. The black-box fast multipole method. *Journal of Computational Physics*, 228(23):8712–8725, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004665>.

Fontane:2009:HAN

- [FD09b] Jérôme Fontane and David G. Dritschel. The HyperCASL algorithm: a new approach to the numerical simulation of geophysical flows. *Journal of Computational*

Physics, 228(17):6411–6425, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002848>.

Fauconnier:2007:DPA

- [FDD07] Dieter Fauconnier, Chris De Langhe, and Erik Dick. The dynamic procedure for accuracy improvement of numerical discretizations in fluid mechanics. *Journal of Computational Physics*, 224(2):1095–1123, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005675>.

Fauconnier:2009:CEI

- [FDD09a] Dieter Fauconnier, Chris De Langhe, and Erik Dick. Construction of explicit and implicit dynamic finite difference schemes and application to the large-eddy simulation of the Taylor–Green vortex. *Journal of Computational Physics*, 228(21):8053–8084, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004124>.

Fauconnier:2009:FDF

- [FDD09b] Dieter Fauconnier, Chris De Langhe, and Erik Dick. A family of dynamic finite difference schemes for large-eddy simulation. *Journal of Computational Physics*, 228(6):1830–1861, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005974>.

Frank:2006:PME

- [FDK06] Martin Frank, Bruno Dubroca, and Axel Klar. Partial moment entropy approximation to radiative heat transfer. *Journal of Computational Physics*, 218(1):1–18, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600057X>.

Fong:2008:SAV

- [FDL08] William Fong, Eric Darve, and Adrian Lew. Stability of asynchronous variational integrators. *Journal of Computa-*

tional Physics, 227(18):8367–8394, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003069>.

Ferrante:2004:RMG

- [FE04] A. Ferrante and S. E. Elghobashi. A robust method for generating inflow conditions for direct simulations of spatially-developing turbulent boundary layers. *Journal of Computational Physics*, 198(1):372–387, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000348>.

Fedkiw:2002:CEF

- [Fed02] Ronald P. Fedkiw. Coupling an Eulerian fluid calculation to a Lagrangian solid calculation with the ghost fluid method. *Journal of Computational Physics*, 175(1):200–224, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969359>.

Fedele:2005:FPM

- [FEL⁺05] Francesco Fedele, Margaret J. Eppstein, Jeffrey P. Laible, Anuradha Godavarty, and Eva M. Sevik-Muraca. Fluorescence photon migration by the boundary element method. *Journal of Computational Physics*, 210(1):109–132, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002007>.

Feng:2006:DDN

- [Fen06] Y. T. Feng. On the discrete dynamic nature of the conjugate gradient method. *Journal of Computational Physics*, 211(1):91–98, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002639>.

Falcone:2002:SLS

- [FF02] M. Falcone and R. Ferretti. Semi-Lagrangian schemes for Hamilton–Jacobi equations, discrete representation formulae and Godunov methods. *Journal of Computational*

Physics, 175(2):559–575, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969542>.

Flyer:2003:ANR

- [FF03] Natasha Flyer and Bengt Fornberg. Accurate numerical resolution of transients in initial-boundary value problems for the heat equation. *Journal of Computational Physics*, 184(2):526–539, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000347>.

Fureby:2002:LES

- [FG02] Christer Fureby and Fernando F. Grinstein. Large eddy simulation of high-Reynolds-number free and wall-bounded flows. *Journal of Computational Physics*, 181(1):68–97, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971196>.

Farnell:2004:MCS

- [FG04] L. Farnell and W. G. Gibson. Monte Carlo simulation of diffusion in a spatially nonhomogeneous medium: correction to the Gaussian steplength. *Journal of Computational Physics*, 198(1):65–79, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000191>.

Farnell:2005:MCS

- [FG05] L. Farnell and W. G. Gibson. Monte Carlo simulation of diffusion in a spatially nonhomogeneous medium: a biased random walk on an asymmetrical lattice. *Journal of Computational Physics*, 208(1):253–265, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001087>.

Fuchs:2006:IEM

- [FG06] V. Fuchs and J. P. Gunn. On the integration of equations of motion for particle-in-cell codes. *Journal of Com-*

putational Physics, 214(1):299–315, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004365>.

Fructus:2007:EMN

- [FG07] Dorian Fructus and John Grue. An explicit method for the nonlinear interaction between water waves and variable and moving bottom topography. *Journal of Computational Physics*, 222(2):720–739, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003925>.

Farhat:2001:DGC

- [FGG01] Charbel Farhat, Philippe Geuzaine, and Céline Grandmont. The discrete geometric conservation law and the nonlinear stability of ALE schemes for the solution of flow problems on moving grids. *Journal of Computational Physics*, 174(2):669–694, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969323>.

Frontera:2000:EAF

- [FGOV00] Carlos Frontera, Jürgen Goicoechea, Jordi Ortín, and Eduard Vives. Efficient algorithm for finding ground-states in the random field Ising model with an external field. *Journal of Computational Physics*, 160(1):117–125, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964374>.

Fournier:2008:NOB

- [FGP08] G. Fournier, F. Golanski, and A. Pollard. A novel outflow boundary condition for incompressible laminar wall-bounded flows. *Journal of Computational Physics*, 227(15):7077–7082, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001794>.

Favrie:2009:SFD

- [FGS09] N. Favrie, S. L. Gavriluk, and R. Saurel. Solid-fluid diffuse interface model in cases of extreme deformations. *Journal of Computational Physics*, 228(16):6037–6077, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002654>.

Filippova:2000:ALB

- [FH00a] Olga Filippova and Dieter Hänel. Acceleration of lattice-BGK schemes with grid refinement. *Journal of Computational Physics*, 165(2):407–427, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966178>.

Filippova:2000:NLB

- [FH00b] Olga Filippova and Dieter Hänel. A novel lattice BGK approach for low Mach number combustion. *Journal of Computational Physics*, 158(2):139–160, March 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964057>.

Franz:2002:OAS

- [FH02] Astrid Franz and Karl Heinz Hoffmann. Optimal annealing schedules for a modified Tsallis statistics. *Journal of Computational Physics*, 176(1):196–204, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196975X>.

Fujii:2003:IWC

- [FH03] Masafumi Fujii and Wolfgang J. R. Hoefer. Interpolating wavelet collocation method of time dependent Maxwell's equations: characterization of electrically large optical waveguide discontinuities. *Journal of Computational Physics*, 186(2):666–689, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000913>■

Fixel:2007:CSS

- [FH07] D. A. Fixel and W. N. G. Hitchon. Convective scheme solution of the Boltzmann transport equation for nanoscale semiconductor devices. *Journal of Computational Physics*, 227(2):1387–1410, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003993>.

Feng:2009:EPQ

- [FHD⁺09] B. Feng, C. Huang, V. Decyk, W. B. Mori, P. Muggli, and T. Katsouleas. Enhancing parallel quasi-static particle-in-cell simulations with a pipelining algorithm. *Journal of Computational Physics*, 228(15):5340–5348, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900206X>.

Farhi:2009:VEC

- [FHJK09] E. Farhi, V. Hugouvieux, M. R. Johnson, and W. Kob. Virtual experiments: Combining realistic neutron scattering instrument and sample simulations. *Journal of Computational Physics*, 228(14):5251–5261, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002009>.

Flad:2005:WAQ

- [FHLK05] Heinz-Jürgen Flad, Wolfgang Hackbusch, Hongjun Luo, and Dietmar Kolb. Wavelet approach to quasi two-dimensional extended many-particle systems. I. Supercell Hartree–Fock method. *Journal of Computational Physics*, 205(2):540–566, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004802>.

Feng:2008:DTE

- [FHLO08] Y. T. Feng, K. Han, C. F. Li, and D. R. J. Owen. Discrete thermal element modelling of heat conduction in particle systems: Basic formulations. *Journal of Computational Physics*, 227(10):5072–5089, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000594>.

Fattebert:2007:FEA

- [FHW07] J.-L. Fattebert, R. D. Hornung, and A. M. Wissink. Finite element approach for density functional theory calculations on locally-refined meshes. *Journal of Computational Physics*, 223(2):759–773, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004724>.

Ferraro:2009:CTF

- [FJ09] N. M. Ferraro and S. C. Jardin. Calculations of two-fluid magnetohydrodynamic axisymmetric steady-states. *Journal of Computational Physics*, 228(20):7742–7770, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003969>.

Fukagata:2002:HEC

- [FK02] Koji Fukagata and Nobuhide Kasagi. Highly energy-conservative finite difference method for the cylindrical coordinate system. *Journal of Computational Physics*, 181(2):478–498, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297138X>.

Feng:2006:FEM

- [FK06] Feng Feng and William S. Klug. Finite element modeling of lipid bilayer membranes. *Journal of Computational Physics*, 220(1):394–408, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002476>.

Feistauer:2007:RDG

- [FK07a] M. Feistauer and V. Kucera. On a robust discontinuous Galerkin technique for the solution of compressible flow. *Journal of Computational Physics*, 224(1):208–221, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000411>.

Finkelstein:2007:FDT

- [FK07b] Bezalel Finkelstein and Raphael Kastner. Finite difference time domain dispersion reduction schemes. *Journal of Computational Physics*, 221(1):422–438, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002932>.

Fedosov:2009:TDI

- [FK09a] Dmitry A. Fedosov and George Em Karniadakis. Triple-decker: Interfacing atomistic-mesosopic-continuum flow regimes. *Journal of Computational Physics*, 228(4):1157–1171, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005421>.

Finkelstein:2009:SOA

- [FK09b] B. Finkelstein and R. Kastner. The spectral order of accuracy: a new unified tool in the design methodology of excitation-adaptive wave equation FDTD schemes. *Journal of Computational Physics*, 228(24):8958–8984, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004744>.

Furuichi:2008:TDE

- [FKK08] Mikito Furuichi, Masanori Kameyama, and Akira Kageyama. Three-dimensional Eulerian method for large deformation of viscoelastic fluid: Toward plate-mantle simulation. *Journal of Computational Physics*, 227(10):4977–4997, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000557>.

Frank:2007:TDS

- [FKLY07] Martin Frank, Axel Klar, Edward W. Larsen, and Shugo Yasuda. Time-dependent simplified P_N approximation to the equations of radiative transfer. *Journal of Computational Physics*, 226(2):2289–2305, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003154>.

Feng:2008:AAR

- [FKV08] Y. Feng, H. C. Kim, and J. P. Verboncoeur. Algorithms for accurate relativistic particle injection. *Journal of Computational Physics*, 227(3):1663–1675, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004238>.

Ferm:2003:AGA

- [FL03] Lars Ferm and Per Lötstedt. Anisotropic grid adaptation for Navier–Stokes’ equations. *Journal of Computational Physics*, 190(1):22–41, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300250X>.

Felten:2006:KEC

- [FL06] Frédéric N. Felten and Thomas S. Lund. Kinetic energy conservation issues associated with the collocated mesh scheme for incompressible flow. *Journal of Computational Physics*, 215(2):465–484, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004997>.

Fiorina:2007:AND

- [FL07] B. Fiorina and S. K. Lele. An artificial nonlinear diffusivity method for supersonic reacting flows with shocks. *Journal of Computational Physics*, 222(1):246–264, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003536>.

Feng:2009:OSM

- [FL09] B.-F. Feng and Y. Liu. An operator splitting method for the Degasperis–Procesi equation. *Journal of Computational Physics*, 228(20):7805–7820, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004112>.

Favennec:2003:IHP

- [FLB03] Y. Favennec, V. Labbé, and F. Bay. Induction heating processes optimization a general optimal control approach. *Journal of Computational Physics*, 187(1):68–94, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000810>.

Fedele:2003:CCA

- [FLE03] F. Fedele, J. P. Laible, and M. J. Eppstein. Coupled complex adjoint sensitivities for frequency-domain fluorescence tomography: theory and vectorized implementation. *Journal of Computational Physics*, 187(2):597–619, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001505>.

Fedioun:2001:RNE

- [FLG01] Ivan Fedioun, Nicolas Lardjane, and Iskender Gökalp. Revisiting numerical errors in direct and large eddy simulations of turbulence: Physical and spectral spaces analysis. *Journal of Computational Physics*, 174(2):816–851, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969396>.

Fox:2008:NSS

- [FLM08] R. O. Fox, F. Laurent, and M. Massot. Numerical simulation of spray coalescence in an Eulerian framework: Direct quadrature method of moments and multi-fluid method. *Journal of Computational Physics*, 227(6):3058–3088, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004664>.

Fomel:2009:FSM

- [FLZ09] Sergey Fomel, Songting Luo, and Hongkai Zhao. Fast sweeping method for the factored eikonal equation. *Journal of Computational Physics*, 228(17):6440–6455, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002873>.

Feng:2004:IBL

- [FM04] Zhi-Gang Feng and Efstathios E. Michaelides. The immersed boundary-lattice Boltzmann method for solving fluid-particles interaction problems. *Journal of Computational Physics*, 195(2):602–628, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005758>.

Feng:2005:PDF

- [FM05] Zhi-Gang Feng and Efstathios E. Michaelides. Proteus: a direct forcing method in the simulations of particulate flows. *Journal of Computational Physics*, 202(1):20–51, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002669>.

Fujimoto:2006:EFP

- [FM06] Keizo Fujimoto and Shinobu Machida. Electromagnetic full particle code with adaptive mesh refinement technique: Application to the current sheet evolution. *Journal of Computational Physics*, 214(2):550–566, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004614>.

Fatenejad:2008:EKD

- [FM08] Milad Fatenejad and Gregory A. Moses. Extension of Kershaw diffusion scheme to hexahedral meshes. *Journal of Computational Physics*, 227(4):2187–2194, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004810>.

Frantziskonis:2009:TPM

- [FMD⁺09] G. Frantziskonis, K. Muralidharan, P. Deymier, S. Simunovic, P. Nukala, and S. Pannala. Time-parallel multiscale/multiphysics framework. *Journal of Computational Physics*, 228(21):8085–8092, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004161>.

Fedkiw:2000:SDS

- [FMO00] Ronald P. Fedkiw, Barry Merriman, and Stanley Osher. Simplified discretization of systems of hyperbolic conservation laws containing advection equations. *Journal of Computational Physics*, 157(1):302–326, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963799>.

Fuchs:2009:SBF

- [FMR09] F. G. Fuchs, S. Mishra, and N. H. Risebro. Splitting based finite volume schemes for ideal MHD equations. *Journal of Computational Physics*, 228(3):641–660, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004993>.

Fernandez-Nieto:2008:NSH

- [FNBB⁺08] E. D. Fernández-Nieto, F. Bouchut, D. Bresch, M. J. Castro Díaz, and A. Mangeney. A new Savage–Hutter type model for submarine avalanches and generated tsunamis. *Journal of Computational Physics*, 227(16):7720–7754, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800260X>.

Fang:2007:SHO

- [FNS07] Qirong Fang, David P. Nicholls, and Jie Shen. A stable, high-order method for three-dimensional, bounded-obstacle, acoustic scattering. *Journal of Computational Physics*, 224(2):1145–1169, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005699>.

Fidkowski:2005:MSH

- [FOLD05] Krzysztof J. Fidkowski, Todd A. Oliver, James Lu, and David L. Darmofal. p -multigrid solution of high-order discontinuous Galerkin discretizations of the compressible Navier–Stokes equations. *Journal of Computational Physics*, 207(1):92–113, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999105000185>.

Fournier:2006:ECF

- [Fou06] Aimé Fournier. Exact calculation of Fourier series in non-conforming spectral-element methods. *Journal of Computational Physics*, 215(1):1–5, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004973>.

Fox:2008:QBT

- [Fox08] R. O. Fox. A quadrature-based third-order moment method for dilute gas-particle flows. *Journal of Computational Physics*, 227(12):6313–6350, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001599>.

Fox:2009:HOQ

- [Fox09] R. O. Fox. Higher-order quadrature-based moment methods for kinetic equations. *Journal of Computational Physics*, 228(20):7771–7791, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004070>.

Filbet:2002:NMA

- [FP02] Francis Filbet and Lorenzo Pareschi. A numerical method for the accurate solution of the Fokker–Planck–Landau equation in the nonhomogeneous case. *Journal of Computational Physics*, 179(1):1–26, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970105>.

Fang:2008:RLF

- [FP08a] Jiannong Fang and Aurèle Parriaux. A regularized Lagrangian finite point method for the simulation of incompressible viscous flows. *Journal of Computational Physics*, 227(20):8894–8908, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999108003653>.

Fornberg:2008:CRB

- [FP08b] Bengt Fornberg and Cécile Piret. On choosing a radial basis function and a shape parameter when solving a convective PDE on a sphere. *Journal of Computational Physics*, 227(5):2758–2780, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005025>.

Fangohr:2000:EMH

- [FPC⁺00] Hans Fangohr, Andrew R. Price, Simon J. Cox, Peter A. J. de Groot, Geoffrey J. Daniell, and Ken S. Thomas. Efficient methods for handling long-range forces in particle-particle simulations. *Journal of Computational Physics*, 162(2):372–384, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965410>.

Fedosov:2008:VLD

- [FPK08] Dmitry A. Fedosov, Igor V. Pivkin, and George Em Karniadakis. Velocity limit in DPD simulations of wall-bounded flows. *Journal of Computational Physics*, 227(4):2540–2559, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004809>.

Filbet:2005:ANM

- [FPT05] Francis Filbet, Lorenzo Pareschi, and Giuseppe Toscani. Accurate numerical methods for the collisional motion of (heated) granular flows. *Journal of Computational Physics*, 202(1):216–235, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002748>.

Frank:2002:PMM

- [FR02] Jason Frank and Sebastian Reich. A particle-mesh method for the shallow water equations near geostrophic balance. *Journal of Computational Physics*, 180(2):407–426, August 10,

2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970580>.

Filbet:2003:HON

- [FR03] Francis Filbet and Giovanni Russo. High order numerical methods for the space non-homogeneous Boltzmann equation. *Journal of Computational Physics*, 186(2):457–480, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000652>.

Frandsen:2004:SME

- [Fra04] Jannette B. Frandsen. Sloshing motions in excited tanks. *Journal of Computational Physics*, 196(1):53–87, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S00219991030005862>.

Freund:2000:SMC

- [Fre00] J. B. Freund. A simple method for computing far-field sound in aeroacoustic computations. *Journal of Computational Physics*, 157(2):796–800, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963921>.

Farhat:2008:HOG

- [FRS08] Charbel Farhat, Arthur Rallu, and Sriram Shankaran. A higher-order generalized ghost fluid method for the poor for the three-dimensional two-phase flow computation of underwater implosions. *Journal of Computational Physics*, 227(16):7674–7700, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002568>.

Frink:2000:TTDa

- [FS00a] Laura J. Douglas Frink and Andrew G. Salinger. Two- and three-dimensional nonlocal density functional theory for inhomogeneous fluids: I. Algorithms and parallelization. *Journal of Computational Physics*, 159(2):407–424, April 10, 2000.

CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964544>.

Frink:2000:TTDb

- [FS00b] Laura J. Douglas Frink and Andrew G. Salinger. Two- and three-dimensional nonlocal density functional theory for inhomogeneous fluids: II. Solvated polymers as a benchmark problem. *Journal of Computational Physics*, 159(2):425–439, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964556>.

Fan:2001:SSL

- [FS01] Jing Fan and Ching Shen. Statistical simulation of low-speed rarefied gas flows. *Journal of Computational Physics*, 167(2):393–412, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966816>.

Fast:2004:MOG

- [FS04] Petri Fast and Michael J. Shelley. A moving over-set grid method for interface dynamics applied to non-Newtonian Hele-Shaw flow. *Journal of Computational Physics*, 195(1):117–142, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005138>.

Fast:2006:MLS

- [FS06] Petri Fast and Michael J. Shelley. Moore’s law and the Saffman–Taylor instability. *Journal of Computational Physics*, 212(1):1–5, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003165>.

Farjoun:2009:ECP

- [FS09] Yossi Farjoun and Benjamin Seibold. An exactly conservative particle method for one dimensional scalar conservation laws. *Journal of Computational Physics*, 228(14):5298–5315, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002046>.

Filbet:2001:CNS

- [FSB01] Francis Filbet, Eric Sonnendrücker, and Pierre Bertrand. Conservative numerical schemes for the Vlasov equation. *Journal of Computational Physics*, 172(1):166–187, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968184>.

Filippova:2001:MLB

- [FSM⁺01] Olga Filippova, Sauro Succi, Francesco Mazzocco, Cinzio Arrighetti, Gino Bella, and Dieter Hänel. Multiscale lattice Boltzmann schemes with turbulence modeling. *Journal of Computational Physics*, 170(2):812–829, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967646>.

Fedkiw:2003:SCL

- [FSS03] Ronald P. Fedkiw, Guillermo Sapiro, and Chi-Wang Shu. Shock capturing, level sets, and PDE based methods in computer vision and image processing: a review of Osher’s contributions. *Journal of Computational Physics*, 185(2):309–341, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000165>.

Friese:2000:TBC

- [FSY00] Tilmann Friese, Frank Schmidt, and David Yevick. Transparent boundary conditions for a wide-angle approximation of the one-way Helmholtz equation. *Journal of Computational Physics*, 165(2):645–659, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966373>.

Fibich:2001:HOT

- [FT01] Gadi Fibich and Semyon Tsynkov. High-order two-way artificial boundary conditions for nonlinear wave propagation with backscattering. *Journal of Computational*

Physics, 171(2):632–677, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968007>.

Fibich:2005:NSN

- [FT05] G. Fibich and S. Tsynkov. Numerical solution of the non-linear Helmholtz equation using nonorthogonal expansions. *Journal of Computational Physics*, 210(1):183–224, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002068>.

Feigl:2006:DEM

- [FT06] Kathleen Feigl and Franz X. Tanner. Development and evaluation of a micro-macro algorithm for the simulation of polymer flow. *Journal of Computational Physics*, 216(1):92–113, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005449>.

Fukui:2009:OCM

- [FT09] Kouki Fukui and Synge Todo. Order- N cluster Monte Carlo method for spin systems with long-range interactions. *Journal of Computational Physics*, 228(7):2629–2642, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006621>.

Frontera:2001:AFF

- [FV01] Carlos Frontera and Eduard Vives. An algorithm for finding the first excited state in the random-field Ising model. *Journal of Computational Physics*, 168(1):219–226, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966956>.

Fatkullin:2004:CSM

- [FVE04] Ibrahim Fatkullin and Eric Vanden-Eijnden. A computational strategy for multiscale systems with applications to Lorenz 96 model. *Journal of Computational Physics*, 200(2):605–638, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999104001810>.

Fadlun:2000:CIB

- [FVOMY00] E. A. Fadlun, R. Verzicco, P. Orlandi, and J. Mohd-Yusof. Combined immersed-boundary finite-difference methods for three-dimensional complex flow simulations. *Journal of Computational Physics*, 161(1):35–60, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964842>.

Flyer:2007:TSS

- [FW07] Natasha Flyer and Grady B. Wright. Transport schemes on a sphere using radial basis functions. *Journal of Computational Physics*, 226(1):1059–1084, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002215>.

Foo:2008:MEP

- [FWK08] Jasmine Foo, Xiaoliang Wan, and George Em Karniadakis. The multi-element probabilistic collocation method (ME-PCM): Error analysis and applications. *Journal of Computational Physics*, 227(22):9572–9595, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003707>.

Fichtl:2009:KIM

- [FWP09] Erin D. Fichtl, James S. Warsa, and Anil K. Prinja. Krylov iterative methods and synthetic acceleration for transport in binary statistical media. *Journal of Computational Physics*, 228(22):8413–8426, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004562>.

Fisher:2007:EVF

- [FWR07] A. Fisher, D. White, and G. Rodrigue. An efficient vector finite element method for nonlinear electromagnetic modeling. *Journal of Computational Physics*, 225(2):1331–1346, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000447>.

Fleming:2004:LCN

- [FWW04] John L. Fleming, Aihua W. Wood, and William D. Wood, Jr. Locally corrected Nyström method for EM scattering by bodies of revolution. *Journal of Computational Physics*, 196(1):41–52, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005850>.

Fujita:2007:MSM

- [FY07] M. Fujita and Y. Yamaguchi. Multiscale simulation method for self-organization of nanoparticles in dense suspension. *Journal of Computational Physics*, 223(1):108–120, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600427X>.

Feng:2006:SIA

- [FYH⁺06] W. M. Feng, P. Yu, S. Y. Hu, Z. K. Liu, Q. Du, and L. Q. Chen. Spectral implementation of an adaptive moving mesh method for phase-field equations. *Journal of Computational Physics*, 220(1):498–510, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003445>.

Gong:2009:CFS

- [GA09] Minwei Gong and Yiannis Andreopoulos. Coupled fluid-structure solver: The case of shock wave impact on monolithic and composite material plates. *Journal of Computational Physics*, 228(12):4400–4434, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900134X>.

Gabard:2007:DGM

- [Gab07] Gwénaél Gabard. Discontinuous Galerkin methods with plane waves for time-harmonic problems. *Journal of Computational Physics*, 225(2):1961–1984, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000964>.

Grenier:2009:HIS

- [GAC⁺09] N. Grenier, M. Antuono, A. Colagrossi, D. Le Touzé, and B. Alessandrini. An Hamiltonian interface SPH formulation for multi-fluid and free surface flows. *Journal of Computational Physics*, 228(22):8380–8393, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900446X>.

Givelberg:2003:CTD

- [GB03] Edward Givelberg and Julian Bunn. A comprehensive three-dimensional model of the cochlea. *Journal of Computational Physics*, 191(2):377–391, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300319X>.

Gatti-Bono:2008:CDA

- [GB08a] Caroline Gatti-Bono. Coupling and decoupling of the acoustic and gravity waves through perturbational analysis of the Euler equations. *Journal of Computational Physics*, 227(3):1609–1612, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004378>.

Gubernatis:2008:MEE

- [GB08b] J. E. Gubernatis and T. E. Booth. Multiple extremal eigenpairs by the power method. *Journal of Computational Physics*, 227(19):8508–8522, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003136>.

Grandgirard:2006:DKS

- [GBB⁺06] V. Grandgirard, M. Brunetti, P. Bertrand, N. Besse, X. Garbet, P. Ghendrih, G. Manfredi, Y. Sarazin, O. Sauter, E. Sonnendrücker, J. Vaclavik, and L. Villard. A drift-kinetic semi-Lagrangian 4D code for ion turbulence simulation. *Journal of Computational Physics*, 217(2):395–423, September 20,

2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000155>.

Gatti-Bono:2006:AAP

- [GBC06] Caroline Gatti-Bono and Phillip Colella. An anelastic all-speed projection method for gravitationally stratified flows. *Journal of Computational Physics*, 216(2):589–615, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000027>.

Grandclement:2001:MSM

- [GBGM01] P. Grandclément, S. Bonazzola, E. Gourgoulhon, and J.-A. Marck. A multidomain spectral method for scalar and vectorial Poisson equations with noncompact sources. *Journal of Computational Physics*, 170(1):231–260, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967348>.

Goswami:2000:SEM

- [GBS00] Priyanka Goswami, S. N. Bhattacharyya, and A. Sen. Spectrum of electrostatic modes in a cylindrical non-neutral plasma of arbitrary density. *Journal of Computational Physics*, 159(2):312–328, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964477>.

Greer:2006:FOP

- [GBS06] John B. Greer, Andrea L. Bertozzi, and Guillermo Sapiro. Fourth order partial differential equations on general geometries. *Journal of Computational Physics*, 216(1):216–246, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005498>.

Gascon:2001:CSO

- [GC01] Ll. Gascón and J. M. Corberán. Construction of second-order TVD schemes for nonhomogeneous hyperbolic conservation laws. *Journal of Computational Physics*, 172(1):261–297, September 1, 2001. CODEN JCTPAH. ISSN

0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968238>.

Giona:2002:IDF

- [GC02a] Massimiliano Giona and Stefano Cerbelli. C^∞ -interpolation of discrete fields on regular and irregular grids. *Journal of Computational Physics*, 176(1):145–169, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969724>.

Greve:2002:CNS

- [GC02b] Ralf Greve and Reinhard Calov. Comparison of numerical schemes for the solution of the ice-thickness equation in a dynamic/thermodynamic ice-sheet model. *Journal of Computational Physics*, 179(2):649–664, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970816>.

Gobbert:2006:KTR

- [GC06] Matthias K. Gobbert and Timothy S. Cale. A kinetic transport and reaction model and simulator for rarefied gas flow in the transition regime. *Journal of Computational Physics*, 213(2):591–612, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003943>.

Gonzalez:2007:NEU

- [GCCD07] D. González, E. Cueto, F. Chinesta, and M. Doblaré. A natural element updated Lagrangian strategy for free-surface fluid dynamics. *Journal of Computational Physics*, 223(1):127–150, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004293>.

Garcia-Cervera:2003:ANM

- [GCGE03] Carlos J. García-Cervera, Zydrunas Gimbutas, and Weinan E. Accurate numerical methods for micromagnetics simulations with general geometries. *Journal of Computational Physics*, 184(1):37–52, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999102000141>.

Greenwood:2004:ENC

- [GCLB04] Andrew D. Greenwood, Keith L. Cartwright, John W. Luginsland, and Ernest A. Baca. On the elimination of numerical Cerenkov radiation in PIC simulations. *Journal of Computational Physics*, 201(2):665–684, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002608>.

Gibou:2007:LSB

- [GCNB07] Frédéric Gibou, Liguang Chen, Duc Nguyen, and Sanjoy Banerjee. A level set based sharp interface method for the multiphase incompressible Navier–Stokes equations with phase change. *Journal of Computational Physics*, 222(2):536–555, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003652>.

Garcia-Cervera:2007:SPC

- [GCW07] Carlos J. García-Cervera and Xiao-Ping Wang. Spin-polarized currents in ferromagnetic multilayers. *Journal of Computational Physics*, 224(2):699–711, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005456>.

Guo:2005:GSL

- [GD05] Daniel X. Guo and John B. Drake. A global semi-Lagrangian spectral model of the shallow water equations with variable resolution. *Journal of Computational Physics*, 206(2):559–577, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000057>.

Ghanem:2006:CAS

- [GD06a] Roger G. Ghanem and Alireza Doostan. On the construction and analysis of stochastic models: Characterization and propagation of the errors associated with limited data. *Journal of Computational Physics*, 217(1):63–81, September 1,

2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000386>.

Gumerov:2006:FMM

- [GD06b] Nail A. Gumerov and Ramani Duraiswami. Fast multipole method for the biharmonic equation in three dimensions. *Journal of Computational Physics*, 215(1):363–383, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004924>.

Guillard:2007:DLD

- [GD07a] H. Guillard and F. Duval. A Darcy law for the drift velocity in a two-phase flow model. *Journal of Computational Physics*, 224(1):288–313, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000769>.

Gumerov:2007:SPF

- [GD07b] Nail A. Gumerov and Ramani Duraiswami. A scalar potential formulation and translation theory for the time-harmonic Maxwell equations. *Journal of Computational Physics*, 225(1):206–236, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005845>.

Gumerov:2008:FMM

- [GD08] Nail A. Gumerov and Ramani Duraiswami. Fast multipole methods on graphics processors. *Journal of Computational Physics*, 227(18):8290–8313, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002921>.

Gu:2007:CSR

- [GE07] X. J. Gu and D. R. Emerson. A computational strategy for the regularized 13 moment equations with enhanced wall-boundary conditions. *Journal of Computational Physics*, 225(1):263–283, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999106005882>.

Gelfgat:2006:IAI

- [Gel06] Alexander Yu. Gelfgat. Implementation of arbitrary inner product in the global Galerkin method for incompressible Navier–Stokes equations. *Journal of Computational Physics*, 211(2):513–530, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002858>.

Gentile:2001:IMC

- [Gen01] N. A. Gentile. Implicit Monte Carlo diffusion — an acceleration method for Monte Carlo time-dependent radiative transfer simulations. *Journal of Computational Physics*, 172(2):543–571, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968366>.

George:2008:ARS

- [Geo08] David L. George. Augmented Riemann solvers for the shallow water equations over variable topography with steady states and inundation. *Journal of Computational Physics*, 227(6):3089–3113, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004767>.

Giese:2002:GMH

- [GF02] Guido Giese and Michael Fey. A genuinely multidimensional high-resolution scheme for the elastic-plastic wave equation. *Journal of Computational Physics*, 181(1):338–353, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971299>.

Gibou:2005:FOA

- [GF05a] Frédéric Gibou and Ronald Fedkiw. A fourth order accurate discretization for the Laplace and heat equations on arbitrary domains, with applications to the Stefan problem. *Journal of Computational Physics*, 202(2):577–601, January

20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002980>.

Guy:2005:SAP

- [GF05b] Robert D. Guy and Aaron L. Fogelson. Stability of approximate projection methods on cell-centered grids. *Journal of Computational Physics*, 203(2):517–538, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003900>.

Gibou:2002:SOA

- [GFCK02] Frederic Gibou, Ronald P. Fedkiw, Li-Tien Cheng, and Myungjoo Kang. A second-order-accurate symmetric discretization of the Poisson equation on irregular domains. *Journal of Computational Physics*, 176(1):205–227, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969773>.

Gao:2009:PFM

- [GFG09] Ling-Tian Gao, Xi-Qiao Feng, and Huajian Gao. A phase field method for simulating morphological evolution of vesicles in electric fields. *Journal of Computational Physics*, 228(11):4162–4181, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001065>.

Giannakis:2009:SGM

- [GFR09] Dimitrios Giannakis, Paul F. Fischer, and Robert Rosner. A spectral Galerkin method for the coupled Orr–Sommerfeld and induction equations for free-surface MHD. *Journal of Computational Physics*, 228(4):1188–1233, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005445>.

Gavrilyuk:2008:MWD

- [GFS08] S. L. Gavrilyuk, N. Favrie, and R. Saurel. Modelling wave dynamics of compressible elastic materials. *Journal of Computational Physics*, 227(5):2941–2969, February 20, 2008. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005220>.

Garcke:2000:CEH

- [GG00] Jochen Garcke and Michael Griebel. On the computation of the eigenproblems of hydrogen and helium in strong magnetic and electric fields with the sparse grid combination technique. *Journal of Computational Physics*, 165(2):694–716, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966270>.

Ganesh:2004:HOA

- [GG04] M. Ganesh and I. G. Graham. A high-order algorithm for obstacle scattering in three dimensions. *Journal of Computational Physics*, 198(1):211–242, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000257>.

Gimbutas:2009:FSM

- [GG09a] Z. Gimbutas and L. Greengard. A fast and stable method for rotating spherical harmonic expansions. *Journal of Computational Physics*, 228(16):5621–5627, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002691>.

Gotovac:2009:MEA

- [GG09b] Hrvoje Gotovac and Blaz Gotovac. Maximum entropy algorithm with inexact upper entropy bound based on fup basis functions with compact support. *Journal of Computational Physics*, 228(24):9079–9091, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004963>.

Guidoboni:2009:SLC

- [GGCC09] Giovanna Guidoboni, Roland Glowinski, Nicola Cavallini, and Suncica Canic. Stable loosely-coupled-type algorithm for fluid-structure interaction in blood flow. *Journal of Computational Physics*, 228(18):6916–6937, October 1, 2009. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003295>.

Geuzaine:2003:DAA

- [GGF03] Philippe Geuzaine, Céline Grandmont, and Charbel Farhat. Design and analysis of ALE schemes with provable second-order time-accuracy for inviscid and viscous flow simulations. *Journal of Computational Physics*, 191(1):206–227, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003115>.

Glimm:2001:CAR

- [GGL⁺01] J. Glimm, J. W. Grove, X. L. Li, W. Oh, and D. H. Sharp. A critical analysis of Rayleigh–Taylor growth rates. *Journal of Computational Physics*, 169(2):652–677, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965902>.

Gerardo-Giorda:2009:MBB

- [GGMN⁺09] L. Gerardo-Giorda, L. Mirabella, F. Nobile, M. Perego, and A. Veneziani. A model-based block-triangular preconditioner for the bidomain system in electrocardiology. *Journal of Computational Physics*, 228(10):3625–3639, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000618>.

Gondarenko:2004:PML

- [GGOB04] Natalia A. Gondarenko, Parvez N. Guzdar, Sidney L. Ossakow, and Paul A. Bernhardt. Perfectly matched layers for radio wave propagation in inhomogeneous magnetized plasmas. *Journal of Computational Physics*, 194(2):481–504, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004923>.

Glowinski:2006:WDI

- [GGP06] R. Glowinski, G. Guidoboni, and T.-W. Pan. Wall-driven incompressible viscous flow in a two-dimensional semi-circular cavity. *Journal of Computational Physics*, 216(1):76–91, July

20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005437>.

Gonzalez:2008:ESM

- [GGRS08] Leonel Gonzalez, Shekhar Guha, James W. Rogers, and Qin Sheng. An effective z -stretching method for paraxial light beam propagation simulations. *Journal of Computational Physics*, 227(15):7264–7278, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002258>.

Garzon:2009:NSN

- [GGS09] M. Garzon, L. J. Gray, and J. A. Sethian. Numerical simulation of non-viscous liquid pinch-off using a coupled level set-boundary integral method. *Journal of Computational Physics*, 228(17):6079–6106, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002344>.

Greengard:2002:NVF

- [GH02] Leslie F. Greengard and Jingfang Huang. A new version of the fast multipole method for screened Coulomb interactions in three dimensions. *Journal of Computational Physics*, 180(2):642–658, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297110X>.

Garba:2003:CPC

- [GH03] Abdou Garba and Pierre Haldenwang. Comparison of preconditioners for collocation Chebyshev approximation of 2D and 3D generalized Stokes problem. *Journal of Computational Physics*, 191(1):282–304, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003176>.

Ganesh:2008:HOT

- [GH08a] M. Ganesh and S. C. Hawkins. A high-order tangential basis algorithm for electromagnetic scattering by curved sur-

faces. *Journal of Computational Physics*, 227(9):4543–4562, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000351>.

Guan:2008:FDM

- [GH08b] Wei Guan and Hengshan Hu. Finite-difference modeling of the electroseismic logging in a fluid-saturated porous formation. *Journal of Computational Physics*, 227(11):5633–5648, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001022>.

Gao:2009:DEP

- [GH09] Tong Gao and Howard H. Hu. Deformation of elastic particles in viscous shear flow. *Journal of Computational Physics*, 228(6):2132–2151, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006219>.

Ghizzo:2003:NPS

- [GHB03] A. Ghizzo, F. Huot, and P. Bertrand. A non-periodic 2D semi-Lagrangian Vlasov code for laser-plasma interaction on parallel computer. *Journal of Computational Physics*, 186(1):47–69, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300010X>.

Ghadiali:2001:DRB

- [GHG01] Samir N. Ghadiali, David Halpern, and Donald P. Gaver III. A dual-reciprocity boundary element method for evaluating bulk convective transport of surfactant in free-surface flows. *Journal of Computational Physics*, 171(2):534–559, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967920>.

Griffith:2007:AFS

- [GHMP07] Boyce E. Griffith, Richard D. Hornung, David M. McQueen, and Charles S. Peskin. An adaptive, formally second order

accurate version of the immersed boundary method. *Journal of Computational Physics*, 223(1):10–49, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004207>.

Gilles:2000:CBS

- [GHV00] L. Gilles, S. C. Hagness, and L. Vázquez. Comparison between staggered and unstaggered finite-difference time-domain grids for few-cycle temporal optical soliton propagation. *Journal of Computational Physics*, 161(2):379–400, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096460X>.

Giraldo:2002:NHO

- [GHW02] F. X. Giraldo, J. S. Hesthaven, and T. Warburton. Nodal high-order discontinuous Galerkin methods for the spherical shallow water equations. *Journal of Computational Physics*, 181(2):499–525, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971391>.

Gitelman:2007:MSL

- [GIA⁺07] L. Gitelman, M. Israeli, A. Averbuch, M. Nathan, Z. Schuss, and D. Golodnitsky. Modeling and simulation of li-ion conduction in poly(ethylene oxide). *Journal of Computational Physics*, 227(2):1162–1175, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003865>.

Gitelman:2008:PGL

- [GIA⁺08] L. Gitelman, M. Israeli, A. Averbuch, M. Nathan, Z. Schuss, and D. Golodnitsky. Polymer geometry and Li⁺ conduction in poly(ethylene oxide). *Journal of Computational Physics*, 227(18):8437–8447, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003264>.

Gibbs:2004:PRA

- [Gib04] W. R. Gibbs. A parallel/recursive algorithm. *Journal of Computational Physics*, 201(2):573–585, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002438>.

Giraldo:2000:LGM

- [Gir00] Francis X. Giraldo. Lagrange–Galerkin methods on spherical geodesic grids: The shallow water equations. *Journal of Computational Physics*, 160(1):336–368, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964696>.

Giraldo:2006:HOT

- [Gir06] Francis X. Giraldo. High-order triangle-based discontinuous Galerkin methods for hyperbolic equations on a rotating sphere. *Journal of Computational Physics*, 214(2):447–465, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004535>.

Givoli:2001:HON

- [Giv01] Dan Givoli. High-order nonreflecting boundary conditions without high-order derivatives. *Journal of Computational Physics*, 170(2):849–870, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196766X>.

Graf:2009:NVC

- [GJK09] Peter A. Graf, Wesley B. Jones, and Kwiseon Kim. A note on the virtual crystal approach to alloy optimization. *Journal of Computational Physics*, 228(12):4309–4311, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001454>.

Giladi:2001:HNA

- [GK01] Eldar Giladi and Joseph B. Keller. A hybrid numerical asymptotic method for scattering problems. *Journal of Compu-*

tational Physics, 174(1):226–247, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969037>.

Goodson:2002:ESA

- [GK02] Michael Goodson and Markus Kraft. An efficient stochastic algorithm for simulating nano-particle dynamics. *Journal of Computational Physics*, 183(1):210–232, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971925>.

Gear:2003:TPM

- [GK03] C. W. Gear and Ioannis G. Kevrekidis. Telescopic projective methods for parabolic differential equations. *Journal of Computational Physics*, 187(1):95–109, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000822>.

Grote:2004:DNB

- [GK04] Marcus J. Grote and Christoph Kirsch. Dirichlet-to-Neumann boundary conditions for multiple scattering problems. *Journal of Computational Physics*, 201(2):630–650, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400258X>.

Gupta:2005:NPS

- [GK05] Murli M. Gupta and Jiten C. Kalita. A new paradigm for solving Navier–Stokes equations: streamfunction-velocity formulation. *Journal of Computational Physics*, 207(1):52–68, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000161>.

Grote:2007:NBC

- [GK07] Marcus J. Grote and Christoph Kirsch. Nonreflecting boundary condition for time-dependent multiple scattering. *Journal of Computational Physics*, 221(1):41–62, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002749>.

Ginste:2009:ECP

- [GKD09] Dries Vande Ginste, Luc Knockaert, and Daniël De Zutter. Error control in the perfectly matched layer based multilevel fast multipole algorithm. *Journal of Computational Physics*, 228(13):4811–4822, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001661>.

Green:2004:ODU

- [GKE04] Kirk Green, Bernd Krauskopf, and Koen Engelborghs. One-dimensional unstable eigenfunction and manifold computations in delay differential equations. *Journal of Computational Physics*, 197(1):86–98, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300620X>.

Graf:2007:SPO

- [GKJW07] Peter A. Graf, Kwiseon Kim, Wesley B. Jones, and Lin-Wang Wang. Surface passivation optimization using DIRECT. *Journal of Computational Physics*, 224(2):824–835, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600550X>.

Gryazin:2000:GCH

- [GKL00] Yuriy A. Gryazin, Michael V. Klibanov, and Thomas R. Lucas. GMRES computation of high frequency electrical field propagation in land mine detection. *Journal of Computational Physics*, 158(1):98–115, February 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964094>.

Gryazin:2003:TNM

- [GKL03] Yuriy A. Gryazin, Michael V. Klibanov, and Thomas R. Lucas. Two numerical methods for an inverse problem for the 2-D Helmholtz equation. *Journal of Computational Physics*, 184(1):122–148, January 1, 2003. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000232>.

Grigoriadis:2009:IBM

- [GKV09] D. G. E. Grigoriadis, S. C. Kassinos, and E. V. Votyakov. Immersed boundary method for the MHD flows of liquid metals. *Journal of Computational Physics*, 228(3):903–920, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005305>.

Greengard:2006:EHC

- [GL06] Leslie Greengard and June-Yub Lee. Electrostatics and heat conduction in high contrast composite materials. *Journal of Computational Physics*, 211(1):64–76, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002615>.

Gyrya:2008:HOM

- [GL08] Vitaliy Gyrya and Konstantin Lipnikov. High-order mimetic finite difference method for diffusion problems on polygonal meshes. *Journal of Computational Physics*, 227(20):8841–8854, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003483>.

Goodman:2009:CCV

- [GL09a] Jonathan B. Goodman and Kevin K. Lin. Coupling control variates for Markov chain Monte Carlo. *Journal of Computational Physics*, 228(19):7127–7136, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001685>.

Gunter:2009:MIE

- [GL09b] S. Günter and K. Lackner. A mixed implicit-explicit finite difference scheme for heat transport in magnetised plasmas. *Journal of Computational Physics*, 228(2):282–293, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004786>.

Glasner:2001:NPD

- [Gla01] Karl Glasner. Nonlinear preconditioning for diffuse interfaces. *Journal of Computational Physics*, 174(2):695–711, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969335>.

Glasner:2005:BIF

- [Gla05] K. B. Glasner. A boundary integral formulation of quasi-steady fluid wetting. *Journal of Computational Physics*, 207(2):529–541, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000392>.

Gerbeau:2003:SMF

- [GLL03] J.-F. Gerbeau, T. Lelièvre, and C. Le Bris. Simulations of MHD flows with moving interfaces. *Journal of Computational Physics*, 184(1):163–191, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000256>.

Guermond:2007:IPG

- [GLLN07] J.-L. Guermond, R. Laguerre, J. Léorat, and C. Nore. An interior penalty Galerkin method for the MHD equations in heterogeneous domains. *Journal of Computational Physics*, 221(1):349–369, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002944>.

Guermond:2009:NMA

- [GLLN09] J.-L. Guermond, R. Laguerre, J. Léorat, and C. Nore. Nonlinear magnetohydrodynamics in axisymmetric heterogeneous domains using a Fourier/finite element technique and an interior penalty method. *Journal of Computational Physics*, 228(8):2739–2757, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006463>.

Guo:2008:CSL

- [GLLX08] Zhaoli Guo, Hongwei Liu, Li-Shi Luo, and Kun Xu. A comparative study of the LBE and GKS methods for 2D near incompressible laminar flows. *Journal of Computational Physics*, 227(10):4955–4976, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000545>.

Gassner:2007:CCD

- [GLM07] Gregor Gassner, Frieder Lörcher, and Claus-Dieter Munz. A contribution to the construction of diffusion fluxes for finite volume and discontinuous Galerkin schemes. *Journal of Computational Physics*, 224(2):1049–1063, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005651>.

Gassner:2009:PNE

- [GLMH09] Gregor J. Gassner, Frieder Lörcher, Claus-Dieter Munz, and Jan S. Hesthaven. Polymorphic nodal elements and their application in discontinuous Galerkin methods. *Journal of Computational Physics*, 228(5):1573–1590, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005834>.

Gourdain:2006:HRM

- [GLN06] P.-A. Gourdain, J.-N. Leboeuf, and R. Y. Neches. High-resolution magnetohydrodynamic equilibrium code for unity beta plasmas. *Journal of Computational Physics*, 216(1):275–299, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005528>.

Girard:2003:NSP

- [GLS03] Alain Girard, Christian Lécot, and Konstantin Serebrennikov. Numerical simulation of the plasma of an electron cyclotron resonance ion source. *Journal of Computational Physics*, 191(1):228–248, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003127>.

Gunter:2007:FEH

- [GLT07] S. Günter, K. Lackner, and C. Tichmann. Finite element and higher order difference formulations for modelling heat transport in magnetised plasmas. *Journal of Computational Physics*, 226(2):2306–2316, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003166>.

Gelbard:2001:MQS

- [GM01a] F. Gelbard and K. J. Malloy. Modeling quantum structures with the boundary element method. *Journal of Computational Physics*, 172(1):19–39, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967518>.

Gremaud:2001:CSH

- [GM01b] Pierre A. Gremaud and John V. Matthews. On the computation of steady hopper flows: I. Stress determination for Coulomb materials. *Journal of Computational Physics*, 166(1):63–83, January 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966415>.

Guseinov:2001:CTF

- [GM01c] I. I. Guseinov and B. A. Mamedov. Convergence of translation formulas for the computation of multicenter integrals over Slater orbitals. *Journal of Computational Physics*, 174(1):428–437, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969244>.

Gosse:2004:MSAa

- [GM04] Laurent Gosse and Peter A. Markowich. Multiphase semiclassical approximation of an electron in a one-dimensional crystalline lattice: I. Homogeneous problems. *Journal of Computational Physics*, 197(2):387–417, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006454>.

Gosse:2006:MSA

- [GM06] Laurent Gosse and Norbert J. Mauser. Multiphase semi-classical approximation of an electron in a one-dimensional crystalline lattice — III. From ab initio models to WKB for Schrödinger–Poisson. *Journal of Computational Physics*, 211(1):326–346, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002779>.

Goldsworthy:2009:SUF

- [GMAj09] Mark Goldsworthy, Michael Macrossan, and Madhat Abdeljawad. Simulation of unsteady flows by the DSMC macroscopic chemistry method. *Journal of Computational Physics*, 228(4):976–982, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004750>.

Gerlinger:2001:IMM

- [GMB01] Peter Gerlinger, Helge Möbus, and Dieter Brüggemann. An implicit multigrid method for turbulent combustion. *Journal of Computational Physics*, 167(2):247–276, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966713>.

Gao:2003:NSW

- [GMD03] D. Gao, N. B. Morley, and V. Dhir. Numerical simulation of wavy falling film flow using VOF method. *Journal of Computational Physics*, 192(2):624–642, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300411X>.

Ghias:2007:SII

- [GMD07] R. Ghias, R. Mittal, and H. Dong. A sharp interface immersed boundary method for compressible viscous flows. *Journal of Computational Physics*, 225(1):528–553, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006048>.

Griesheimer:2006:CPM

- [GMH06] David P. Griesheimer, William R. Martin, and James Paul Holloway. Convergence properties of Monte Carlo functional expansion tallies. *Journal of Computational Physics*, 211(1):129–153, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002652>.

Gremaud:2004:CSH

- [GMO04] Pierre A. Gremaud, John V. Matthews, and Meghan O'Malley. On the computation of steady hopper flows: II: von Mises materials in various geometries. *Journal of Computational Physics*, 200(2):639–653, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001822>.

Gremaud:2006:CSH

- [GMS06] Pierre A. Gremaud, John V. Matthews, and David G. Schaeffer. On the computation of steady hopper flows III: Model comparisons. *Journal of Computational Physics*, 219(1):443–454, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001719>.

Givoli:2003:HON

- [GN03] Dan Givoli and Beny Neta. High-order non-reflecting boundary scheme for time-dependent waves. *Journal of Computational Physics*, 186(1):24–46, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000056>.

Gong:2007:SEH

- [GN07] Jing Gong and Jan Nordström. A stable and efficient hybrid scheme for viscous problems in complex geometries. *Journal of Computational Physics*, 226(2):1291–1309, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002343>.

Gois:2008:FTM

- [GNNB08] João Paulo Gois, Anderson Nakano, Luis Gustavo Nonato, and Gustavo C. Buscaglia. Front tracking with moving-least-squares surfaces. *Journal of Computational Physics*, 227(22):9643–9669, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003951>.

Goedbloed:2000:EFT

- [Goe00] J. P. Goedbloed. Expansion functions for two-dimensional incompressible fluid flow in arbitrary domains. *Journal of Computational Physics*, 160(1):283–297, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964623>.

Gomez:2008:PWD

- [Gom08] T. Gomez. Pseudo-wave decomposition high-order method for magnetogasdynamics. *Journal of Computational Physics*, 227(20):8909–8921, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003689>.

Gonnet:2007:PSQ

- [Gon07] Pedro Gonnet. P-SHAKE: a quadratically convergent SHAKE in $O(n^2)$. *Journal of Computational Physics*, 220(2):740–750, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002579>.

Gosse:2002:UBE

- [Gos02] Laurent Gosse. Using K -branch entropy solutions for multivalued geometric optics computations. *Journal of Computational Physics*, 180(1):155–182, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970853>.

Gosse:2004:MSAb

- [Gos04] Laurent Gosse. Multiphase semiclassical approximation of an electron in a one-dimensional crystalline lattice II. Impuri-

ties, confinement and Bloch oscillations. *Journal of Computational Physics*, 201(1):344–375, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002335>.

Gerritsma:2000:SEM

- [GP00a] M. I. Gerritsma and T. N. Phillips. Spectral element methods for axisymmetric Stokes problems. *Journal of Computational Physics*, 164(1):81–103, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965744>.

Gonthier:2000:HRN

- [GP00b] Keith A. Gonthier and Joseph M. Powers. A high-resolution numerical method for a two-phase model of deflagration-to-detonation transition. *Journal of Computational Physics*, 163(2):376–433, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965690>.

Givoli:2004:DNB

- [GP04] Dan Givoli and Igor Patlashenko. Dirichlet-to-Neumann boundary condition for time-dependent dispersive waves in three-dimensional guides. *Journal of Computational Physics*, 199(1):339–354, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000877>.

Griffith:2005:OAI

- [GP05] Boyce E. Griffith and Charles S. Peskin. On the order of accuracy of the immersed boundary method: Higher order convergence rates for sufficiently smooth problems. *Journal of Computational Physics*, 208(1):75–105, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000835>.

Gallardo:2007:WBH

- [GPC07] José M. Gallardo, Carlos Parés, and Manuel Castro. On a well-balanced high-order finite volume scheme for shallow water equations with topography and dry areas. *Journal of Computational Physics*, 227(1):574–601, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003488>.

Giraldo:2003:SES

- [GPF03] F. X. Giraldo, J. B. Perot, and P. F. Fischer. A spectral element semi-Lagrangian (SESL) method for the spherical shallow water equations. *Journal of Computational Physics*, 190(2):623–650, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003000>.

Glowinski:2001:FDA

- [GPH⁺01] R. Glowinski, T. W. Pan, T. I. Hesla, D. D. Joseph, and J. Périaux. A fictitious domain approach to the direct numerical simulation of incompressible viscous flow past moving rigid bodies: Application to particulate flow. *Journal of Computational Physics*, 169(2):363–426, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965422>.

Goyal:2005:NDL

- [GPL05] S. Goyal, N. C. Perkins, and C. L. Lee. Nonlinear dynamics and loop formation in Kirchhoff rods with implications to the mechanics of DNA and cables. *Journal of Computational Physics*, 209(1):371–389, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500183X>.

Grandison:2007:RBI

- [GPVB07] Scott Grandison, Robert Penfold, and Jean-Marc Vanden-Broeck. A rapid boundary integral equation technique for protein electrostatics. *Journal of Computational Physics*, 224(2):663–680, June 10, 2007. CODEN JCTPAH. ISSN

0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005432>.

Guermond:2000:PFV

- [GQ00] J.-L. Guermond and L. Quartapelle. A projection FEM for variable density incompressible flows. *Journal of Computational Physics*, 165(1):167–188, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966099>.

Garikipati:2001:RAM

- [GR01] Krishna Garikipati and Vinay S. Rao. Recent advances in models for thermal oxidation of silicon. *Journal of Computational Physics*, 174(1):138–170, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968846>.

Greenough:2004:QCN

- [GR04] J. A. Greenough and W. J. Rider. A quantitative comparison of numerical methods for the compressible Euler equations: fifth-order WENO and piecewise-linear Godunov. *Journal of Computational Physics*, 196(1):259–281, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005965>.

Gross:2007:EPF

- [GR07] Sven Groß and Arnold Reusken. An extended pressure finite element space for two-phase incompressible flows with surface tension. *Journal of Computational Physics*, 224(1):40–58, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006097>.

Giraldo:2008:SSE

- [GR08] F. X. Giraldo and M. Restelli. A study of spectral element and discontinuous Galerkin methods for the Navier–Stokes equations in nonhydrostatic mesoscale atmospheric modeling: Equation sets and test cases. *Journal of Computational Physics*, 227(8):3849–3877, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005384>.

Gravemeier:2006:CDL

- [Gra06a] Volker Gravemeier. A consistent dynamic localization model for large eddy simulation of turbulent flows based on a variational formulation. *Journal of Computational Physics*, 218(2):677–701, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001264>.

Gravemeier:2006:SSO

- [Gra06b] Volker Gravemeier. Scale-separating operators for variational multiscale large eddy simulation of turbulent flows. *Journal of Computational Physics*, 212(2):400–435, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003268>.

Greaves:2004:QAM

- [Gre04] Deborah Greaves. A quadtree adaptive method for simulating fluid flows with moving interfaces. *Journal of Computational Physics*, 194(1):35–56, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004595>.

Griffith:2009:AEM

- [Gri09] Boyce E. Griffith. An accurate and efficient method for the incompressible Navier–Stokes equations using the projection method as a preconditioner. *Journal of Computational Physics*, 228(20):7565–7595, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003787>.

Grote:2000:NBC

- [Gro00] Marcus J. Grote. Nonreflecting boundary conditions for elastodynamic scattering. *Journal of Computational Physics*, 161(1):331–353, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999100965094>.

Grogger:2006:FDA

- [Gro06] Herwig A. Grogger. Finite difference approximations of first derivatives for two-dimensional grid singularities. *Journal of Computational Physics*, 217(2):642–657, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000271>.

Grogger:2007:FDA

- [Gro07] Herwig A. Grogger. Finite difference approximations of first derivatives for three-dimensional grid singularities. *Journal of Computational Physics*, 225(2):2377–2397, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001386>.

Gavrilyuk:2002:MNM

- [GS02] Sergey Gavrilyuk and Richard Saurel. Mathematical and numerical modeling of two-phase compressible flows with micro-inertia. *Journal of Computational Physics*, 175(1):326–360, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969517>.

Garbey:2003:LSE

- [GS03a] M. Garbey and W. Shyy. A least square extrapolation method for improving solution accuracy of PDE computations. *Journal of Computational Physics*, 186(1):1–23, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000803>.

Ginzburg:2003:LBM

- [GS03b] Irina Ginzburg and Konrad Steiner. Lattice Boltzmann model for free-surface flow and its application to filling process in casting. *Journal of Computational Physics*, 185(1):61–99, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000487>.

Grauer:2003:NUC

- [GS03c] R. Grauer and F. Spanier. A note on the use of central schemes for incompressible Navier–Stokes flows. *Journal of Computational Physics*, 192(2):727–731, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004030>.

Guermond:2003:NCT

- [GS03d] J. L. Guermond and Jie Shen. A new class of truly consistent splitting schemes for incompressible flows. *Journal of Computational Physics*, 192(1):262–276, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003784>.

Galler:2005:DST

- [GS05a] M. Galler and F. Schürer. A deterministic solver for the transport of the AlGaNd/GaN 2D electron gas including hot-phonon and degeneracy effects. *Journal of Computational Physics*, 210(2):519–534, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002494>.

Gardiner:2005:UGM

- [GS05b] Thomas A. Gardiner and James M. Stone. An unsplit Godunov method for ideal MHD via constrained transport. *Journal of Computational Physics*, 205(2):509–539, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004784>.

Gilmanov:2005:HCI

- [GS05c] Anvar Gilmanov and Fotis Sotiropoulos. A hybrid Cartesian/immersed boundary method for simulating flows with 3D, geometrically complex, moving bodies. *Journal of Computational Physics*, 207(2):457–492, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000379>.

Galler:2006:DMW

- [GS06a] M. Galler and F. Schürer. A direct multigroup-WENO solver for the 2D non-stationary Boltzmann–Poisson system for GaAs devices: GaAs–MESFET. *Journal of Computational Physics*, 212(2):778–797, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003724>.

Gibelli:2006:SCH

- [GS06b] Livio Gibelli and Bernie D. Shizgal. Spectral convergence of the Hermite basis function solution of the Vlasov equation: The free-streaming term. *Journal of Computational Physics*, 219(2):477–488, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002890>.

Ge:2007:NMS

- [GS07] Liang Ge and Fotis Sotiropoulos. A numerical method for solving the 3D unsteady incompressible Navier–Stokes equations in curvilinear domains with complex immersed boundaries. *Journal of Computational Physics*, 225(2):1782–1809, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000873>.

Gardiner:2008:UGM

- [GS08] Thomas A. Gardiner and James M. Stone. An unsplit Godunov method for ideal MHD via constrained transport in three dimensions. *Journal of Computational Physics*, 227(8):4123–4141, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005669>.

Garnier:2009:TWP

- [GS09a] Josselin Garnier and Knut Sølna. A two-way paraxial system for simulation of wave backscattering by a random medium. *Journal of Computational Physics*, 228(9):3307–3325, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000370>.

Gatsonis:2009:TDE

- [GS09b] Nikolaos A. Gatsonis and Anton Spirkin. A three-dimensional electrostatic particle-in-cell methodology on unstructured Delaunay–Voronoi grids. *Journal of Computational Physics*, 228(10):3742–3761, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000692>.

Guermond:2009:SMI

- [GS09c] J.-L. Guermond and Abner Salgado. A splitting method for incompressible flows with variable density based on a pressure Poisson equation. *Journal of Computational Physics*, 228(8):2834–2846, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006748>.

Guo:2009:GMW

- [GS09d] Xin Guo and Lian Shen. On the generation and maintenance of waves and turbulence in simulations of free-surface turbulence. *Journal of Computational Physics*, 228(19):7313–7332, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003581>.

Gilmanov:2003:GRA

- [GSB03] A. Gilmanov, F. Sotiropoulos, and E. Balaras. A general reconstruction algorithm for simulating flows with complex 3D immersed boundaries on Cartesian grids. *Journal of Computational Physics*, 191(2):660–669, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003218>.

Garnier:2001:CEE

- [GSD01] Eric Garnier, Pierre Sagaut, and Michel Deville. A class of explicit ENO filters with application to unsteady flows. *Journal of Computational Physics*, 170(1):184–204, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967324>.

Gunes:2006:GDK

- [GSK06] Hasan Gunes, Sirod Sirisup, and George Em Karniadakis. Gappy data: To krig or not to krig? *Journal of Computational Physics*, 212(1):358–382, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003256>.

Gil:2000:CTF

- [GST00] Amparo Gil, Javier Segura, and Nico M. Temme. Computing toroidal functions for wide ranges of the parameters. *Journal of Computational Physics*, 161(1):204–217, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964982>.

Gil:2002:EMB

- [GST02] Amparo Gil, Javier Segura, and Nico M. Temme. Evaluation of the modified Bessel function of the third kind of imaginary orders. *Journal of Computational Physics*, 175(2):398–411, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968949>.

Gervasio:2006:AFS

- [GSV06] Paola Gervasio, Fausto Saleri, and Alessandro Veneziani. Algebraic fractional-step schemes with spectral methods for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 214(1):347–365, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004493>.

Gerolymos:2009:VHO

- [GSV09] G. A. Gerolymos, D. Sénéchal, and I. Vallet. Very-high-order Weno schemes. *Journal of Computational Physics*, 228(23):8481–8524, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003908>.

Guo:2000:LBM

- [GSW00] Zhaoli Guo, Baochang Shi, and Nengchao Wang. Lattice BGK model for incompressible Navier–Stokes equation. *Journal of Computational Physics*, 165(1):288–306, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966166>.

Glowinski:2005:MPA

- [GT05] Roland Glowinski and Jari Toivanen. A multigrid preconditioner and automatic differentiation for non-equilibrium radiation diffusion problems. *Journal of Computational Physics*, 207(1):354–374, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500032X>.

Gamba:2009:SLM

- [GT09a] Irene M. Gamba and Sri Harsha Tharkabhushanam. Spectral-Lagrangian methods for collisional models of non-equilibrium statistical states. *Journal of Computational Physics*, 228(6):2012–2036, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800613X>.

Ganesan:2009:CAL

- [GT09b] Sashikumaar Ganesan and Lutz Tobiska. A coupled arbitrary Lagrangian–Eulerian and Lagrangian method for computation of free surface flows with insoluble surfactants. *Journal of Computational Physics*, 228(8):2859–2873, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000047>.

Guddati:2009:PAB

- [GT09c] Murthy N. Guddati and Senganal Thirunavukkarasu. Phonon absorbing boundary conditions for molecular dynamics. *Journal of Computational Physics*, 228(21):8112–8134, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004197>.

Garbey:2000:PAC

- [GTD00] M. Garbey and D. Tromeur-Dervout. A parallel adaptive coupling algorithm for systems of differential equations. *Journal of Computational Physics*, 161(2):401–427, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965008>.

Garbey:2001:PAL

- [GTD01] Marc Garbey and Damien Tromeur-Dervout. Parallel algorithms with local Fourier basis. *Journal of Computational Physics*, 173(2):575–599, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968950>.

Gombosi:2002:SMP

- [GTD⁺02] Tamas I. Gombosi, Gábor Tóth, Darren L. De Zeeuw, Kenneth C. Hansen, Konstantin Kabin, and Kenneth G. Powell. Semirelativistic magnetohydrodynamics and physics-based convergence acceleration. *Journal of Computational Physics*, 177(1):176–205, March 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970099>.

Graves:2008:ESE

- [GTMC08] D. T. Graves, D. Trebotich, G. H. Miller, and P. Colella. An efficient solver for the equations of resistive MHD with spatially-varying resistivity. *Journal of Computational Physics*, 227(10):4797–4804, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000193>.

Gallis:2009:CBN

- [GTRB09] M. A. Gallis, J. R. Torczynski, D. J. Rader, and G. A. Bird. Convergence behavior of a new DSMC algorithm. *Journal of Computational Physics*, 228(12):4532–4548, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001429>.

Guangwu:2000:LBE

- [Gua00] Yan Guangwu. A lattice Boltzmann equation for waves. *Journal of Computational Physics*, 161(1):61–69, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964866>.

Guinot:2002:TLI

- [Gui02] Vincent Guinot. The time-line interpolation method for large-time-step Godunov-type schemes. *Journal of Computational Physics*, 177(2):394–417, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970130>.

Guidotti:2003:NFK

- [Gui03] Patrick Guidotti. A new first kind boundary integral formulation for the Dirichlet-to-Neumann map in 2D. *Journal of Computational Physics*, 190(1):325–345, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002778>.

Guinot:2005:ATD

- [Gui05] Vincent Guinot. An approximate two-dimensional Riemann solver for hyperbolic systems of conservation laws. *Journal of Computational Physics*, 205(1):292–314, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004681>.

Gutman:2000:IMP

- [Gut00] S. Gutman. Identification of multilayered particles from scattering data by a clustering method. *Journal of Computational Physics*, 163(2):529–546, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965847>.

Guardone:2002:RLV

- [GV02] A. Guardone and L. Vigevano. Roe linearization for the van der Waals gas. *Journal of Computational Physics*, 175(1):

50–78, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969153>.

Goussis:2006:EIA

- [GV06] Dimitris A. Goussis and Mauro Valorani. An efficient iterative algorithm for the approximation of the fast and slow dynamics of stiff systems. *Journal of Computational Physics*, 214(1):316–346, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004481>.

Guardone:2007:FEV

- [GV07] A. Guardone and L. Vigeveno. Finite element/volume solution to axisymmetric conservation laws. *Journal of Computational Physics*, 224(2):489–518, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004232>.

Galusinski:2008:SCB

- [GV08] Cédric Galusinski and Paul Vigneaux. On stability condition for bifluid flows with surface tension: Application to microfluidics. *Journal of Computational Physics*, 227(12):6140–6164, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001253>.

Gilad:2006:FAC

- [GvH06] Erez Gilad and Jost von Hardenberg. A fast algorithm for convolution integrals with space and time variant kernels. *Journal of Computational Physics*, 216(1):326–336, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005541>.

Gozadinos:2001:BCP

- [GVT01] G. Gozadinos, D. Vender, and M. M. Turner. Boundary conditions and particle loading for the modeling of a semi-infinite plasma. *Journal of Computational Physics*, 172(1):348–355, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999101968275>.

Ginzburg:2001:TPF

- [GW01] I. Ginzburg and G. Wittum. Two-phase flows on interface refined grids modeled with VOF, staggered finite volumes, and spline interpolants. *Journal of Computational Physics*, 166(2):302–335, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966555>.

George:2002:PDG

- [GW02] William L. George and James A. Warren. A parallel 3D dendritic growth simulator using the phase-field method. *Journal of Computational Physics*, 177(2):264–283, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970051>.

Giraldo:2005:NTB

- [GW05] F. X. Giraldo and T. Warburton. A nodal triangle-based spectral element method for the shallow water equations on the sphere. *Journal of Computational Physics*, 207(1):129–150, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000203>.

Garcia:2006:GMI

- [GW06] Alejandro L. Garcia and Wolfgang Wagner. Generation of the Maxwellian inflow distribution. *Journal of Computational Physics*, 217(2):693–708, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000313>.

Gomberoff:2007:MOT

- [GWF⁺07] K. Gomberoff, J. Wurtele, A. Friedman, D. P. Grote, and J.-L. Vay. A method for obtaining three-dimensional computational equilibrium of non-neutral plasmas using WARP. *Journal of Computational Physics*, 225(2):1736–1752, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000848>.

Gao:2007:NHE

- [GXW07] Bo Gao, Shan-Shu Xu, and Zi-Niu Wu. A note on hybrid Eulerian/Lagrangian computation of compressible inviscid and viscous flows. *Journal of Computational Physics*, 226(1):1–16, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002446>.

Gunter:2005:MHT

- [GYKL05] S. Günter, Q. Yu, J. Krüger, and K. Lackner. Modelling of heat transport in magnetised plasmas using non-aligned coordinates. *Journal of Computational Physics*, 209(1):354–370, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001373>.

Ge:2001:HAI

- [GZ01] Lixin Ge and Jun Zhang. High accuracy iterative solution of convection diffusion equation with boundary layers on nonuniform grids. *Journal of Computational Physics*, 171(2):560–578, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967944>.

Ganapathysubramanian:2007:MDR

- [GZ07a] Baskar Ganapathysubramanian and Nicholas Zabaras. Modeling diffusion in random heterogeneous media: Data-driven models, stochastic collocation and the variational multiscale method. *Journal of Computational Physics*, 226(1):326–353, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700160X>.

Ganapathysubramanian:2007:SGC

- [GZ07b] Baskar Ganapathysubramanian and Nicholas Zabaras. Sparse grid collocation schemes for stochastic natural convection problems. *Journal of Computational Physics*, 225(1):652–685,

July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006152>.

Ganapathysubramanian:2008:NLD

- [GZ08] Baskar Ganapathysubramanian and Nicholas Zabaras. A non-linear dimension reduction methodology for generating data-driven stochastic input models. *Journal of Computational Physics*, 227(13):6612–6637, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001721>.

Ganapathysubramanian:2009:SMF

- [GZ09] B. Ganapathysubramanian and N. Zabaras. A stochastic multiscale framework for modeling flow through random heterogeneous porous media. *Journal of Computational Physics*, 228(2):591–618, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005329>.

Hu:2002:EAD

- [HA02] Fang Q. Hu and Harold L. Atkins. Eigensolution analysis of the discontinuous Galerkin method with nonuniform grids: I. One space dimension. *Journal of Computational Physics*, 182(2):516–545, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971846>.

Hu:2006:MPS

- [HA06] X. Y. Hu and N. A. Adams. A multi-phase SPH method for macroscopic and mesoscopic flows. *Journal of Computational Physics*, 213(2):844–861, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004195>.

Hu:2007:IMP

- [HA07] X. Y. Hu and N. A. Adams. An incompressible multi-phase SPH method. *Journal of Computational Physics*,

227(1):264–278, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003300>.

Hu:2009:CDA

- [HA09] X. Y. Hu and N. A. Adams. A constant-density approach for incompressible multi-phase SPH. *Journal of Computational Physics*, 228(6):2082–2091, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006177>.

Haber:2000:FSE

- [HAAO00] E. Haber, U. M. Ascher, D. A. Aruliah, and D. W. Oldenburg. Fast simulation of 3D electromagnetic problems using potentials. *Journal of Computational Physics*, 163(1):150–171, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965458>.

Haber:2004:MLS

- [Hab04] E. Haber. A multilevel, level-set method for optimizing eigenvalues in shape design problems. *Journal of Computational Physics*, 198(2):518–534, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000506>.

Hadley:2005:CJI

- [Had05] G. Ronald Hadley. A complex Jacobi iterative method for the indefinite Helmholtz equation. *Journal of Computational Physics*, 203(1):358–370, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004012>.

Hickel:2006:ALD

- [HAD06] Stefan Hickel, Nikolaus A. Adams, and J. Andrzej Domaradzki. An adaptive local deconvolution method for implicit LES. *Journal of Computational Physics*, 213(1):413–436, March 20, 2006. CODEN JCTPAH. ISSN 0021-

9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003864>.

Hagelaar:2007:HNM

- [Hag07] G. J. M. Hagelaar. How to normalize Maxwell–Boltzmann electrons in transient plasma models. *Journal of Computational Physics*, 227(2):871–876, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004329>.

Hu:2009:HRS

- [HAI09] X. Y. Hu, N. A. Adams, and G. Iaccarino. On the HLLC Riemann solver for interface interaction in compressible multi-fluid flow. *Journal of Computational Physics*, 228(17):6572–6589, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003192>.

Hamacher:2007:AEO

- [Ham07] K. Hamacher. Adaptive extremal optimization by detrended fluctuation analysis. *Journal of Computational Physics*, 227(2):1500–1509, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004214>.

Hansbo:2000:CNT

- [Han00] Peter Hansbo. A Crank–Nicolson type space–time finite element method for computing on moving meshes. *Journal of Computational Physics*, 159(2):274–289, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964362>.

Hankin:2001:EEM

- [Han01] Robin K. S. Hankin. The Euler equations for multiphase compressible flow in conservation form: Simulation of shock-bubble interactions. *Journal of Computational Physics*, 172(2):808–826, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968597>.

Henrick:2005:MWE

- [HAP05] Andrew K. Henrick, Tariq D. Aslam, and Joseph M. Powers. Mapped weighted essentially non-oscillatory schemes: Achieving optimal order near critical points. *Journal of Computational Physics*, 207(2):542–567, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000409>.

Henrick:2006:SPO

- [HAP06] Andrew K. Henrick, Tariq D. Aslam, and Joseph M. Powers. Simulations of pulsating one-dimensional detonations with true fifth order accuracy. *Journal of Computational Physics*, 213(1):311–329, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S00219991050003827>.

Harlow:2004:FDG

- [Har04] Francis H. Harlow. Fluid dynamics in Group T-3 Los Alamos National Laboratory: (LA-UR-03-3852). *Journal of Computational Physics*, 195(2):414–433, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005692>.

Hasan:2005:OBC

- [HAS05] Nadeem Hasan, Syed Fahad Anwer, and Sanjeev Sanghi. On the outflow boundary condition for external incompressible flows: a new approach. *Journal of Computational Physics*, 206(2):661–683, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000100>.

Haughton:2008:EECa

- [Hau08a] D. M. Haughton. Evaluation of eigenfunctions from compound matrix variables in non-linear elasticity — I. Fourth order systems. *Journal of Computational Physics*, 227(9):4478–4485, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000211>.

Haughton:2008:EECb

- [Hau08b] D. M. Haughton. Evaluation of eigenfunctions from compound matrix variables in non-linear elasticity — II. Sixth order systems. *Journal of Computational Physics*, 227(20):8960–8967, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003720>.

Howell:2002:FLA

- [HB02] B. P. Howell and G. J. Ball. A free-Lagrange augmented Godunov method for the simulation of elastic-plastic solids. *Journal of Computational Physics*, 175(1):128–167, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969311>.

Holzmann:2005:OPC

- [HB05a] Markus Holzmann and Bernard Bernu. Optimized periodic $1/r$ Coulomb potential in two dimensions. *Journal of Computational Physics*, 206(1):111–121, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005030>.

Hyde:2005:FHO

- [HB05b] E. McKay Hyde and Oscar P. Bruno. A fast, higher-order solver for scattering by penetrable bodies in three dimensions. *Journal of Computational Physics*, 202(1):236–261, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400275X>.

Hajibeygi:2008:IMF

- [HBHJ08] Hadi Hajibeygi, Giuseppe Bonfigli, Marc Andre Hesse, and Patrick Jenny. Iterative multiscale finite-volume method. *Journal of Computational Physics*, 227(19):8604–8621, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800332X>.

Havu:2009:EIA

- [HBHS09] V. Havu, V. Blum, P. Havu, and M. Scheffler. Efficient $O(N)$ integration for all-electron electronic structure calculation using numeric basis functions. *Journal of Computational Physics*, 228(22):8367–8379, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004458>.

Habisreutinger:2007:CAD

- [HBLD07] Marc A. Habisreutinger, Roland Bouffanais, Emmanuel Leriche, and Michel O. Deville. A coupled approximate deconvolution and dynamic mixed scale model for large-eddy simulation. *Journal of Computational Physics*, 224(1):241–266, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700071X>.

Hwang:2005:PNA

- [HC05] Feng-Nan Hwang and Xiao-Chuan Cai. A parallel nonlinear additive Schwarz preconditioned inexact Newton algorithm for incompressible Navier–Stokes equations. *Journal of Computational Physics*, 204(2):666–691, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004322>.

Helenbrook:2008:PDT

- [HC08] B. T. Helenbrook and G. W. Cowles. Preconditioning for dual-time-stepping simulations of the shallow water equations including Coriolis and bed friction effects. *Journal of Computational Physics*, 227(9):4425–4440, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800017X>.

Henshaw:2009:CGS

- [HC09] William D. Henshaw and Kyle K. Chand. A composite grid solver for conjugate heat transfer in fluid-structure systems. *Journal of Computational Physics*, 228(10):3708–3741, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000667>.

Hsiao:2001:AHG

- [HCG01] Chao-Tsung Hsiao, Georges Chahine, and Nail Gumerov. Application of a hybrid genetic/Powell algorithm and a boundary element method to electrical impedance tomography. *Journal of Computational Physics*, 173(2):433–454, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968664>.

Haque:2007:TDB

- [HD07] Aamer Haque and Gary A. Dilts. Three-dimensional boundary detection for particle methods. *Journal of Computational Physics*, 226(2):1710–1730, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002586>.

Hittinger:2005:STD

- [HDBW05] J. A. F. Hittinger, M. R. Dorr, R. L. Berger, and E. A. Williams. Simulating time-dependent energy transfer between crossed laser beams in an expanding plasma. *Journal of Computational Physics*, 209(2):695–729, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001944>.

He:2002:CLB

- [HDC02] Xiaoyi He, Gary D. Doolen, and T. Clark. Comparison of the lattice Boltzmann method and the artificial compressibility method for Navier–Stokes equations. *Journal of Computational Physics*, 179(2):439–451, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970646>.

Hoitinga:2008:DML

- [HdGKG08] Wijnand Hoitinga, Roel de Groot, Marcel Kwakkel, and Marc Gerritsma. Direct minimization of the least-squares spectral element functional — Part I: Direct solver. *Journal of Computational Physics*, 227(4):2411–2429, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004718>.

Huang:2006:QHE

- [HDR⁺06] C. Huang, V. K. Decyk, C. Ren, M. Zhou, W. Lu, W. B. Mori, J. H. Cooley, T. M. Antonsen, Jr., and T. Katsouleas. QUICKPIC: a highly efficient particle-in-cell code for modeling wakefield acceleration in plasmas. *Journal of Computational Physics*, 217(2):658–679, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000283>.

Hemker:2007:TRS

- [HE07] P. W. Hemker and D. Echeverría. A trust-region strategy for manifold-mapping optimization. *Journal of Computational Physics*, 224(1):464–475, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001519>.

Heinrichs:2004:SCS

- [Hei04] Wilhelm Heinrichs. Spectral collocation schemes on the unit disc. *Journal of Computational Physics*, 199(1):66–86, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000658>.

Heinrichs:2005:ILC

- [Hei05] Wilhelm Heinrichs. Improved Lebesgue constants on the triangle. *Journal of Computational Physics*, 207(2):625–638, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000446>.

Helenbrook:2005:PIF

- [Hel05] B. T. Helenbrook. Preconditioning for incompressible flows with free-surfaces and two-fluid interfaces. *Journal of Computational Physics*, 207(1):282–308, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000306>.

Helsing:2009:FCH

- [Hel09a] Johan Helsing. Faster convergence and higher accuracy for the Dirichlet–Neumann map. *Journal of Computa-*

tional Physics, 228(7):2578–2586, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800658X>.

Helsing:2009:IEM

- [Hel09b] Johan Helsing. Integral equation methods for elliptic problems with boundary conditions of mixed type. *Journal of Computational Physics*, 228(23):8892–8907, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004896>.

Hughes:2000:CGM

- [HEML00] Thomas J. R. Hughes, Gerald Engel, Luca Mazzei, and Mats G. Larson. The continuous Galerkin method is locally conservative. *Journal of Computational Physics*, 163(2):467–488, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096577X>.

Hejranfar:2009:OCS

- [HEN09] Kazem Hejranfar, Vahid Esfahanian, and Mehdi Najafi. On the outflow conditions for spectral solution of the viscous blunt-body problem. *Journal of Computational Physics*, 228(11):3936–3972, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000795>.

Hermeline:2000:FVM

- [Her00] F. Hermeline. A finite volume method for the approximation of diffusion operators on distorted meshes. *Journal of Computational Physics*, 160(2):481–499, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964660>.

Herrmann:2005:ELS

- [Her05] M. Herrmann. A Eulerian level set/vortex sheet method for two-phase interface dynamics. *Journal of Computational Physics*, 203(2):539–571, March 1, 2005. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003912>.

Herrmann:2008:BFR

- [Her08] M. Herrmann. A balanced force refined level set grid method for two-phase flows on unstructured flow solver grids. *Journal of Computational Physics*, 227(4):2674–2706, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004998>.

Hermeline:2009:FVM

- [Her09] F. Hermeline. A finite volume method for approximating 3D diffusion operators on general meshes. *Journal of Computational Physics*, 228(16):5763–5786, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002368>.

Heuveline:2003:CVL

- [Heu03] Vincent Heuveline. On the computation of a very large number of eigenvalues for selfadjoint elliptic operators by means of multigrid methods. *Journal of Computational Physics*, 184(1):321–337, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000438>.

Hewett:2003:FMI

- [Hew03] Dennis W. Hewett. Fragmentation, merging, and internal dynamics for PIC simulation with finite size particles. *Journal of Computational Physics*, 189(2):390–426, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002250>.

Harvie:2000:NVF

- [HF00] Dalton J. E. Harvie and David F. Fletcher. A new volume of fluid advection algorithm: The stream scheme. *Journal of Computational Physics*, 162(1):1–32, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965100>.

Horne:2001:NCE

- [HF01] Richard B. Horne and Mervyn P. Freeman. A new code for electrostatic simulation by numerical integration of the Vlasov and Ampère equations using MacCormack's method. *Journal of Computational Physics*, 171(1):182–200, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967816>.

Honda:2008:DTS

- [HF08a] M. Honda and A. Fukuyama. Dynamic transport simulation code including plasma rotation and radial electric field. *Journal of Computational Physics*, 227(5):2808–2844, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005062>.

Husain:2008:ISA

- [HF08b] S. Z. Husain and J. M. Floryan. Implicit spectrally-accurate method for moving boundary problems using immersed boundary conditions concept. *Journal of Computational Physics*, 227(9):4459–4477, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800020X>.

Harari:2001:SDS

- [HFO01] Isaac Harari, Leopold P. Franca, and Saulo P. Oliveira. Streamline design of stability parameters for advection-diffusion problems. *Journal of Computational Physics*, 171(1):115–131, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967774>.

Howell:2003:RDM

- [HG03] Louis H. Howell and Jeffrey A. Greenough. Radiation diffusion for multi-fluid Eulerian hydrodynamics with adaptive mesh refinement. *Journal of Computational Physics*, 184(1):53–78, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000153>.

Huot:2003:ITS

- [HGB⁺03] F. Huot, A. Ghizzo, P. Bertrand, E. Sonnendrücker, and O. Coulaud. Instability of the time splitting scheme for the one-dimensional and relativistic Vlasov–Maxwell system. *Journal of Computational Physics*, 185(2):512–531, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000797>.

Hadjiconstantinou:2003:SEP

- [HGBH03] Nicolas G. Hadjiconstantinou, Alejandro L. Garcia, Martin Z. Bazant, and Gang He. Statistical error in particle simulations of hydrodynamic phenomena. *Journal of Computational Physics*, 187(1):274–297, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000998>.

He:2000:ACD

- [HGM⁺00] J.-W. He, R. Glowinski, R. Metcalfe, A. Nordlander, and J. Periaux. Active control and drag optimization for flow past a circular cylinder: I. Oscillatory cylinder rotation. *Journal of Computational Physics*, 163(1):83–117, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965562>.

Hwang:2001:STM

- [HGM01] Chi-Ok Hwang, James A. Given, and Michael Mascagni. The simulation-tabulation method for classical diffusion Monte Carlo. *Journal of Computational Physics*, 174(2):925–946, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969475>.

Hubbard:2000:FDS

- [HGN00] M. E. Hubbard and P. Garcia-Navarro. Flux difference splitting and the balancing of source terms and flux gradients. *Journal of Computational Physics*, 165(1):89–125, November

20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966038>.

Haschke:2001:STS

- [HH01] Heike Haschke and Wilhelm Heinrichs. Splitting techniques with staggered grids for the Navier–Stokes equations in the 2D case. *Journal of Computational Physics*, 168(1):131–154, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966841>.

Hartmann:2002:ADG

- [HH02a] Ralf Hartmann and Paul Houston. Adaptive discontinuous Galerkin finite element methods for the compressible Euler equations. *Journal of Computational Physics*, 183(2):508–532, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972062>.

Henriksen:2002:ASI

- [HH02b] Martin Ofstad Henriksen and Jens Holmen. Algebraic splitting for incompressible Navier–Stokes equations. *Journal of Computational Physics*, 175(2):438–453, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969074>.

Hudson:2006:HRS

- [HH06] Justin Hudson and David Harris. A high resolution scheme for Eulerian gas-solid two-phase isentropic flow. *Journal of Computational Physics*, 216(2):494–525, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005620>.

Haber:2007:OMM

- [HH07a] Eldad Haber and Stefan Heldmann. An octree multigrid method for quasi-static Maxwell’s equations with highly discontinuous coefficients. *Journal of Computational Physics*, 223(2):783–796, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999106004748>.

Hagstrom:2007:GSH

- [HH07b] Thomas Hagstrom and George Hagstrom. Grid stabilization of high-order one-sided differencing I: First-order hyperbolic systems. *Journal of Computational Physics*, 223(1):316–340, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004396>.

Homolle:2007:LVD

- [HH07c] Thomas M. M. Homolle and Nicolas G. Hadjiconstantinou. A low-variance deviational simulation Monte Carlo for the Boltzmann equation. *Journal of Computational Physics*, 226(2):2341–2358, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700318X>.

Hartmann:2008:OOI

- [HH08] Ralf Hartmann and Paul Houston. An optimal order interior penalty discontinuous Galerkin discretization of the compressible Navier–Stokes equations. *Journal of Computational Physics*, 227(22):9670–9685, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003975>.

Hollis:2008:AVL

- [HHC08] A. P. Hollis, I. Halliday, and C. M. Care. An accurate and versatile lattice closure scheme for lattice Boltzmann equation fluids under external forces. *Journal of Computational Physics*, 227(17):8065–8082, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002817>.

Hacquín:2001:FCW

- [HHCL01] S. Haquin, S. Heuraux, M. Colin, and G. Leclert. Fast computations of wave propagation in an inhomogeneous plasma by a pulse compression method. *Journal of Computational Physics*, 174(1):1–11, November 20, 2001. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968676>.

Heemels:2000:SSC

- [HHL00] M. W. Heemels, M. H. J. Hagen, and C. P. Lowe. Simulating solid colloidal particles using the lattice-Boltzmann method. *Journal of Computational Physics*, 164(1):48–61, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965641>.

Hwang:2004:DSP

- [HHM04] Wook Ryol Hwang, Martien A. Hulsen, and Han E. H. Meijer. Direct simulation of particle suspensions in sliding bi-periodic frames. *Journal of Computational Physics*, 194(2):742–772, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005060>.

Hicken:2005:STF

- [HHMK05] J. E. Hicken, F. E. Ham, J. Militzer, and M. Koksall. A shift transformation for fully conservative methods: turbulence simulation on complex, unstructured grids. *Journal of Computational Physics*, 208(2):704–734, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001270>.

Hecht:2008:ILT

- [HHPW08] Matthew W. Hecht, Darryl D. Holm, Mark R. Petersen, and Beth A. Wingate. Implementation of the LANS- α turbulence model in a primitive equation ocean model. *Journal of Computational Physics*, 227(11):5691–5716, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001125>.

Higdon:2002:TLT

- [Hig02] Robert L. Higdon. A two-level time-stepping method for layered ocean circulation models. *Journal of Computational Physics*, 177(1):59–94, March 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970038>.

Higdon:2005:TLT

- [Hig05] Robert L. Higdon. A two-level time-stepping method for layered ocean circulation models: further development and testing. *Journal of Computational Physics*, 206(2):463–504, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005236>.

Hixon:2000:PSS

- [Hix00] R. Hixon. Prefactored small-stencil compact schemes. *Journal of Computational Physics*, 165(2):522–541, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966312>.

Helsing:2002:SCM

- [HJ02] Johan Helsing and Anders Jonsson. Stress calculations on multiply connected domains. *Journal of Computational Physics*, 176(2):456–482, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102969962>.

Honkkila:2007:HSI

- [HJ07] V. Honkkila and P. Janhunen. HLLC solver for ideal relativistic MHD. *Journal of Computational Physics*, 223(2):643–656, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004669>.

Hajibeygi:2009:MFV

- [HJ09] Hadi Hajibeygi and Patrick Jenny. Multiscale finite-volume method for parabolic problems arising from compressible multiphase flow in porous media. *Journal of Computational Physics*, 228(14):5129–5147, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001946>.

Hager:2004:PSD

- [HJFW04] G. Hager, E. Jeckelmann, H. Fehske, and G. Wellein. Parallelization strategies for density matrix renormalization group algorithms on shared-memory systems. *Journal of Computational Physics*, 194(2):795–808, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005084>.

Heuze:2009:DIH

- [HJJ09] Olivier Heuzé, Stéphane Jaouen, and Hervé Jourdain. Dissipative issue of high-order shock capturing schemes with non-convex equations of state. *Journal of Computational Physics*, 228(3):833–860, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005275>.

Heikkinen:2008:FGM

- [HJKO08] J. A. Heikkinen, S. J. Janhunen, T. P. Kiviniemi, and F. Ogando. Full f gyrokinetic method for particle simulation of tokamak transport. *Journal of Computational Physics*, 227(11):5582–5609, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001009>.

Hong:2009:EMS

- [HJL09] Jialin Hong, Shanshan Jiang, and Chun Li. Explicit multisymplectic methods for Klein–Gordon–Schrödinger equations. *Journal of Computational Physics*, 228(9):3517–3532, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000709>.

Huang:2005:TSS

- [HJM⁺05] Zhongyi Huang, Shi Jin, Peter A. Markowich, Christof Sparber, and Chunxiong Zheng. A time-splitting spectral scheme for the Maxwell–Dirac system. *Journal of Computational Physics*, 208(2):761–789, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001300>.

Huang:2006:ACS

- [HJM06] Jingfang Huang, Jun Jia, and Michael Minion. Accelerating the convergence of spectral deferred correction methods. *Journal of Computational Physics*, 214(2):633–656, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004663>.

Huang:2007:AOK

- [HJM07] Jingfang Huang, Jun Jia, and Michael Minion. Arbitrary order Krylov deferred correction methods for differential algebraic equations. *Journal of Computational Physics*, 221(2):739–760, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003147>.

Hagelaar:2000:SFM

- [HK00] G. J. M. Hagelaar and G. M. W. Kroesen. Speeding up fluid models for gas discharges by implicit treatment of the electron energy source term. *Journal of Computational Physics*, 159(1):1–12, March 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964453>.

Hui:2001:UCS

- [HK01] W. H. Hui and S. Kudriakov. A unified coordinate system for solving the three-dimensional Euler equations. *Journal of Computational Physics*, 172(1):235–260, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968226>.

Hong:2002:WBM

- [HK02] Tae-Kyung Hong and B. L. N. Kennett. On a wavelet-based method for the numerical simulation of wave propagation. *Journal of Computational Physics*, 183(2):577–622, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972025>.

Hall:2004:SAB

- [HK04a] William F. Hall and Adour V. Kabakian. A sequence of absorbing boundary conditions for Maxwell's equations. *Journal of Computational Physics*, 194(1):140–155, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004637>.

Hu:2004:IIM

- [HK04b] X. Y. Hu and B. C. Khoo. An interface interaction method for compressible multifluids. *Journal of Computational Physics*, 198(1):35–64, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000178>.

Hu:2004:KEF

- [HK04c] X. Y. Hu and B. C. Khoo. Kinetic energy fix for low internal energy flows. *Journal of Computational Physics*, 193(1):243–259, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004297>.

Hieber:2005:LPL

- [HK05] Simone E. Hieber and Petros Koumoutsakos. A Lagrangian particle level set method. *Journal of Computational Physics*, 210(1):342–367, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002238>.

Ha:2006:ESC

- [HK06] Youngsoo Ha and Yong Jung Kim. Explicit solutions to a convection-reaction equation and defects of numerical schemes. *Journal of Computational Physics*, 220(1):511–531, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003457>.

Heinrichs:2008:DSL

- [HK08a] Wilhelm Heinrichs and Thorsten Kattelans. A direct solver for the least-squares spectral collocation system on rectangu-

lar elements for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 227(9):4776–4796, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000508>.

Hieber:2008:IBM

- [HK08b] S. E. Hieber and P. Koumoutsakos. An immersed boundary method for smoothed particle hydrodynamics of self-propelled swimmers. *Journal of Computational Physics*, 227(19):8636–8654, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003343>.

Hieber:2008:LPM

- [HK08c] Simone E. Hieber and Petros Koumoutsakos. A Lagrangian particle method for the simulation of linear and nonlinear elastic models of soft tissue. *Journal of Computational Physics*, 227(21):9195–9215, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002714>.

Hu:2006:CIM

- [HKAH06] X. Y. Hu, B. C. Khoo, N. A. Adams, and F. L. Huang. A conservative interface method for compressible flows. *Journal of Computational Physics*, 219(2):553–578, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001926>.

Heintz:2008:FNM

- [HKG08] Alexei Heintz, Piotr Kowalczyk, and Richards Grzybowski. Fast numerical method for the Boltzmann equation on non-uniform grids. *Journal of Computational Physics*, 227(13):6681–6695, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001800>.

Heikkinen:2001:PSN

- [HKKS⁺01] J. A. Heikkinen, T. P. Kiviniemi, T. Kurki-Suonio, A. G. Peeters, and S. K. Sipilä. Particle simulation of the neo-classical plasmas. *Journal of Computational Physics*, 173 (2):527–548, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968913>.

Hatzky:2007:EGP

- [HKM07] R. Hatzky, A. Könies, and A. Mishchenko. Electromagnetic gyrokinetic PIC simulation with an adjustable control variates method. *Journal of Computational Physics*, 225(1):568–590, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006085>.

Ha:2008:NSD

- [HKM08] Youngsoo Ha, Yong-Jung Kim, and Tim G. Myers. On the numerical solution of a driven thin film equation. *Journal of Computational Physics*, 227(15):7246–7263, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002222>.

He:2007:ITD

- [HKO07] Lin He, Chiu-Yen Kao, and Stanley Osher. Incorporating topological derivatives into shape derivatives based level set methods. *Journal of Computational Physics*, 225(1):891–909, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000095>.

He:2009:RSI

- [HKS09] Lin He, Stefan Kindermann, and Mourad Sini. Reconstruction of shapes and impedance functions using few far-field measurements. *Journal of Computational Physics*, 228(3):717–730, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800507X>.

Horntrop:2001:SMM

- [HKV01] David J. Horntrop, Markos A. Katsoulakis, and Dionisios G. Vlachos. Spectral methods for mesoscopic models of pattern formation. *Journal of Computational Physics*, 173(1):364–390, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968834>.

Heinrichs:2001:SST

- [HL01] Wilhelm Heinrichs and Birgit I. Loch. Spectral schemes on triangular elements. *Journal of Computational Physics*, 173(1):279–301, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968767>.

Hanich:2004:TIM

- [HL04] L. Hanich and M. Louaked. TVD-interpolating matrix method prediction of flow with heat transfer. *Journal of Computational Physics*, 193(1):226–242, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004285>.

Hou:2005:NMS

- [HL05] Songming Hou and Xu-Dong Liu. A numerical method for solving variable coefficient elliptic equation with interfaces. *Journal of Computational Physics*, 202(2):411–445, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400292X>.

Hetmaniuk:2006:BSL

- [HL06a] U. Hetmaniuk and R. Lehoucq. Basis selection in LOBPCG. *Journal of Computational Physics*, 218(1):324–332, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000866>.

Hong:2006:MSR

- [HL06b] Jialin Hong and Chun Li. Multi-symplectic Runge–Kutta methods for nonlinear Dirac equations. *Journal of Computational Physics*, 211(2):448–472, January 20, 2006. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002822>.

Hellander:2007:HMC

- [HL07a] Andreas Hellander and Per Lötstedt. Hybrid method for the chemical master equation. *Journal of Computational Physics*, 227(1):100–122, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003221>.

Hou:2007:CNS

- [HL07b] Thomas Y. Hou and Ruo Li. Computing nearly singular solutions using pseudo-spectral methods. *Journal of Computational Physics*, 226(1):379–397, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001623>.

Hua:2007:NSB

- [HL07c] Jinsong Hua and Jing Lou. Numerical simulation of bubble rising in viscous liquid. *Journal of Computational Physics*, 222(2):769–795, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003949>.

Lin:2001:SMR

- [hLA01] Yi hung Lin and Raymond A. Adomaitis. Simulation and model reduction methods for an RF plasma glow discharge. *Journal of Computational Physics*, 171(2):731–752, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968081>.

Hall:2007:NMH

- [HLFB07] David M. Hall, Turab Lookman, Glenn H. Fredrickson, and Sanjoy Banerjee. Numerical method for hydrodynamic transport of inhomogeneous polymer melts. *Journal of Computational Physics*, 224(2):681–698, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005444>.

Hyman:2000:AAQ

- [HLKS00] James M. Hyman, Shengtai Li, Patrick Knupp, and Mikhail Shashkov. An algorithm for aligning a quadrilateral grid with internal boundaries. *Journal of Computational Physics*, 163(1):133–149, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965604>.

Hu:2008:ABC

- [HLL08] Fang Q. Hu, X. D. Li, and D. K. Lin. Absorbing boundary conditions for nonlinear Euler and Navier–Stokes equations based on the perfectly matched layer technique. *Journal of Computational Physics*, 227(9):4398–4424, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000168>.

Heys:2007:ALS

- [HLMM07] J. J. Heys, E. Lee, T. A. Manteuffel, and S. F. McCormick. An alternative least-squares formulation of the Navier–Stokes equations with improved mass conservation. *Journal of Computational Physics*, 226(1):994–1006, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002185>.

Hermeline:2008:FVM

- [HLO08] F. Hermeline, S. Layouni, and P. Omnes. A finite volume method for the approximation of Maxwell’s equations in two space dimensions on arbitrary meshes. *Journal of Computational Physics*, 227(22):9365–9388, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002945>.

Hou:2006:WCE

- [HLRZ06] Thomas Y. Hou, Wuan Luo, Boris Rozovskii, and Hao-Min Zhou. Wiener Chaos expansions and numerical solutions of randomly forced equations of fluid mechanics. *Jour-*

nal of Computational Physics, 216(2):687–706, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000064>.

Hou:2001:BIM

- [HLS01] T. Y. Hou, J. S. Lowengrub, and M. J. Shelley. Boundary integral methods for multicomponent fluids and multiphase materials. *Journal of Computational Physics*, 169(2):302–362, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966269>.

Ham:2002:CGM

- [HLS02a] F. E. Ham, F. S. Lien, and A. B. Strong. A Cartesian grid method with transient anisotropic adaptation. *Journal of Computational Physics*, 179(2):469–494, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970671>.

Ham:2002:FCS

- [HLS02b] F. E. Ham, F. S. Lien, and A. B. Strong. A fully conservative second-order finite difference scheme for incompressible flow on nonuniform grids. *Journal of Computational Physics*, 177(1):117–133, March 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970063>.

Hakim:2006:HRW

- [HLS06] A. Hakim, J. Loverich, and U. Shumlak. A high resolution wave propagation scheme for ideal two-fluid plasma equations. *Journal of Computational Physics*, 219(1):418–442, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001707>.

Hwang:2004:NST

- [HLWW04] Tsung-Min Hwang, Wen-Wei Lin, Wei-Cheng Wang, and Weichung Wang. Numerical simulation of three dimensional pyramid quantum dot. *Journal of Computational*

Physics, 196(1):208–232, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005941>. See erratum [HLWW06].

Hwang:2006:ENS

- [HLWW06] Tsung-Min Hwang, Wen-Wei Lin, Wei-Cheng Wang, and Weichung Wang. Erratum to “Numerical simulation of three dimensional pyramid quantum dot” [J. Comput. Phys. **196** (2004) 208–232]. *Journal of Computational Physics*, 215(1):384, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500495X>. See [HLWW04].

Huang:2006:IEM

- [HLX06] Jingfang Huang, Ming-Chih Lai, and Yang Xiang. An integral equation method for epitaxial step-flow growth simulations. *Journal of Computational Physics*, 216(2):724–743, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000088>.

Huang:2009:IPW

- [HLY09] Juan-Chen Huang, Herng Lin, and Jaw-Yen Yang. Implicit preconditioned WENO scheme for steady viscous flow computation. *Journal of Computational Physics*, 228(2):420–438, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005019>.

Hunter:2002:RAS

- [HLZ02] John K. Hunter, Zhilin Li, and Hongkai Zhao. Reactive autophobic spreading of drops. *Journal of Computational Physics*, 183(2):335–366, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971688>.

Honein:2004:HEC

- [HM04] Albert E. Honein and Parviz Moin. Higher entropy conservation and numerical stability of compressible turbulence

simulations. *Journal of Computational Physics*, 201(2):531–545, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002414>.

Hou:2005:RCI

- [HM05] Yucheng Hou and Krishnan Mahesh. A robust, collocated, implicit algorithm for direct numerical simulation of compressible, turbulent flows. *Journal of Computational Physics*, 205(1):205–221, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004644>.

Harlim:2008:MSF

- [HM08] J. Harlim and A. J. Majda. Mathematical strategies for filtering complex systems: Regularly spaced sparse observations. *Journal of Computational Physics*, 227(10):5304–5341, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000806>.

Hess:2009:HID

- [HM09] S. Hess and F. Mottez. How to improve the diagnosis of kinetic energy in δf PIC codes. *Journal of Computational Physics*, 228(18):6670–6681, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002812>.

Haven:2005:QPT

- [HMA05] Kyle Haven, Andrew Majda, and Rafail Abramov. Quantifying predictability through information theory: small sample estimation in a non-Gaussian framework. *Journal of Computational Physics*, 206(1):334–362, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005169>.

Huttunen:2002:CAU

- [HMK02] Tomi Huttunen, Peter Monk, and Jari P. Kaipio. Computational aspects of the ultra-weak variational formulation. *Journal of Computational Physics*, 182(1):27–46, October 10,

2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971482>.

Hammond:2002:NMS

- [HMM02] E. P. Hammond, K. Mahesh, and P. Moin. A numerical method to simulate radio-frequency plasma discharges. *Journal of Computational Physics*, 176(2):402–429, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969943>.

Huttunen:2007:SME

- [HMM07] T. Huttunen, M. Malinen, and P. Monk. Solving Maxwell's equations using the ultra weak variational formulation. *Journal of Computational Physics*, 223(2):731–758, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004712>.

Hanawa:2008:ISI

- [HMM08] Tomoyuki Hanawa, Hayato Mikami, and Tomoaki Matsumoto. Improving shock irregularities based on the characteristics of the MHD equations. *Journal of Computational Physics*, 227(16):7952–7976, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002702>.

Heys:2005:AMH

- [HMMO05] J. J. Heys, T. A. Manteuffel, S. F. McCormick, and L. N. Olson. Algebraic multigrid for higher-order finite elements. *Journal of Computational Physics*, 204(2):520–532, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004267>.

Heys:2004:FOS

- [HMMR04] J. J. Heys, T. A. Manteuffel, S. F. McCormick, and J. W. Ruge. First-order system least squares (FOSLS) for coupled fluid-elastic problems. *Journal of Computational Physics*, 195(2):560–575, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005722>.

Hagstrom:2008:HOL

- [HMOG08] Thomas Hagstrom, Assaf Mar-Or, and Dan Givoli. High-order local absorbing conditions for the wave equation: Extensions and improvements. *Journal of Computational Physics*, 227(6):3322–3357, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005360>.

Heikkola:2007:CMH

- [HMPR07] Erkki Heikkola, Sanna Mönkölä, Anssi Pennanen, and Tuomo Rossi. Controllability method for the Helmholtz equation with higher-order discretizations. *Journal of Computational Physics*, 225(2):1553–1576, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700068X>.

Huang:2008:SMM

- [HMR08] Weizhang Huang, Jingtang Ma, and Robert D. Russell. A study of moving mesh PDE methods for numerical simulation of blowup in reaction diffusion equations. *Journal of Computational Physics*, 227(13):6532–6552, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001678>.

Hartmann:2008:DEB

- [HMS08a] Daniel Hartmann, Matthias Meinke, and Wolfgang Schröder. Differential equation based constrained reinitialization for level set methods. *Journal of Computational Physics*, 227(14):6821–6845, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001964>. See erratum [HMS08b].

Hartmann:2008:EDE

- [HMS08b] Daniel Hartmann, Matthias Meinke, and Wolfgang Schröder. Erratum to “Differential Equation Based Constrained Reinitialization for Level Set Methods” [J. Comput. Phys. **227**

(2008) 6821–6845]. *Journal of Computational Physics*, 227 (22):9696, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800418X>. See [HMS08a].

Homescu:2003:OCF

[HN03] Chris Homescu and I. M. Navon. Optimal control of flow with discontinuities. *Journal of Computational Physics*, 187 (2):660–682, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001542>.

Haselbacher:2007:ERP

[HNF07] A. Haselbacher, F. M. Najjar, and J. P. Ferry. An efficient and robust particle-localization algorithm for unstructured grids. *Journal of Computational Physics*, 225(2):2198–2213, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700126X>.

Holdych:2004:TEA

[HNGB04] David J. Holdych, David R. Noble, John G. Georgiadis, and Richard O. Buckius. Truncation error analysis of lattice Boltzmann methods. *Journal of Computational Physics*, 193(2):595–619, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004364>.

Hughes:2003:CSS

[HO03] Thomas J. R. Hughes and Assad A. Oberai. Calculation of shear stresses in the Fourier–Galerkin formulation of turbulent channel flows: projection, the Dirichlet filter and conservation. *Journal of Computational Physics*, 188(1):281–295, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001670>.

Helzel:2006:MSS

[HO06] Christiane Helzel and Felix Otto. Multiscale simulations for suspensions of rod-like molecules. *Journal of Computational Physics*, 216(1):52–75, July 20, 2006. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005425>.

Helsing:2008:CSE

- [HO08a] Johan Helsing and Rikard Ojala. Corner singularities for elliptic problems: Integral equations, graded meshes, quadrature, and compressed inverse preconditioning. *Journal of Computational Physics*, 227(20):8820–8840, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003471>.

Helsing:2008:ELP

- [HO08b] Johan Helsing and Rikard Ojala. On the evaluation of layer potentials close to their sources. *Journal of Computational Physics*, 227(5):2899–2921, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005190>.

Hoffman:2004:IFC

- [Hof04] Gary G. Hoffman. An integral for FHNC calculations. *Journal of Computational Physics*, 194(2):659–676, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300500X>.

Hohage:2006:FNS

- [Hoh06] Thorsten Hohage. Fast numerical solution of the electromagnetic medium scattering problem and applications to the inverse problem. *Journal of Computational Physics*, 214(1):224–238, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004328>.

Horritt:2002:SMD

- [Hor02] M. S. Horritt. Stochastic modelling of 1-D shallow water flows over uncertain topography. *Journal of Computational Physics*, 180(1):327–338, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297097X>.

Hornthrop:2006:MSO

- [Hor06] David J. Hornthrop. Mesoscopic simulation of Ostwald ripening. *Journal of Computational Physics*, 218(1):429–441, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000921>.

Hao:2004:NMT

- [HP04a] Yue Hao and Andrea Prosperetti. A numerical method for three-dimensional gas-liquid flow computations. *Journal of Computational Physics*, 196(1):126–144, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005904>.

Hill:2004:HTC

- [HP04b] D. J. Hill and D. I. Pullin. Hybrid tuned center-difference-WENO method for large eddy simulations in the presence of strong shocks. *Journal of Computational Physics*, 194(2):435–450, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300490X>.

Hay:2009:VPS

- [HPD09] A. Hay, D. Pelletier, and R. Di Caro. Verified predictions of shape sensitivities in wall-bounded turbulent flows by an adaptive finite-element method. *Journal of Computational Physics*, 228(12):4510–4531, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001417>.

Ha:2006:EER

- [HPS06a] Taeyoung Ha, Sukjoon Pyun, and Changsoo Shin. Efficient electric resistivity inversion using adjoint state of mixed finite-element method for Poisson’s equation. *Journal of Computational Physics*, 214(1):171–186, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004286>.

Huang:2006:ENS

- [HPS⁺06b] Kai Huang, George Papanicolaou, Knut Solna, Chrysoula Tsogka, and Hongkai Zhao. Efficient numerical simulation for long range wave propagation. *Journal of Computational Physics*, 215(2):448–464, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004985>.

Hu:2001:DNS

- [HPZ01] Howard H. Hu, N. A. Patankar, and M. Y. Zhu. Direct numerical simulations of fluid-solid systems using the arbitrary Lagrangian–Eulerian technique. *Journal of Computational Physics*, 169(2):427–462, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965926>.

Hindmarsh:2001:UOS

- [HR01] Alan C. Hindmarsh and Mark D. Rotter. Using an ODE solver for a class of integro-differential systems. *Journal of Computational Physics*, 168(2):267–285, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966804>.

Hundsdorfer:2007:IEL

- [HR07] Willem Hundsdorfer and Steven J. Ruuth. IMEX extensions of linear multistep methods with general monotonicity and boundedness properties. *Journal of Computational Physics*, 225(2):2016–2042, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001003>.

Hallerod:2008:EML

- [HR08] Tomas Halleröd and Thomas Rylander. Electric and magnetic losses modeled by a stable hybrid with explicit-implicit time-stepping for Maxwell’s equations. *Journal of Computational Physics*, 227(9):4499–4511, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000314>.

Tsai:2002:RAC

- [hRT02] Yen hsi Richard Tsai. Rapid and accurate computation of the distance function using grids. *Journal of Computational Physics*, 178(1):175–195, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970282>.

Huberson:2008:VPM

- [HRV08] Serge Huberson, Elie Rivoalen, and Spyros Voutsinas. Vortex particle methods in aeroacoustic calculations. *Journal of Computational Physics*, 227(21):9216–9240, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003124>.

Henshaw:2003:ANS

- [HS03a] William D. Henshaw and Donald W. Schwendeman. An adaptive numerical scheme for high-speed reactive flow on overlapping grids. *Journal of Computational Physics*, 191(2):420–447, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003231>.

Huang:2003:VMA

- [HS03b] Weizhang Huang and Weiwei Sun. Variational mesh adaptation II: error estimates and monitor functions. *Journal of Computational Physics*, 184(2):619–648, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000402>.

Hu:2004:CTM

- [HS04] Yanhong Hu and Susan B. Sinnott. Constant temperature molecular dynamics simulations of energetic particle-solid collisions: comparison of temperature control methods. *Journal of Computational Physics*, 200(1):251–266, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001664>.

Henshaw:2006:MOG

- [HS06] William D. Henshaw and Donald W. Schwendeman. Moving overlapping grids with adaptive mesh refinement for high-speed reactive and non-reactive flow. *Journal of Computational Physics*, 216(2):744–779, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600009X>.

Ha:2007:MIR

- [HS07a] Taeyoung Ha and Changsoo Shin. Magnetotelluric inversion via reverse time migration algorithm of seismic data. *Journal of Computational Physics*, 225(1):237–262, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005869>.

Hur:2007:TPM

- [HS07b] Min Sup Hur and Hyyong Suk. Test particle method for incorporation of the kinetic effects into the envelope simulations of Raman backscattering. *Journal of Computational Physics*, 226(2):2133–2145, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003002>.

Henshaw:2008:PCT

- [HS08a] William D. Henshaw and Donald W. Schwendeman. Parallel computation of three-dimensional flows using overlapping grids with adaptive mesh refinement. *Journal of Computational Physics*, 227(16):7469–7502, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800243X>.

Hou:2008:ESI

- [HS08b] Thomas Y. Hou and Zuoqiang Shi. An efficient semi-implicit immersed boundary method for the Navier–Stokes equations. *Journal of Computational Physics*, 227(20):8968–8991, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003732>.

Hou:2008:RSE

- [HS08c] Thomas Y. Hou and Zuoqiang Shi. Removing the stiffness of elastic force from the immersed boundary method for the 2D Stokes equations. *Journal of Computational Physics*, 227(21):9138–9169, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800137X>.

Hague:2009:MFB

- [HS09a] C. H. Hague and C. Swan. A multiple flux boundary element method applied to the description of surface water waves. *Journal of Computational Physics*, 228(14):5111–5128, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001934>.

Heuveline:2009:SOT

- [HS09b] Vincent Heuveline and Frank Strauß. Shape optimization towards stability in constrained hydrodynamic systems. *Journal of Computational Physics*, 228(4):938–951, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003380>.

Hazra:2005:ASO

- [HSBG05] S. B. Hazra, V. Schulz, J. Brezillon, and N. R. Gauger. Aerodynamic shape optimization using simultaneous pseudo-timestepping. *Journal of Computational Physics*, 204(1):46–64, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004061>.

Huang:2009:FRC

- [HSC09] Mei-Jiau Huang, Huan-Xun Su, and Li-Chieh Chen. A fast resurrected core-spreading vortex method with no-slip boundary conditions. *Journal of Computational Physics*, 228(6):1916–1931, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006086>.

Hariharan:2000:PTM

- [HSK00] S. I. Hariharan, J. R. Scott, and K. L. Kreider. A potential-theoretic method for far-field sound radiation calculations. *Journal of Computational Physics*, 164(1):143–164, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965914>.

Hua:2008:NSB

- [HSL08] Jinsong Hua, Jan F. Stene, and Ping Lin. Numerical simulation of 3D bubbles rising in viscous liquids using a front tracking method. *Journal of Computational Physics*, 227(6):3358–3382, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005530>.

Hariharan:2003:LTP

- [HSQ03] S. I. Hariharan, Scott Sawyer, and D. Dane Quinn. A Laplace transform/potential-theoretic method for acoustic propagation in subsonic flows. *Journal of Computational Physics*, 185(1):252–270, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000566>.

Huang:2007:SFF

- [HSS07] Wei-Xi Huang, Soo Jai Shin, and Hyung Jin Sung. Simulation of flexible filaments in a uniform flow by the immersed boundary method. *Journal of Computational Physics*, 226(2):2206–2228, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003051>.

Huang:2009:IBM

- [HST09] Huaxiong Huang, Kazuyasu Sugiyama, and Shu Takagi. An immersed boundary method for restricted diffusion with permeable interfaces. *Journal of Computational Physics*, 228(15):5317–5322, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002265>.

Hou:2007:MMS

- [HSW07] T. Y. Hou, V. G. Stredie, and T. Y. Wu. Mathematical modeling and simulation of aquatic and aerial animal locomotion. *Journal of Computational Physics*, 225(2):1603–1631, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000733>.

Hou:2004:ILG

- [HSZ04] Songming Hou, Knut Solna, and Hongkai Zhao. Imaging of location and geometry for extended targets using the response matrix. *Journal of Computational Physics*, 199(1):317–338, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000865>.

Hixon:2000:CIM

- [HT00a] R. Hixon and E. Turkel. Compact implicit MacCormack-type schemes with high accuracy. *Journal of Computational Physics*, 158(1):51–70, February 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964069>. See erratum [HT00b].

Hixon:2000:ECI

- [HT00b] R. Hixon and E. Turkel. Erratum: “Compact Implicit MacCormack-Type Schemes with High Accuracy”: Volume 158, Number 1 (2000), pages 51–70. *Journal of Computational Physics*, 163(2):547, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965598>. See [HT00a].

Huang:2003:PNM

- [HT03] Huaxiong Huang and Shu Takagi. PHYSALIS: a new method for particle flow simulation. Part III: convergence analysis of two-dimensional flows. *Journal of Computational Physics*, 189(2):493–511, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002304>.

Han:2007:AMM

- [HT07] Jianqiang Han and Huazhong Tang. An adaptive moving mesh method for two-dimensional ideal magnetohydrodynamics. *Journal of Computational Physics*, 220(2):791–812, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002609>.

Hu:2001:SPM

- [Hu01] Fang Q. Hu. A stable, perfectly matched layer for linearized Euler equations in unsplit physical variables. *Journal of Computational Physics*, 173(2):455–480, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968871>.

Hu:2005:PML

- [Hu05] Fang Q. Hu. A perfectly matched layer absorbing boundary condition for linearized Euler equations with a non-uniform mean flow. *Journal of Computational Physics*, 208(2):469–492, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001117>.

Huang:2001:PAF

- [Hua01a] Weizhang Huang. Practical aspects of formulation and solution of moving mesh partial differential equations. *Journal of Computational Physics*, 171(2):753–775, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968093>.

Huang:2001:VMA

- [Hua01b] Weizhang Huang. Variational mesh adaptation: Isotropy and equidistribution. *Journal of Computational Physics*, 174(2):903–924, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969451>.

Huang:2005:MTA

- [Hua05] Weizhang Huang. Metric tensors for anisotropic mesh generation. *Journal of Computational Physics*, 204(2):633–665,

April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004310>.

Huang:2007:PDT

- [Hua07] D. G. Huang. Preconditioned dual-time procedures and its application to simulating the flow with cavitations. *Journal of Computational Physics*, 223(2):685–689, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004682>.

Hubbard:2007:NOT

- [Hub07] Matthew Hubbard. Non-oscillatory third order fluctuation splitting schemes for steady scalar conservation laws. *Journal of Computational Physics*, 222(2):740–768, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003937>.

Hubbard:2008:DFD

- [Hub08] Matthew Hubbard. Discontinuous fluctuation distribution. *Journal of Computational Physics*, 227(24):10125–10147, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004452>.

Humphries:2005:MIE

- [Hum05] Stanley Humphries, Jr. Modeling ion extraction from a free-plasma surface with a flexible conformal mesh. *Journal of Computational Physics*, 204(2):587–597, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004292>.

Hunke:2001:VPS

- [Hun01] Elizabeth C. Hunke. Viscous-plastic sea ice dynamics with the EVP model: Linearization issues. *Journal of Computational Physics*, 170(1):18–38, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967105>.

Haselbacher:2003:CDF

- [HV03] Andreas Haselbacher and Oleg V. Vasilyev. Commutative discrete filtering on unstructured grids based on least-squares techniques. *Journal of Computational Physics*, 187(1):197–211, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000950>.

Houzeaux:2009:MPF

- [HVAC09] G. Houzeaux, M. Vázquez, R. Aubry, and J. M. Cela. A massively parallel fractional step solver for incompressible flows. *Journal of Computational Physics*, 228(17):6316–6332, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002769>.

Hart:2005:AGF

- [HvHHS05] A. Hart, G. M. von Hippel, R. R. Horgan, and L. C. Storti. Automatically generating Feynman rules for improved lattice field theories. *Journal of Computational Physics*, 209(1):340–353, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500135X>.

Hesthaven:2002:NHO

- [HW02] J. S. Hesthaven and T. Warburton. Nodal high-order methods on unstructured grids: I. Time-domain solution of Maxwell’s equations. *Journal of Computational Physics*, 181(1):186–221, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971184>.

Helsing:2005:LED

- [HW05] Johan Helsing and Eddie Wadbro. Laplace’s equation and the Dirichlet–Neumann map: a new mode for Mikhlin’s method. *Journal of Computational Physics*, 202(2):391–410, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002918>.

Hardt:2008:EMI

- [HW08] S. Hardt and F. Wondra. Evaporation model for interfacial flows based on a continuum-field representation of the source terms. *Journal of Computational Physics*, 227(11):5871–5895, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001228>.

Hwang:2003:USN

- [Hwa03] Yao-Hsin Hwang. Upwind scheme for non-hyperbolic systems. *Journal of Computational Physics*, 192(2):643–676, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004121>.

Harris:2008:EQF

- [HWL08] Rob Harris, Z. J. Wang, and Yen Liu. Efficient quadrature-free high-order spectral volume method on unstructured grids: Theory and 2D implementation. *Journal of Computational Physics*, 227(3):1620–1642, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004160>.

Hwang:2007:NST

- [HWW07] Tsung-Min Hwang, Wei-Cheng Wang, and Weichung Wang. Numerical schemes for three-dimensional irregular shape quantum dots over curvilinear coordinate systems. *Journal of Computational Physics*, 226(1):754–773, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002057>.

Hu:2009:SEF

- [HWWL09] Z. Hu, S. M. Wise, C. Wang, and J. S. Lowengrub. Stable and efficient finite-difference nonlinear-multigrid schemes for the phase field crystal equation. *Journal of Computational Physics*, 228(15):5323–5339, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002058>.

Hongbin:2005:CSP

- [HX05] Jin Hongbin and Ding Xin. On criterions for smoothed particle hydrodynamics kernels in stable field. *Journal of Computational Physics*, 202(2):699–709, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003122>.

Hsieh:2009:BSL

- [HY09] Po-Wen Hsieh and Suh-Yuh Yang. A bubble-stabilized least-squares finite element method for steady MHD duct flow problems at high Hartmann numbers. *Journal of Computational Physics*, 228(22):8301–8320, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004410>. See erratum [HY11].

Hsieh:2011:EBS

- [HY11] Po-Wen Hsieh and Suh-Yuh Yang. Erratum to “A bubble-stabilized least-squares finite element method for steady MHD duct flow problems at high Hartmann numbers” [J. Comput. Phys. **228** (2009) 8301–8320]. *Journal of Computational Physics*, 230(2):474–475, January 20, 2011. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999110005474>. See [HY09].

Hong:2007:MSR

- [HyLL07] Jialin Hong, Xiao yan Liu, and Chun Li. Multi-symplectic Runge–Kutta–Nyström methods for nonlinear Schrödinger equations with variable coefficients. *Journal of Computational Physics*, 226(2):1968–1984, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002720>.

Heerlein:2002:NLD

- [HZ02] Claus Heerlein and Günter Zwicknagel. Nonlinear Landau damping in spherically symmetric Vlasov Poisson systems. *Journal of Computational Physics*, 180(2):497–505, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970968>.

Hansen:2007:USM

- [HZ07a] Glen Hansen and Andrew Zardecki. Unstructured surface mesh adaptation using the Laplace–Beltrami target metric approach. *Journal of Computational Physics*, 225(1):165–182, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005821>.

Hinze:2007:OCF

- [HZ07b] Michael Hinze and Stefan Ziegenbalg. Optimal control of the free boundary in a two-phase Stefan problem. *Journal of Computational Physics*, 223(2):657–684, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004670>.

Han:2008:SLA

- [HZ08] Houde Han and Zhiwen Zhang. Split local absorbing conditions for one-dimensional nonlinear Klein–Gordon equation on unbounded domain. *Journal of Computational Physics*, 227(20):8992–9004, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003823>.

Hansen:2004:FEM

- [HZGB04] Glen Hansen, Andrew Zardecki, Doran Greening, and Randy Bos. A finite element method for unstructured grid smoothing. *Journal of Computational Physics*, 194(2):611–631, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004984>.

Hansen:2005:FEM

- [HZGB05] Glen Hansen, Andrew Zardecki, Doran Greening, and Randy Bos. A finite element method for three-dimensional unstructured grid smoothing. *Journal of Computational Physics*, 202(1):281–297, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002864>.

Imai:2006:ASI

- [IA06a] Yohsuke Imai and Takayuki Aoki. Accuracy study of the IDO scheme by Fourier analysis. *Journal of Computational Physics*, 217(2):453–472, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000179>.

Imai:2006:SCB

- [IA06b] Yohsuke Imai and Takayuki Aoki. Stable coupling between vector and scalar variables for the IDO scheme on collocated grids. *Journal of Computational Physics*, 215(1):81–97, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004808>.

Imai:2008:CFI

- [IAT08] Yohsuke Imai, Takayuki Aoki, and Kenji Takizawa. Conservative form of interpolated differential operator scheme for compressible and incompressible fluid dynamics. *Journal of Computational Physics*, 227(4):2263–2285, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700530X>.

Inoue:2004:MSM

- [ICO04] Yasuhiro Inoue, Yu Chen, and Hirotada Ohashi. A mesoscopic simulation model for immiscible multiphase fluids. *Journal of Computational Physics*, 201(1):191–203, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002074>.

Ikeda:2004:MSE

- [ID04] Tomoaki Ikeda and Paul A. Durbin. Mesh stretch effects on convection in flow simulations. *Journal of Computational Physics*, 199(1):110–125, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000786>.

Iskakov:2004:IDF

- [IDD04] A. B. Iskakov, S. Descombes, and E. Dormy. An integro-differential formulation for magnetic induction in bounded domains: boundary element-finite volume method. *Journal of Computational Physics*, 197(2):540–554, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300651X>.

Izquierdo:2009:OPL

- [IF09] Salvador Izquierdo and Norberto Fueyo. Optimal preconditioning of lattice Boltzmann methods. *Journal of Computational Physics*, 228(17):6479–6495, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900312X>.

Iollo:2001:AOM

- [IFZ01] A. Iollo, M. Ferlauto, and L. Zannetti. An aerodynamic optimization method based on the inverse problem adjoint equations. *Journal of Computational Physics*, 173(1):87–115, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968457>.

Illingworth:2005:NSD

- [IG05] T. C. Illingworth and I. O. Golosnoy. Numerical solutions of diffusion-controlled moving boundary problems which conserve solute. *Journal of Computational Physics*, 209(1):207–225, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000859>.

Izaguirre:2004:SHM

- [IH04] Jesús A. Izaguirre and Scott S. Hampton. Shadow hybrid Monte Carlo: an efficient propagator in phase space of macromolecules. *Journal of Computational Physics*, 200(2):581–604, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001809>.

Iskandarani:2003:TDS

- [IHL03] M. Iskandarani, D. B. Haidvogel, and J. C. Levin. A three-dimensional spectral element model for the solution of the hydrostatic primitive equations. *Journal of Computational Physics*, 186(2):397–425, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000251>.

Inutsuka:2002:RSP

- [iI02] Shu ichiro Inutsuka. Reformulation of smoothed particle hydrodynamics with Riemann solver. *Journal of Computational Physics*, 179(1):238–267, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970531>.

Idomura:2007:NCG

- [IITV07] Yasuhiro Idomura, Masato Ida, Shinji Tokuda, and Laurent Villard. New conservative gyrokinetic full- f Vlasov code and its comparison to gyrokinetic δf particle-in-cell code. *Journal of Computational Physics*, 226(1):244–262, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001556>.

Ingber:2001:GIG

- [IK01] Marc S. Ingber and Steven N. Kempka. A Galerkin implementation of the generalized Helmholtz decomposition for vorticity formulations. *Journal of Computational Physics*, 169(1):215–237, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967245>.

Ikeno:2007:FDI

- [IK07] Tsutomu Ikeno and Takeo Kajishima. Finite-difference immersed boundary method consistent with wall conditions for incompressible turbulent flow simulations. *Journal of Computational Physics*, 226(2):1485–1508, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002458>.

Ijaz:2008:NPB

- [IKL⁺08] Umer Zeeshan Ijaz, Anil Kumar Khambampati, Jeong Seong Lee, Sin Kim, and Kyung Youn Kim. Nonstationary phase boundary estimation in electrical impedance tomography using unscented Kalman filter. *Journal of Computational Physics*, 227(15):7089–7112, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000132>.

Islas:2001:GIN

- [IKS01] A. L. Islas, D. A. Karpeev, and C. M. Schober. Geometric integrators for the nonlinear Schrödinger equation. *Journal of Computational Physics*, 173(1):116–148, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968548>.

Imadera:2009:NMS

- [IKS⁺09] Kenji Imadera, Yasuaki Kishimoto, Daisuke Saito, Jiquan Li, and Takayuki Utsumi. A numerical method for solving the Vlasov–Poisson equation based on the conservative IDO scheme. *Journal of Computational Physics*, 228(23):8919–8943, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004938>.

Ito:2009:WCA

- [ILL09] Kazufumi Ito, Ming-Chih Lai, and Zhilin Li. A well-conditioned augmented system for solving Navier–Stokes equations in irregular domains. *Journal of Computational Physics*, 228(7):2616–2628, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800661X>.

Im:2005:NAM

- [IM05] Kichang Im and Yoshihiro Mochimaru. Numerical analysis on magnetic levitation of liquid metals, using a spectral finite difference scheme. *Journal of Computational Physics*, 203(1):112–128, February 10, 2005. CODEN

JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).
URL <http://www.sciencedirect.com/science/article/pii/S0021999104003201>.

Ishida:2007:RFO

- [IM07] Hideshi Ishida and Kazunari Momose. Revaluation of the first-order upwind difference scheme to solve coarse-grained master equations. *Journal of Computational Physics*, 221(1):106–121, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002774>.

Inamuro:2004:LBM

- [IOTK04] T. Inamuro, T. Ogata, S. Tajima, and N. Konishi. A lattice Boltzmann method for incompressible two-phase flows with large density differences. *Journal of Computational Physics*, 198(2):628–644, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000567>.

Ito:2008:HOC

- [IQ08] Kazufumi Ito and Zhonghua Qiao. A high order compact MAC finite difference scheme for the Stokes equations: Augmented variable approach. *Journal of Computational Physics*, 227(17):8177–8190, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003070>.

Ito:2008:DDS

- [IQT08] Kazufumi Ito, Zhonghua Qiao, and Jari Toivanen. A domain decomposition solver for acoustic scattering by elastic objects in layered media. *Journal of Computational Physics*, 227(19):8685–8698, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003379>.

Ismail:2009:AEC

- [IR09] Farzad Ismail and Philip L. Roe. Affordable, entropy-consistent Euler flux functions II: Entropy production at

shocks. *Journal of Computational Physics*, 228(15):5410–5436, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002113>.

Islas:2004:PPS

- [IS04] A. L. Islas and C. M. Schober. On the preservation of phase space structure under multisymplectic discretization. *Journal of Computational Physics*, 197(2):585–609, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006533>.

Imamura:2005:ASS

- [ISNY05] Taro Imamura, Kojiro Suzuki, Takashi Nakamura, and Masahiro Yoshida. Acceleration of steady-state lattice Boltzmann simulations on non-uniform mesh using local time step method. *Journal of Computational Physics*, 202(2):645–663, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003006>.

Ii:2007:CMM

- [IX07] S. Ii and F. Xiao. CIP/multi-moment finite volume method for Euler equations: a semi-Lagrangian characteristic formulation. *Journal of Computational Physics*, 222(2):849–871, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004189>.

Ii:2009:HOM

- [IX09] Satoshi Ii and Feng Xiao. High order multi-moment constrained finite volume method. Part I: Basic formulation. *Journal of Computational Physics*, 228(10):3669–3707, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000655>.

Inamuro:2002:LBM

- [IYI⁺02] Takaji Inamuro, Masato Yoshino, Hiroshi Inoue, Riki Mizuno, and Fumimaru Ogino. A lattice Boltzmann method for a binary miscible fluid mixture and its application to a heat-transfer problem. *Journal of Computa-*

tional Physics, 179(1):201–215, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970518>.

Janssen:2008:BIM

- [JA08] P. J. A. Janssen and P. D. Anderson. A boundary-integral model for drop deformation between two parallel plates with non-unit viscosity ratio drops. *Journal of Computational Physics*, 227(20):8807–8819, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800346X>.

Jocksch:2005:ASC

- [JAK05] A. Jocksch, N. A. Adams, and L. Kleiser. An asymptotically stable compact upwind-biased finite-difference scheme for hyperbolic systems. *Journal of Computational Physics*, 208(2):435–454, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000938>.

Janhunen:2000:PCM

- [Jan00] P. Janhunen. A positive conservative method for magnetohydrodynamics based on HLL and Roe methods. *Journal of Computational Physics*, 160(2):649–661, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964799>.

Janssen:2008:POW

- [Jan08] Peter A. E. M. Janssen. Progress in ocean wave forecasting. *Journal of Computational Physics*, 227(7):3572–3594, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001659>.

Jaouen:2007:PLM

- [Jao07] Stéphane Jaouen. A purely Lagrangian method for computing linearly-perturbed flows in spherical geometry. *Journal of Computational Physics*, 225(1):464–490, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006012>.

Jardin:2004:TFE

- [Jar04] S. C. Jardin. A triangular finite element with first-derivative continuity applied to fusion MHD applications. *Journal of Computational Physics*, 200(1):133–152, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001366>.

Jardin:2007:HOI

- [JBF07] S. C. Jardin, J. Breslau, and N. Ferraro. A high-order implicit finite element method for integrating the two-fluid magnetohydrodynamic equations in two dimensions. *Journal of Computational Physics*, 226(2):2146–2174, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003038>.

Jardin:2008:DPG

- [JBHK08] S. C. Jardin, G. Bateman, G. W. Hammett, and L. P. Ku. On 1D diffusion problems with a gradient-dependent diffusion coefficient. *Journal of Computational Physics*, 227(20):8769–8775, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003616>.

Jaeger:2002:FTA

- [JC02] M. Jaeger and M. Carin. The front-tracking ALE method: Application to a model of the freezing of cell suspensions. *Journal of Computational Physics*, 179(2):704–735, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970841>.

Jin:2006:BKM

- [JC06a] Bangti Jin and Wen Chen. Boundary knot method based on geodesic distance for anisotropic problems. *Journal of Computational Physics*, 215(2):614–629, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005073>.

Johnsen:2006:IWS

- [JC06b] Eric Johnsen and Tim Colonius. Implementation of WENO schemes in compressible multicomponent flow problems. *Journal of Computational Physics*, 219(2):715–732, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002014>.

Jung:2007:VLS

- [JCT07] Y. Jung, K. T. Chu, and S. Torquato. A variational level set approach for surface area minimization of triply-periodic surfaces. *Journal of Computational Physics*, 223(2):711–730, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004700>.

Jenny:2004:ENM

- [JD04] Mathieu Jenny and Jan Dusek. Efficient numerical method for the direct numerical simulation of the flow past a single light moving spherical body in transitional regimes. *Journal of Computational Physics*, 194(1):215–232, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004674>.

Jacobs:2009:HOW

- [JD09] Gustaaf B. Jacobs and Wai-Sun Don. A high-order WENO–Z finite difference based particle-source-in-cell method for computation of particle-laden flows with shocks. *Journal of Computational Physics*, 228(5):1365–1379, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005585>.

Jolley:2009:MTH

- [JG09] Kenny Jolley and Simon P. A. Gill. Modelling transient heat conduction in solids at multiple length and time scales: a coupled non-equilibrium molecular dynamics/continuum approach. *Journal of Computational Physics*, 228(19):7412–7425, October 20, 2009. CODEN

JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).
URL <http://www.sciencedirect.com/science/article/pii/S0021999109003672>.

Jacobs:2006:HON

- [JH06] G. B. Jacobs and J. S. Hesthaven. High-order nodal discontinuous Galerkin particle-in-cell method on unstructured grids. *Journal of Computational Physics*, 214(1):96–121, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004250>.

Jia:2008:KDC

- [JH08] Jun Jia and Jingfang Huang. Krylov deferred correction accelerated method of lines transpose for parabolic problems. *Journal of Computational Physics*, 227(3):1739–1753, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004287>.

Jouvet:2009:NSR

- [JHB⁺09] Guillaume Jouvet, Matthias Huss, Heinz Blatter, Marco Picasso, and Jacques Rappaz. Numerical simulation of Rhonegletscher from 1874 to 2100. *Journal of Computational Physics*, 228(17):6426–6439, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900285X>.

Jiang:2007:SND

- [JHSZ07] Jun Jiang, Yunqing Huang, Shi Shu, and Shi Zeng. Some new discretization and adaptation and multigrid methods for 2-D 3-T diffusion equations. *Journal of Computational Physics*, 224(1):168–181, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000150>.

Jing:2009:LTV

- [JHZ⁺09] Yan-Fei Jing, Ting-Zhu Huang, Yong Zhang, Liang Li, Guang-Hui Cheng, Zhi-Gang Ren, Yong Duan, Tomohiro Sogabe, and Bruno Carpentieri. Lanczos-type variants of the COCR method for complex nonsymmetric linear systems. *Journal*

of *Computational Physics*, 228(17):6376–6394, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002800>.

Jiao:2007:FOU

- [Jia07] Xiangmin Jiao. Face offsetting: a unified approach for explicit moving interfaces. *Journal of Computational Physics*, 220(2):612–625, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600252X>.

Jaiman:2006:CLT

- [JJGL06] R. K. Jaiman, X. Jiao, P. H. Geubelle, and E. Loth. Conservative load transfer along curved fluid-solid interface with non-matching meshes. *Journal of Computational Physics*, 218(1):372–397, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000891>. See erratum [JJGL07].

Jaiman:2007:ECL

- [JJGL07] R. K. Jaiman, X. Jiao, P. H. Geubelle, and E. Loth. Erratum to “Conservative load transfer along curved fluid-solid interface with non-matching meshes” [J. Comput. Phys. **218**(1) (2006) 372–397]. *Journal of Computational Physics*, 224(2):1307, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005924>. See [JJGL06].

Jawahar:2000:HRP

- [JK00] P. Jawahar and Hemant Kamath. A high-resolution procedure for Euler and Navier–Stokes computations on unstructured grids. *Journal of Computational Physics*, 164(1):165–203, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965963>.

Jeong:2002:OCS

- [JK02] Ja Hoon Jeong and In Seok Kang. Optimization of the crystal surface temperature distribution in the single-crystal

growth process by the Czochralski method. *Journal of Computational Physics*, 177(2):284–312, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970117>.

Junk:2005:AAL

- [JKL05] Michael Junk, Axel Klar, and Li-Shi Luo. Asymptotic analysis of the lattice Boltzmann equation. *Journal of Computational Physics*, 210(2):676–704, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002573>.

Johnston:2002:FDS

- [JL02] Hans Johnston and Jian-Guo Liu. Finite difference schemes for incompressible flow based on local pressure boundary conditions. *Journal of Computational Physics*, 180(1):120–154, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970798>.

James:2004:SCV

- [JL04a] Ashley J. James and John Lowengrub. A surfactant-conserving volume-of-fluid method for interfacial flows with insoluble surfactant. *Journal of Computational Physics*, 201(2):685–722, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400261X>.

Johnston:2004:ASE

- [JL04b] Hans Johnston and Jian-Guo Liu. Accurate, stable and efficient Navier–Stokes solvers based on explicit treatment of the pressure term. *Journal of Computational Physics*, 199(1):221–259, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400083X>.

Jenny:2009:MCW

- [JL09] Patrick Jenny and Ivan Lunati. Modeling complex wells with the multi-scale finite-volume method. *Journal of Compu-*

tational Physics, 228(3):687–702, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005020>.

Jamet:2001:SGM

- [JLCD01] D. Jamet, O. Lebaigue, N. Coutris, and J. M. Delhay. The second gradient method for the direct numerical simulation of liquid-vapor flows with phase change. *Journal of Computational Physics*, 169(2):624–651, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966920>.

Jobelin:2006:FEP

- [JLL⁺06] M. Jobelin, C. Lapuerta, J.-C. Latché, Ph. Angot, and B. Piar. A finite element penalty-projection method for incompressible flows. *Journal of Computational Physics*, 217(2):502–518, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000209>.

Jin:2005:CMV

- [JLOT05a] Shi Jin, Hailiang Liu, Stanley Osher, and Richard Tsai. Computing multi-valued physical observables for the high frequency limit of symmetric hyperbolic systems. *Journal of Computational Physics*, 210(2):497–518, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002378>.

Jin:2005:CMP

- [JLOT05b] Shi Jin, Hailiang Liu, Stanley Osher, and Yen-Hsi Richard Tsai. Computing multivalued physical observables for the semiclassical limit of the Schrödinger equation. *Journal of Computational Physics*, 205(1):222–241, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004656>.

Jenny:2003:MSF

- [JLT03] P. Jenny, S. H. Lee, and H. A. Tchelepi. Multi-scale finite-volume method for elliptic problems in subsurface flow simulation. *Journal of Computational Physics*, 187(1):47–67, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000755>.

Jenny:2006:AFI

- [JLT06] P. Jenny, S. H. Lee, and H. A. Tchelepi. Adaptive fully implicit multi-scale finite-volume method for multi-phase flow and transport in heterogeneous porous media. *Journal of Computational Physics*, 217(2):627–641, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600026X>.

Jones:2000:ACC

- [JM00] W. P. Jones and K. R. Menzies. Analysis of the cell-centred finite volume method for the diffusion equation. *Journal of Computational Physics*, 165(1):45–68, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965951>.

Jomaa:2005:EFD

- [JM05] Z. Jomaa and C. Macaskill. The embedded finite difference method for the Poisson equation in a domain with an irregular boundary and Dirichlet boundary conditions. *Journal of Computational Physics*, 202(2):488–506, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002955>.

Jothiprasad:2003:HOT

- [JMC03] Giridhar Jothiprasad, Dimitri J. Mavriplis, and David A. Caughey. Higher-order time integration schemes for the unsteady Navier-Stokes equations on unstructured meshes. *Journal of Computational Physics*, 191(2):542–566, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003309>.

Johnson:2001:SCC

- [JMK01] Bruce R. Johnson, Jeffrey L. Mackey, and James L. Kinsey. Solution of Cartesian and curvilinear quantum equations via multiwavelets on the interval. *Journal of Computational Physics*, 168(2):356–383, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967014>.

Jenny:2001:PSB

- [JML⁺01] P. Jenny, M. Muradoğlu, K. Liu, S. B. Pope, and D. A. Caughey. PDF simulations of a bluff-body stabilized flow. *Journal of Computational Physics*, 169(1):1–23, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196704X>.

Jones:2002:ANP

- [JMP02] Don A. Jones, Len G. Margolin, and Andrew C. Poje. Accuracy and nonoscillatory properties of enslaved difference schemes. *Journal of Computational Physics*, 181(2):705–728, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297155X>.

Jin:2004:NSG

- [JMZ04] Shi Jin, Peter A. Markowich, and Chunxiong Zheng. Numerical simulation of a generalized Zakharov system. *Journal of Computational Physics*, 201(1):376–395, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002347>.

Jin:2007:STM

- [JN07] Shi Jin and Kyle A. Novak. A semiclassical transport model for two-dimensional thin quantum barriers. *Journal of Computational Physics*, 226(2):1623–1644, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002525>.

Jones:2005:MTF

- [Jon05] Don A. Jones. Modified-truncation finite difference schemes. *Journal of Computational Physics*, 209(1):322–339, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001324>.

Jordan:2007:SRP

- [Jor07] Stephen A. Jordan. The spatial resolution properties of composite compact finite differencing. *Journal of Computational Physics*, 221(2):558–576, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003032>.

Jiang:2006:SST

- [JOS06] Fangming Jiang, Mónica S. A. Oliveira, and Antonio C. M. Sousa. SPH simulation of transition to turbulence for planar shear flow subjected to a streamwise magnetic field. *Journal of Computational Physics*, 217(2):485–501, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000192>.

Jin:2000:DMS

- [JP00] Shi Jin and Lorenzo Pareschi. Discretization of the multiscale semiconductor Boltzmann equation by diffusive relaxation schemes. *Journal of Computational Physics*, 161(1):312–330, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965069>.

Jones:2003:IEI

- [JP03] Samuel T. Jones and Scott E. Parker. Including electron inertia without advancing electron flow. *Journal of Computational Physics*, 191(1):322–327, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300305X>.

Jenny:2001:HAJ

- [JPMC01] P. Jenny, S. B. Pope, M. Muradoğlu, and D. A. Caughey. A hybrid algorithm for the joint PDF equation of turbulent reac-

tive flows. *Journal of Computational Physics*, 166(2):218–252, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966464>.

Jiang:2003:SKI

- [JR03] Shidong Jiang and Vladimir Rokhlin. Second kind integral equations for the classical potential theory on open surfaces I: analytical apparatus. *Journal of Computational Physics*, 191(1):40–74, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003048>.

Jiang:2004:SKI

- [JR04] Shidong Jiang and Vladimir Rokhlin. Second kind integral equations for the classical potential theory on open surfaces II. *Journal of Computational Physics*, 195(1):1–16, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005096>.

Jaisankar:2007:DRE

- [JR07] S. Jaisankar and S. V. Raghurama Rao. Diffusion regulation for Euler solvers. *Journal of Computational Physics*, 221(2):577–599, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003044>.

Jaisankar:2009:CRH

- [JR09] S. Jaisankar and S. V. Raghurama Rao. A central Rankine–Hugoniot solver for hyperbolic conservation laws. *Journal of Computational Physics*, 228(3):770–798, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005123>.

Jamalyaria:2005:QBM

- [JRS05] Farokh Jamalyaria, Rori Rohlf, and Russell Schwartz. Queue-based method for efficient simulation of biological self-assembly systems. *Journal of Computational*

Physics, 204(1):100–120, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004097>.

Jung:2005:NSH

- [JS05] Rho-Taek Jung and Toru Sato. Numerical simulation of high Schmidt number flow over a droplet by using moving unstructured mesh. *Journal of Computational Physics*, 203(1):221–249, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003250>.

Jung:2007:NCI

- [JS07] Jae-Hun Jung and Bernie D. Shizgal. On the numerical convergence with the inverse polynomial reconstruction method for the resolution of the Gibbs phenomenon. *Journal of Computational Physics*, 224(2):477–488, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000332>.

Jiang:2008:BTN

- [JSCZ08] Haiyan Jiang, Sihong Shao, Wei Cai, and Pingwen Zhang. Boundary treatments in non-equilibrium Green’s function (NEGF) methods for quantum transport in nano-MOSFETs. *Journal of Computational Physics*, 227(13):6553–6573, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800168X>.

Jamet:2002:TCS

- [JTB02] Didier Jamet, David Torres, and J. U. Brackbill. On the theory and computation of surface tension: The elimination of parasitic currents through energy conservation in the second-gradient method. *Journal of Computational Physics*, 182(1):262–276, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971652>.

Jenny:2009:UCN

- [JTL09] Patrick Jenny, Hamdi A. Tchelepi, and Seong H. Lee. Unconditionally convergent nonlinear solver for hyperbolic conservation laws with S-shaped flux functions. *Journal of Computational Physics*, 228(20):7497–7512, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003301>.

Javierre:2007:LSM

- [JVVS07] E. Javierre, C. Vuik, F. J. Vermolen, and A. Segal. A level set method for three dimensional vector Stefan problems: Dissolution of stoichiometric particles in multi-component alloys. *Journal of Computational Physics*, 224(1):222–240, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000599>.

Jin:2002:RNS

- [JW02] Shi Jin and Xuele Wang. Robust numerical simulation of porosity evolution in chemical vapor infiltration: II. Two-dimensional anisotropic fronts. *Journal of Computational Physics*, 179(2):557–577, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970749>.

Jin:2003:RNS

- [JW03] Shi Jin and Xuele Wang. Robust numerical simulation of porosity evolution in chemical vapor infiltration III: three space dimension. *Journal of Computational Physics*, 186(2):582–595, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000834>.

Jin:2006:HPS

- [JW06] Shi Jin and Xin Wen. Hamiltonian-preserving schemes for the Liouville equation of geometrical optics with discontinuous local wave speeds. *Journal of Computational Physics*, 214(2):672–697, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999105004687>.

Julien:2009:EMD

- [JW09] Keith Julien and Mike Watson. Efficient multi-dimensional solution of PDEs using Chebyshev spectral methods. *Journal of Computational Physics*, 228(5):1480–1503, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800569X>.

Jin:2000:RNS

- [JWSC00] Shi Jin, Xuelei Wang, Thomas L. Starr, and Xinfu Chen. Robust numerical simulation of porosity evolution in chemical vapor infiltration I: Two space dimension. *Journal of Computational Physics*, 162(2):467–482, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965501>.

Jin:2006:AGM

- [JX06] Changqiu Jin and Kun Xu. An adaptive grid method for two-dimensional viscous flows. *Journal of Computational Physics*, 218(1):68–81, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600060X>.

Jin:2007:UMG

- [JX07] Changqiu Jin and Kun Xu. A unified moving grid gas-kinetic method in Eulerian space for viscous flow computation. *Journal of Computational Physics*, 222(1):155–175, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003494>.

Jin:2008:CHF

- [JY08] Shi Jin and Dongsheng Yin. Computational high frequency waves through curved interfaces via the Liouville equation and geometric theory of diffraction. *Journal of Computational Physics*, 227(12):6106–6139, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001241>.

Jin:2008:IRC

- [JZ08] Bangti Jin and Jun Zou. Inversion of Robin coefficient by a spectral stochastic finite element approach. *Journal of Computational Physics*, 227(6):3282–3306, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005335>.

Kallinderis:2005:INS

- [KA05] Y. Kallinderis and H. T. Ahn. Incompressible Navier–Stokes method with general hybrid meshes. *Journal of Computational Physics*, 210(1):75–108, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001993>.

Kolobov:2007:USR

- [KAA⁺07] V. I. Kolobov, R. R. Arslanbekov, V. V. Aristov, A. A. Frolova, and S. A. Zabelok. Unified solver for rarefied and continuum flows with adaptive mesh and algorithm refinement. *Journal of Computational Physics*, 223(2):589–608, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004633>.

Khenner:2001:NSG

- [KAIN01] M. Khenner, A. Averbuch, M. Israeli, and M. Nathan. Numerical simulation of grain-boundary grooving by level set method. *Journal of Computational Physics*, 170(2):764–784, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967609>.

Kirkpatrick:2003:RCB

- [KAK03] M. P. Kirkpatrick, S. W. Armfield, and J. H. Kent. A representation of curved boundaries for the solution of the Navier–Stokes equations on a staggered three-dimensional Cartesian grid. *Journal of Computational Physics*, 184(1):1–36, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910200013X>.

Kanaun:2002:NMS

- [Kan02] S. K. Kanaun. A numerical method for the solution of electromagnetic wave diffraction problems on perfectly conducting screens. *Journal of Computational Physics*, 176(1):170–195, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969748>. ■

Karafyllidis:2004:SEG

- [Kar04] Ioannis G. Karafyllidis. Simulation of entanglement generation and variation in quantum computation. *Journal of Computational Physics*, 200(1):383–397, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400172X>.

Knopp:2006:GFA

- [KAS06] Tobias Knopp, Thomas Alrutz, and Dieter Schwamborn. A grid and flow adaptive wall-function method for RANS turbulence modelling. *Journal of Computational Physics*, 220(1):19–40, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002208>. ■

Kasahara:2007:IVA

- [Kas07] Akira Kasahara. Initial-value approach to study the inertio-gravity waves without the ‘traditional approximation’. *Journal of Computational Physics*, 225(2):2175–2197, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001258>.

Kong:2008:EAM

- [KAS08] Rong Kong, Martin Ambrose, and Jerome Spanier. Efficient, automated Monte Carlo methods for radiation transport. *Journal of Computational Physics*, 227(22):9463–9476, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003628>. ■

Kaul:2003:NBC

- [Kau03] Upender K. Kaul. New boundary constraints for elliptic systems used in grid generation problems. *Journal of Computational Physics*, 189(2):476–492, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002298>.

Kannenbergs:2000:SEP

- [KB00] Keith C. Kannenberg and Iain D. Boyd. Strategies for efficient particle resolution in the direct simulation Monte Carlo method. *Journal of Computational Physics*, 157(2):727–745, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963970>.

Kolesnikov:2001:EHO

- [KB01] A. Kolesnikov and A. J. Baker. An efficient high-order Taylor weak statement formulation for the Navier–Stokes equations. *Journal of Computational Physics*, 173(2):549–574, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968937>.

Kingham:2004:IVF

- [KB04] R. J. Kingham and A. R. Bell. An implicit Vlasov–Fokker–Planck code to model non-local electron transport in 2-D with magnetic fields. *Journal of Computational Physics*, 194(1):1–34, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004583>.

Krivodonova:2006:HOA

- [KB06] Lilia Krivodonova and Marsha Berger. High-order accurate implementation of solid wall boundary conditions in curved geometries. *Journal of Computational Physics*, 211(2):492–512, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002846>.

Kurdi:2008:SEM

- [KB08] Mohammad H. Kurdi and Philip S. Beran. Spectral element method in time for rapidly actuated systems. *Journal of Computational Physics*, 227(3):1809–1835, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004342>.

Kim:2000:SOT

- [KC00] Dongjoo Kim and Haecheon Choi. A second-order time-accurate finite volume method for unsteady incompressible flow on hybrid unstructured grids. *Journal of Computational Physics*, 162(2):411–428, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096546X>.

Kim:2006:IBM

- [KC06] Dokyun Kim and Haecheon Choi. Immersed boundary method for flow around an arbitrarily moving body. *Journal of Computational Physics*, 212(2):662–680, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003505>.

Kanevsky:2007:AIE

- [KCGH07] Alex Kanevsky, Mark H. Carpenter, David Gottlieb, and Jan S. Hesthaven. Application of implicit-explicit high order Runge–Kutta methods to discontinuous-Galerkin schemes. *Journal of Computational Physics*, 225(2):1753–1781, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000861>.

Kanevsky:2006:IFS

- [KCH06] Alex Kanevsky, Mark H. Carpenter, and Jan S. Hesthaven. Idempotent filtering in spectral and spectral element methods. *Journal of Computational Physics*, 220(1):41–58, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600221X>.

Knoll:2003:BAT

- [KCMM03] D. A. Knoll, L. Chacon, L. G. Margolin, and V. A. Mousseau. On balanced approximations for time integration of multiple time scale systems. *Journal of Computational Physics*, 185(2):583–611, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000081>.

Kamath:2009:RAA

- [KD09] Hemant Kamath and Xiaoju Du. A roe-average algorithm for a granular-gas model with non-conservative terms. *Journal of Computational Physics*, 228(21):8187–8202, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004422>.

Knaepen:2005:LES

- [KDC05] Bernard Knaepen, Olivier Debliquy, and Daniele Carati. Large-eddy simulation without filter. *Journal of Computational Physics*, 205(1):98–107, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004590>.

Kim:2007:NMS

- [KDF07] Tae-Yeon Kim, John Dolbow, and Eliot Fried. A numerical method for a second-gradient theory of incompressible fluid flow. *Journal of Computational Physics*, 223(2):551–570, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004529>.

Keetels:2007:FSW

- [KDK⁺07] G. H. Keetels, U. D’Ortona, W. Krämer, H. J. H. Clercx, K. Schneider, and G. J. F. van Heijst. Fourier spectral and wavelet solvers for the incompressible Navier–Stokes equations with volume-penalization: Convergence of a dipole-wall collision. *Journal of Computational Physics*, 227(2):919–945, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003336>.

Karimabadi:2005:NAM

- [KDOO05] H. Karimabadi, J. Driscoll, Y. A. Omelchenko, and N. Omid. A new asynchronous methodology for modeling of physical systems: breaking the curse of Courant condition. *Journal of Computational Physics*, 205(2):755–775, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004917>.

Kubatko:2008:TSR

- [KDW08] Ethan J. Kubatko, Clint Dawson, and Joannes J. Westerink. Time step restrictions for Runge–Kutta discontinuous Galerkin methods on triangular grids. *Journal of Computational Physics*, 227(23):9697–9710, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003963>.

Kampanis:2006:SGH

- [KE06] Nikolaos A. Kampanis and John A. Ekaterinaris. A staggered grid, high-order accurate method for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 215(2):589–613, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005061>.

Kuprat:2009:ASI

- [KE09] Andrew P. Kuprat and Daniel R. Einstein. An anisotropic scale-invariant unstructured mesh generator suitable for volumetric imaging data. *Journal of Computational Physics*, 228(3):619–640, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004981>.

Kavousanakis:2007:PCP

- [KEB⁺07] M. E. Kavousanakis, R. Erban, A. G. Boudouvis, C. W. Gear, and I. G. Kevrekidis. Projective and coarse projective integration for problems with continuous symmetries. *Journal of Computational Physics*, 225(1):382–407, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005973>.

Keller:2005:ABC

- [Kel05] Joseph B. Keller. Artificial boundary conditions for axisymmetric slow viscous flow. *Journal of Computational Physics*, 204(2):399–403, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004346>.

Knudsen:2006:RAR

- [KF06] Henning Arendt Knudsen and Sándor Fazekas. Robust algorithm for random resistor networks using hierarchical domain structure. *Journal of Computational Physics*, 211(2):700–718, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002937>.

Kao:2004:DAE

- [KFH⁺04] Jim Kao, Dawn Flicker, Rudy Henninger, Sarah Frey, Michael Ghil, and Kayo Ide. Data assimilation with an extended Kalman filter for impact-produced shock-wave dynamics. *Journal of Computational Physics*, 196(2):705–723, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006132>.

Kao:2006:EMP

- [KFIG06] Jim Kao, Dawn Flicker, Kayo Ide, and Michael Ghil. Estimating model parameters for an impact-produced shock-wave simulation: Optimal use of partial data with the extended Kalman filter. *Journal of Computational Physics*, 214(2):725–737, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004705>. ■

Kleefsman:2005:VFB

- [KFV⁺05] K. M. T. Kleefsman, G. Fekken, A. E. P. Veldman, B. Iwanowski, and B. Buchner. A volume-of-fluid based simulation method for wave impact problems. *Journal of Computational Physics*, 206(1):363–393, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005170>.

Kim:2007:AAC

- [KfV07] H. C. Kim, Y. Feng, and J. P. Verboncoeur. Algorithms for accurate collection, ejection, and loading in particle simulations. *Journal of Computational Physics*, 223(2):629–642, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004657>.

Krauskopf:2003:CUM

- [KG03] Bernd Krauskopf and Kirk Green. Computing unstable manifolds of periodic orbits in delay differential equations. *Journal of Computational Physics*, 186(1):230–249, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000500>.

Karniadakis:2006:UQS

- [KG06] George Em Karniadakis and James Glimm. Uncertainty quantification in simulation science. *Journal of Computational Physics*, 217(1):1–4, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002841>.

Kennedy:2008:RAF

- [KG08] Christopher A. Kennedy and Andrea Gruber. Reduced aliasing formulations of the convective terms within the Navier–Stokes equations for a compressible fluid. *Journal of Computational Physics*, 227(3):1676–1700, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004251>.

Karabasov:2009:CAB

- [KG09] S. A. Karabasov and V. M. Goloviznin. Compact Accurately Boundary-Adjusting high-REsolution Technique [CABARET] for fluid dynamics. *Journal of Computational Physics*, 228(19):7426–7451, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003684>.

Kim:2005:GAB

- [KGJ05] Kwiseon Kim, Peter A. Graf, and Wesley B. Jones. A genetic algorithm based inverse band structure method for semiconductor alloys. *Journal of Computational Physics*, 208(2):735–760, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001282>.

Kim:2007:DNS

- [KH07] See Jo Kim and Wook Ryol Hwang. Direct numerical simulations of droplet emulsions in sliding bi-periodic frames using the level-set method. *Journal of Computational Physics*, 225(1):615–634, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006115>.

Kudriakov:2008:NDS

- [KH08] S. Kudriakov and W. H. Hui. On a new defect of shock-capturing methods. *Journal of Computational Physics*, 227(3):2105–2117, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700469X>.

Kattelans:2009:CMM

- [KH09] Thorsten Kattelans and Wilhelm Heinrichs. Conservation of mass and momentum of the least-squares spectral collocation scheme for the Stokes problem. *Journal of Computational Physics*, 228(13):4649–4664, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001168>.

Kang:2008:DSM

- [KHdT⁺08] Tae Gon Kang, Martien A. Hulsen, Jaap M. J. den Toonder, Patrick D. Anderson, and Han E. H. Meijer. A direct simulation method for flows with suspended paramagnetic particles. *Journal of Computational Physics*, 227(9):4441–4458, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000181>.

Khenner:2004:CMI

- [Khe04] M. Khenner. Computation of the material indicator function near the contact line (in Tryggvason's method). *Journal of Computational Physics*, 200(1):1–7, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001354>.

Kristensen:2001:DIR

- [KHV01] J. H. Kristensen, G. L. Hoatson, and R. L. Vold. Design and implementation of Runge–Kutta methods for MAS NMR lineshape calculations. *Journal of Computational Physics*, 170(1):415–447, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967440>.

Kaser:2005:ASA

- [KI05] Martin Käser and Armin Iske. ADER schemes on adaptive triangular meshes for scalar conservation laws. *Journal of Computational Physics*, 205(2):486–508, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004772>.

Kang:2009:DBD

- [KIH09] Seongwon Kang, Gianluca Iaccarino, and Frank Ham. DNS of buoyancy-dominated turbulent flows on a bluff body using the immersed boundary method. *Journal of Computational Physics*, 228(9):3189–3208, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006517>.

Kang:2009:PWP

- [KIH09] Seongwon Kang, Gianluca Iaccarino, Frank Ham, and Parviz Moin. Prediction of wall-pressure fluctuation in turbulent flows with an immersed boundary method. *Journal of Computational Physics*, 228(18):6753–6772, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002915>.

Kim:2005:CST

- [Kim05] Junseok Kim. A continuous surface tension force formulation for diffuse-interface models. *Journal of Computational Physics*, 204(2):784–804, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004383>.

Kim:2007:OBC

- [Kim07] Jae Wook Kim. Optimised boundary compact finite difference schemes for computational aeroacoustics. *Journal of Computational Physics*, 225(1):995–1019, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000149>.

Kostrun:2001:ANM

- [KJ01] Marijan Kostrun and Juha Javanainen. An alternative numerical method for initial value problems involving the contact nonlinear Hamiltonians. *Journal of Computational Physics*, 172(1):298–308, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196824X>.

Katz:2009:MMC

- [KJ09a] Aaron Katz and Antony Jameson. Multicloud: Multigrid convergence with a meshless operator. *Journal of Computational Physics*, 228(14):5237–5250, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001995>.

Ketefian:2009:MEV

- [KJ09b] G. S. Ketefian and M. Z. Jacobson. A mass, energy, vorticity, and potential enstrophy conserving lateral fluid-land boundary scheme for the shallow water equations. *Journal of Computational Physics*, 228(1):1–32, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004191>.

Karamanos:2000:SVV

- [KK00a] G-S. Karamanos and G. E. Karniadakis. A spectral vanishing viscosity method for large-eddy simulations. *Journal of Computational Physics*, 163(1):22–50, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965525>.

Khabibrakhmanov:2000:SCM

- [KK00b] Ildar. K. Khabibrakhmanov and George. V. Khazanov. The spectral collocation method for the kinetic equation with the nonlinear two-dimensional Coulomb collisional operator. *Journal of Computational Physics*, 161(2):558–575, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965136>.

Knio:2000:ITT

- [KK00c] Omar M. Knio and Rupert Klein. Improved thin-tube models for slender vortex simulations. *Journal of Computational Physics*, 163(1):68–82, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965550>.

Kanaun:2003:NMS

- [KK03a] S. K. Kanaun and S. Babaii Kocheksarii. A numerical method for the solution of thermo- and electro-static problems for a medium with isolated inclusions. *Journal of Computational Physics*, 192(2):471–493, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004054>.

Kirby:2003:ANU

- [KK03b] Robert M. Kirby and George Em Karniadakis. De-aliasing on non-uniform grids: algorithms and applications. *Journal of Computational Physics*, 191(1):249–264, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003140>.

Knoll:2004:JFN

- [KK04] D. A. Knoll and D. E. Keyes. Jacobian-free Newton–Krylov methods: a survey of approaches and applications. *Journal of Computational Physics*, 193(2):357–397, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004340>.

Keen:2005:SOK

- [KK05a] Benjamin Keen and Smadar Karni. A second order kinetic scheme for gas dynamics on arbitrary grids. *Journal of Computational Physics*, 205(1):108–130, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004607>.

Kim:2005:HOA

- [KK05b] Dehee Kim and Jang Hyuk Kwon. A high-order accurate hybrid scheme using a central flux scheme and a WENO scheme for compressible flowfield analysis. *Journal of Computational Physics*, 210(2):554–583, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002512>.

Kim:2005:AEMa

- [KK05c] Kyu Hong Kim and Chongam Kim. Accurate, efficient and monotonic numerical methods for multi-dimensional compressible flows: Part I: Spatial discretization. *Journal of Computational Physics*, 208(2):527–569, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001208>.

Kim:2005:AEMb

- [KK05d] Kyu Hong Kim and Chongam Kim. Accurate, efficient and monotonic numerical methods for multi-dimensional compressible flows: Part II: Multi-dimensional limiting process. *Journal of Computational Physics*, 208(2):570–615, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500121X>.

Kim:2007:ERI

- [KK07] Joo Sung Kim and Oh Joon Kwon. An efficient and robust implicit operator for upwind point Gauss–Seidel method. *Journal of Computational Physics*, 224(2):1124–1144, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005687>.

Kallinderis:2009:PMQ

- [KK09] Y. Kallinderis and C. Kontzialis. A priori mesh quality estimation via direct relation between truncation error and mesh distortion. *Journal of Computational Physics*, 228(3):881–902, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005299>.

Kim:2001:IBF

- [KKC01] Jungwoo Kim, Dongjoo Kim, and Haecheon Choi. An immersed-boundary finite-volume method for simulations of flow in complex geometries. *Journal of Computational Physics*, 171(1):132–150, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967786>.

Khoromskij:2009:TDE

- [KKCF09] B. N. Khoromskij, V. Khoromskaia, S. R. Chinnamsetty, and H.-J. Flad. Tensor decomposition in electronic structure calculations on 3D Cartesian grids. *Journal of Computational Physics*, 228(16):5749–5762, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002356>.

Kia:2008:FEF

- [KKD08] Amirali Kia, Daejoong Kim, and Eric Darve. Fast electrostatic force calculation on parallel computer clusters. *Journal of Computational Physics*, 227(19):8551–8567, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800329X>.

Kuprat:2001:VCS

- [KKGL01] Andrew Kuprat, Ahmed Khamayseh, Denise George, and Levi Larkey. Volume conserving smoothing for piecewise linear curves, surfaces, and triple lines. *Journal of Computational Physics*, 172(1):99–118, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968160>.

Kim:2004:CMM

- [KKL04] Junseok Kim, Kyungkeun Kang, and John Lowengrub. Conservative multigrid methods for Cahn–Hilliard fluids. *Journal of Computational Physics*, 193(2):511–543, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003966>.

Kadioglu:2008:FOA

- [KKM08] Samet Y. Kadioğlu, Rupert Klein, and Michael L. Minion. A fourth-order auxiliary variable projection method for zero-Mach number gas dynamics. *Journal of Computational Physics*, 227(3):2012–2043, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004445>.

Kozlov:2004:BLE

- [KKO04] Roman Kozlov, Anne Kværnø, and Brynjulf Owren. The behaviour of the local error in splitting methods applied to stiff problems. *Journal of Computational Physics*, 195(2):576–593, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005734>.

Karni:2002:SIA

- [KKP02] Smadar Karni, Alexander Kurganov, and Guergana Petrova. A smoothness indicator for adaptive algorithms for hyperbolic systems. *Journal of Computational Physics*, 178(2):323–341, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970245>.

Kim:2001:MACa

- [KKR01a] Kyu Hong Kim, Chongam Kim, and Oh-Hyun Rho. Methods for the accurate computations of hypersonic flows: I. AUSMPW+ scheme. *Journal of Computational Physics*, 174(1):38–80, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968731>.

Kim:2001:MACb

- [KKR01b] Kyu Hong Kim, Chongam Kim, and Oh-Hyun Rho. Methods for the accurate computations of hypersonic flows: II. Shock-aligned grid technique. *Journal of Computational Physics*, 174(1):81–119, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968962>.

Kameyama:2005:MIA

- [KKS05] Masanori Kameyama, Akira Kageyama, and Tetsuya Sato. Multigrid iterative algorithm using pseudo-compressibility for three-dimensional mantle convection with strongly variable viscosity. *Journal of Computational Physics*, 206(1):162–181, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005066>.

Kramer:2007:CAM

- [KKS07] Peter R. Kramer, Orazgeldi Kurbanmuradov, and Karl Sabelfeld. Comparative analysis of multiscale Gaussian random field simulation algorithms. *Journal of Computational Physics*, 226(1):897–924, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002148>.

Kirshman:2004:GBC

- [KL04] D. J. Kirshman and F. Liu. A gridless boundary condition method for the solution of the Euler equations on embedded Cartesian meshes with multigrid. *Journal of Computational Physics*, 201(1):119–147, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002049>.

Klose:2006:LTB

- [KL06] Alexander D. Klose and Edward W. Larsen. Light transport in biological tissue based on the simplified spherical harmonics equations. *Journal of Computational Physics*, 220(1):441–470, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003421>.

Kawai:2008:LAD

- [KL08] S. Kawai and S. K. Lele. Localized artificial diffusivity scheme for discontinuity capturing on curvilinear meshes. *Journal of Computational Physics*, 227(22):9498–9526, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003641>.

Kim:2008:WEH

- [CLK08] Sungtae Kim, Soogab Lee, and Kyu Hong Kim. Wavenumber-extended high-order oscillation control finite volume schemes for multi-dimensional aeroacoustic computations. *Journal of Computational Physics*, 227(8):4089–4122, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005657>.

Kim:2009:RHR

- [KLLJ09] Sung Don Kim, Bok Jik Lee, Hyoung Jin Lee, and In-Seuck Jeung. Robust HLLC Riemann solver with weighted average flux scheme for strong shock. *Journal of Computational Physics*, 228(20):7634–7642, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003842>.

Kroger:2005:EGS

- [KLM05] Tim Kröger and Mária Lukáčová-Medvid’ová. An evolution Galerkin scheme for the shallow water magnetohydrodynamic equations in two space dimensions. *Journal of Computational Physics*, 206(1):122–149, June 10, 2005. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005042>.

Knoll:2007:NAT

- [KLM07] D. A. Knoll, R. B. Lowrie, and J. E. Morel. Numerical analysis of time integration errors for nonequilibrium radiation diffusion. *Journal of Computational Physics*, 226(2):1332–1347, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002367>.

Karlsen:2001:OSM

- [KLN⁺01] K. Hvistendahl Karlsen, K.-A. Lie, J. R. Natvig, H. F. Nordhaug, and H. K. Dahle. Operator splitting methods for systems of convection-diffusion equations: Nonlinear error mechanisms and correction strategies. *Journal of Computational Physics*, 173(2):636–663, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969013>.

Kwon:2009:ETD

- [KLP⁺09] Sungjin Kwon, Youngmin Lee, Jong Youn Park, Dongwoo Sohn, Jae Hyuk Lim, and Seyoung Im. An efficient three-dimensional adaptive quasicontinuum method using variable-node elements. *Journal of Computational Physics*, 228(13):4789–4810, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900165X>.

Kuo:2009:MET

- [KLSW09] Yueh-Cheng Kuo, Wen-Wei Lin, Shih-Feng Shieh, and Weichung Wang. A minimal energy tracking method for non-radially symmetric solutions of coupled nonlinear Schrödinger equations. *Journal of Computational Physics*, 228(21):7941–7956, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003921>.

Koren:2002:RPL

- [KLvBvL02] B. Koren, M. R. Lewis, E. H. van Brummelen, and B. van Leer. Riemann-problem and level-set approaches for homeotropic two-fluid flow computations. *Journal of Computational Physics*, 181(2):654–674, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971500>.

Kube:2009:MCS

- [KLW09] Susanna Kube, Caroline Lasser, and Marcus Weber. Monte Carlo sampling of Wigner functions and surface hopping quantum dynamics. *Journal of Computational Physics*, 228(6):1947–1962, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006104>.

Knoll:2000:NKM

- [KM00] D. A. Knoll and V. A. Mousseau. On Newton–Krylov multi-grid methods for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 163(1):262–267, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965616>.

Kloucek:2002:CMB

- [KM02] Petr Kloucek and Luis A. Melara. The computational modelling of branching fine structures in constrained crystals. *Journal of Computational Physics*, 183(2):623–651, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972050>.

Kim:2003:RTC

- [KM03] Arnold D. Kim and Miguel Moscoso. Radiative transfer computations for optical beams. *Journal of Computational Physics*, 185(1):50–60, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000475>.

Kemenov:2006:ESS

- [KM06] K. A. Kemenov and S. Menon. Explicit small-scale velocity simulation for high-Re turbulent flows. *Journal of Computational Physics*, 220(1):290–311, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002324>.

Mao:2007:TFT

- [kM07a] De kang Mao. Towards front-tracking based on conservation in two space dimensions II, tracking discontinuities in capturing fashion. *Journal of Computational Physics*, 226(2):1550–1588, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002495>.

Kemenov:2007:ESS

- [KM07b] K. A. Kemenov and S. Menon. Explicit small-scale velocity simulation for high-Re turbulent flows. Part II: Non-homogeneous flows. *Journal of Computational Physics*, 222(2):673–701, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003731>.

Kajtar:2008:SSS

- [KM08a] J. Kajtar and J. J. Monaghan. SPH simulations of swimming linked bodies. *Journal of Computational Physics*, 227(19):8568–8587, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003306>.

Keaveny:2008:MMI

- [KM08b] Eric E. Keaveny and Martin R. Maxey. Modeling the magnetic interactions between paramagnetic beads in magnetorheological fluids. *Journal of Computational Physics*, 227(22):9554–9571, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003677>.

Kim:2001:HSS

- [KMA⁺01] J.-H. R. Kim, H. Maurer, Yu. A. Astrov, M. Bode, and H.-G. Purwins. High-speed switch-on of a semiconductor gas discharge image converter using optimal control methods. *Journal of Computational Physics*, 170(1):395–414, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967415>.

Kostelec:2000:CHA

- [KMR00] Peter J. Kostelec, David K. Maslen, Dennis M. Healy, Jr., and Daniel N. Rockmore. Computational harmonic analysis for tensor fields on the two-sphere. *Journal of Computational Physics*, 162(2):514–535, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965513>.

Kalitzin:2005:NWB

- [KMID05] Georgi Kalitzin, Gorazd Medic, Gianluca Iaccarino, and Paul Durbin. Near-wall behavior of RANS turbulence models and implications for wall functions. *Journal of Computational Physics*, 204(1):265–291, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004164>.

Kwok:2001:CER

- [KMJ01] Wai Yip Kwok, Robert D. Moser, and Javier Jiménez. A critical evaluation of the resolution properties of B-spline and compact finite difference methods. *Journal of Computational Physics*, 174(2):510–551, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969190>.

Knupp:2002:RJO

- [KMS02] Patrick Knupp, Len G. Margolin, and Mikhail Shashkov. Reference Jacobian optimization-based rezone strategies for arbitrary Lagrangian Eulerian methods. *Journal of Computational Physics*, 176(1):93–128, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969694>.

Karlin:2003:HAP

- [KMS03] V. Karlin, V. Maz'ya, and G. Schmidt. High accuracy periodic solutions to the Sivashinsky equation. *Journal of Computational Physics*, 188(1):209–231, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001645>.

Knudsen:2004:NSM

- [KMS04] K. Knudsen, J. Mueller, and S. Siltanen. Numerical solution method for the dbar-equation in the plane. *Journal of Computational Physics*, 198(2):500–517, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400049X>.

Kaufmann:2008:CBL

- [KMSH08] A. Kaufmann, M. Moreau, O. Simonin, and J. Helie. Comparison between Lagrangian and mesoscopic Eulerian modelling approaches for inertial particles suspended in decaying isotropic turbulence. *Journal of Computational Physics*, 227(13):6448–6472, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001411>.

Katsoulakis:2003:CGS

- [KMOV03] Markos A. Katsoulakis, Andrew J. Majda, and Dionisios G. Vlachos. Coarse-grained stochastic processes and Monte Carlo simulations in lattice systems. *Journal of Computational Physics*, 186(1):250–278, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000512>.

Kumano:2004:CNS

- [KN04] S. Kumano and T.-H. Nagai. Comparison of numerical solutions for Q^2 evolution equations. *Journal of Computational Physics*, 201(2):651–664, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002591>.

Kamenkovich:2009:TSS

- [KN09] V. M. Kamenkovich and D. A. Nechaev. On the time-splitting scheme used in the Princeton Ocean Model. *Journal of Computational Physics*, 228(8):2874–2905, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000059>.

Klose:2005:ISP

- [KNH05] Alexander D. Klose, Vasilis Ntziachristos, and Andreas H. Hielscher. The inverse source problem based on the radiative transfer equation in optical molecular imaging. *Journal of Computational Physics*, 202(1):323–345, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002888>.

Kok:2009:HOL

- [Kok09] J. C. Kok. A high-order low-dispersion symmetry-preserving finite-volume method for compressible flow on curvilinear grids. *Journal of Computational Physics*, 228(18):6811–6832, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003234>.

Kao:2004:LFS

- [KOQ04] Chiu Yen Kao, Stanley Osher, and Jianliang Qian. Lax–Friedrichs sweeping scheme for static Hamilton–Jacobi equations. *Journal of Computational Physics*, 196(1):367–391, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006016>.

Kao:2008:LTB

- [KOQ08] Chiu-Yen Kao, Stanley Osher, and Jianliang Qian. Legendre-transform-based fast sweeping methods for static Hamilton–Jacobi equations on triangulated meshes. *Journal of Computational Physics*, 227(24):10209–10225, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800452X>.

Koutsourelakis:2007:SUS

- [Kou07] P. S. Koutsourelakis. Stochastic upscaling in solid mechanics: An exercise in machine learning. *Journal of Computational Physics*, 226(1):301–325, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001581>.

Koumoutsakos:2008:P

- [Kou08] Petros Koumoutsakos. Preface. *Journal of Computational Physics*, 227(21):9005, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003586>.

Koutsourelakis:2009:MRN

- [Kou09] P. S. Koutsourelakis. A multi-resolution, non-parametric, Bayesian framework for identification of spatially-varying model parameters. *Journal of Computational Physics*, 228(17):6184–6211, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002708>.

Kim:2000:MPT

- [KP00] Charlson C. Kim and Scott E. Parker. Massively parallel three-dimensional toroidal gyrokinetic flux-tube turbulence simulation. *Journal of Computational Physics*, 161(2):589–604, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965185>.

Kelley:2004:FSO

- [KP04] C. T. Kelley and B. Montgomery Pettitt. A fast solver for the Ornstein–Zernike equations. *Journal of Computational Physics*, 197(2):491–501, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300648X>.

Kurzak:2005:COF

- [KP05] Jakub Kurzak and B. Montgomery Pettitt. Communications overlapping in fast multipole particle dynamics methods. *Journal of Computational Physics*, 203(2):731–743, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004024>.

Kamga:2007:NZM

- [KP07] Jean-Baptiste Apoung Kamga and Olivier Pironneau. Numerical zoom for multiscale problems with an application to nuclear waste disposal. *Journal of Computational Physics*, 224(1):403–413, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001337>.

Kopitz:2008:CBA

- [KP08] J. Kopitz and W. Polifke. CFD-based application of the Nyquist criterion to thermo-acoustic instabilities. *Journal of Computational Physics*, 227(14):6754–6778, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001733>.

Kim:2008:AHO

- [KPB08] Seung Hyun Kim, Heinz Pitsch, and Iain D. Boyd. Accuracy of higher-order lattice Boltzmann methods for microscale flows with finite Knudsen numbers. *Journal of Computational Physics*, 227(19):8655–8671, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003355>.

Kissmann:2009:CCS

- [KPK09] R. Kissmann, J. Pomoell, and W. Kley. A central conservative scheme for general rectangular grids. *Journal of Computational Physics*, 228(6):2119–2131, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006207>.

Kramer:2007:CES

- [KPP07] R. M. J. Kramer, C. Pantano, and D. I. Pullin. A class of energy stable, high-order finite-difference interface schemes suitable for adaptive mesh refinement of hyperbolic problems. *Journal of Computational Physics*, 226(2):1458–1484, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002434>.

Kramer:2009:NES

- [KPP09] R. M. J. Kramer, C. Pantano, and D. I. Pullin. Nondissipative and energy-stable high-order finite-difference interface schemes for 2-D patch-refined grids. *Journal of Computational Physics*, 228(14):5280–5297, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002022>.

Kunik:2003:KSU

- [KQW03a] Matthias Kunik, Shamsul Qamar, and Gerald Warnecke. Kinetic schemes for the ultra-relativistic Euler equations. *Journal of Computational Physics*, 187(2):572–596, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001256>.

Kunik:2003:SOA

- [KQW03b] Matthias Kunik, Shamsul Qamar, and Gerald Warnecke. Second-order accurate kinetic schemes for the ultra-relativistic Euler equations. *Journal of Computational Physics*, 192(2):695–726, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004157>.

Karlsen:2002:USM

- [KR02] Kenneth Hvistendahl Karlsen and Nils Henrik Risebro. Unconditionally stable methods for Hamilton–Jacobi equations. *Journal of Computational Physics*, 180(2):710–735, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971135>.

Kalita:2009:TFH

- [KR09a] Jiten C. Kalita and Rajendra K. Ray. A transformation-free HOC scheme for incompressible viscous flows past an impulsively started circular cylinder. *Journal of Computational Physics*, 228(14):5207–5236, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001983>.

Kolev:2009:TAV

- [KR09b] Tz. V. Kolev and R. N. Rieben. A tensor artificial viscosity using a finite element approach. *Journal of Computational Physics*, 228(22):8336–8366, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004446>.

Kurkcu:2009:SEE

- [KR09c] Harun Kurkcu and Fernando Reitich. Stable and efficient evaluation of periodized Green's functions for the Helmholtz equation at high frequencies. *Journal of Computational Physics*, 228(1):75–95, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004531>.

Krivodonova:2007:LHO

- [Kri07] Lilia Krivodonova. Limiters for high-order discontinuous Galerkin methods. *Journal of Computational Physics*, 226(1):879–896, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002136>.

Kropinski:2001:ENM

- [Kro01] M. C. A. Kropinski. An efficient numerical method for studying interfacial motion in two-dimensional creeping flows. *Journal of Computational Physics*, 171(2):479–508, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967877>.

Kropinski:2002:NMM

- [Kro02] M. C. A. Kropinski. Numerical methods for multiple inviscid interfaces in creeping flows. *Journal of Computational Physics*, 180(1):1–24, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969530>.

Krogstad:2005:GIF

- [Kro05] S. Krogstad. Generalized integrating factor methods for stiff PDEs. *Journal of Computational Physics*, 203(1):72–88, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003183>.

Kitsios:2009:BSA

- [KRT⁺09] Vassili Kitsios, Daniel Rodríguez, Vassilis Theofilis, Andrew Ooi, and Julio Soria. BiGlobal stability analysis in curvilinear coordinates of massively separated lifting bodies. *Journal of Computational Physics*, 228(19):7181–7196, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003349>.

Kryzhniy:2004:HRE

- [Kry04] V. V. Kryzhniy. High-resolution exponential analysis via regularized numerical inversion of Laplace transforms. *Journal of Computational Physics*, 199(2):618–630, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000981>.

Kaipio:2002:EAI

- [KS02a] Jari P. Kaipio and Erkki Somersalo. Estimating anomalies from indirect observations. *Journal of Computational Physics*, 181(2):398–406, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971093>.

Kang:2002:EML

- [KS02b] Sang-Yoon Kang and Ashok S. Sangani. An efficient method for large-scale simulations of bubbly liquids. *Journal of Com-*

putational Physics, 179(1):330–345, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970658>.

Kwan:2007:EDP

- [KS07] Yuen-Yick Kwan and Jie Shen. An efficient direct parallel spectral-element solver for separable elliptic problems. *Journal of Computational Physics*, 225(2):1721–1735, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000824>.

Kadioglu:2008:AST

- [KS08a] Samet Y. Kadioglu and Mark Sussman. Adaptive solution techniques for simulating underwater explosions and implosions. *Journal of Computational Physics*, 227(3):2083–2104, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004652>.

Kong:2008:NPG

- [KS08b] Rong Kong and Jerome Spanier. A new proof of geometric convergence for general transport problems based on sequential correlated sampling methods. *Journal of Computational Physics*, 227(23):9762–9777, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004051>.

Kolomenskiy:2009:FSM

- [KS09] Dmitry Kolomenskiy and Kai Schneider. A Fourier spectral method for the Navier–Stokes equations with volume penalization for moving solid obstacles. *Journal of Computational Physics*, 228(16):5687–5709, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002149>.

Kwatra:2009:MAA

- [KSGF09] Nipun Kwatra, Jonathan Su, Jón T. Grétarsson, and Ronald Fedkiw. A method for avoiding the acoustic time step

restriction in compressible flow. *Journal of Computational Physics*, 228(11):4146–4161, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000977>.

Karle:2006:NSN

- [KSH⁺06] Ch. Karle, J. Schweitzer, M. Hochbruck, E. W. Laedke, and K. H. Spatschek. Numerical solution of nonlinear wave equations in stratified dispersive media. *Journal of Computational Physics*, 216(1):138–152, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005462>.

Karle:2008:PIT

- [KSHS08] Ch. Karle, J. Schweitzer, M. Hochbruck, and K. H. Spatschek. A parallel implementation of a two-dimensional fluid laser-plasma integrator for stratified plasma-vacuum systems. *Journal of Computational Physics*, 227(16):7701–7719, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002581>.

Klein:2003:DFB

- [KSJ03] M. Klein, A. Sadiki, and J. Janicka. A digital filter based generation of inflow data for spatially developing direct numerical or large eddy simulations. *Journal of Computational Physics*, 186(2):652–665, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000901>.

Kadioglu:2005:SOP

- [KSO⁺05] Samet Y. Kadioglu, Mark Sussman, Stanley Osher, Joseph P. Wright, and Myungjoo Kang. A second order primitive preconditioner for solving all speed multi-phase flows. *Journal of Computational Physics*, 209(2):477–503, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001798>.

Kuzmin:2009:CFE

- [KSS09] D. Kuzmin, M. J. Shashkov, and D. Svyatskiy. A constrained finite element method satisfying the discrete maximum principle for anisotropic diffusion problems. *Journal of Computational Physics*, 228(9):3448–3463, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000552>.

Kucharik:2003:ELB

- [KSW03] Milan Kucharik, Mikhail Shashkov, and Burton Wendroff. An efficient linearity-and-bound-preserving remapping method. *Journal of Computational Physics*, 188(2):462–471, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001876>.

Klingenberg:2007:NCR

- [KSW07] Christian Klingenberg, Wolfram Schmidt, and Knut Waagan. Numerical comparison of Riemann solvers for astrophysical hydrodynamics. *Journal of Computational Physics*, 227(1):12–35, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003063>.

Kurganov:2000:NHRa

- [KT00a] Alexander Kurganov and Eitan Tadmor. New high-resolution central schemes for nonlinear conservation laws and convection-diffusion equations. *Journal of Computational Physics*, 160(1):241–282, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964593>.

Kurganov:2000:NHRb

- [KT00b] Alexander Kurganov and Eitan Tadmor. New high-resolution semi-discrete central schemes for Hamilton–Jacobi equations. *Journal of Computational Physics*, 160(2):720–742, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964854>.

Kuzmin:2002:FCT

- [KT02] D. Kuzmin and S. Turek. Flux correction tools for finite elements. *Journal of Computational Physics*, 175(2):525–558, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969554>.

Kondaxakis:2003:WLC

- [KT03] Dimitris Kondaxakis and Sokrates Tsangaris. A weak Legendre collocation spectral method for the solution of the incompressible Navier–Stokes equations in unstructured quadrilateral subdomains. *Journal of Computational Physics*, 192(1):124–156, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003504>.

Kuzmin:2004:HRF

- [KT04] D. Kuzmin and S. Turek. High-resolution FEM–TVD schemes based on a fully multidimensional flux limiter. *Journal of Computational Physics*, 198(1):131–158, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000221>.

Kondaxakis:2005:PSL

- [KT05] D. Kondaxakis and S. Tsangaris. Pseudospectral solution of linear evolution equations of second order in space and time on unstructured quadrilateral subdomain topologies. *Journal of Computational Physics*, 202(2):533–576, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S00219991040002979>.

Kashdan:2006:HOA

- [KT06] Eugene Kashdan and Eli Turkel. High-order accurate modeling of electromagnetic wave propagation across media — grid conforming bodies. *Journal of Computational Physics*, 218(2):816–835, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001343>.

Kwok:2007:PBR

- [KT07] Felix Kwok and Hamdi Tchelepi. Potential-based reduced Newton algorithm for nonlinear multiphase flow in porous media. *Journal of Computational Physics*, 227(1):706–727, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003543>.

Khan:2003:CSM

- [KTD03] M. A. H. Khan, Y. Tourigny, and P. G. Drazin. A case study of methods of series summation: Kelvin–Helmholtz instability of finite amplitude. *Journal of Computational Physics*, 187(1):212–229, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000962>.

Kulikovsky:2001:SAS

- [Kul01] A. A. Kulikovsky. Simple and accurate scheme for nonlinear convection-diffusion equation. *Journal of Computational Physics*, 173(2):716–729, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969098>.

Kumar:2004:IFD

- [Kum04a] Anand Kumar. Isotropic finite-differences. *Journal of Computational Physics*, 201(1):109–118, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002037>.

Kummel:2004:DGI

- [Küm04b] Stephan Kümmel. Damped gradient iteration and multigrid relaxation: tools for electronic structure calculations using orbital density-functionals. *Journal of Computational Physics*, 201(1):333–343, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002323>.

Kuzmin:2006:DGP

- [Kuz06] D. Kuzmin. On the design of general-purpose flux limiters for finite element schemes. I. Scalar convection. *Journal of Computational Physics*, 219(2):513–531, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001902>.

Kuzmin:2009:EIF

- [Kuz09] Dmitri Kuzmin. Explicit and implicit FEM–FCT algorithms with flux linearization. *Journal of Computational Physics*, 228(7):2517–2534, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006475>.

Klaij:2006:PTS

- [KvdVvdV06a] C. M. Klaij, J. J. W. van der Vegt, and H. van der Ven. Pseudo-time stepping methods for space–time discontinuous Galerkin discretizations of the compressible Navier–Stokes equations. *Journal of Computational Physics*, 219(2):622–643, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001951>.

Klaij:2006:STD

- [KvdVvdV06b] C. M. Klaij, J. J. W. van der Vegt, and H. van der Ven. Space–time discontinuous Galerkin method for the compressible Navier–Stokes equations. *Journal of Computational Physics*, 217(2):589–611, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000246>.

Klaij:2007:MST

- [KvRvdVvdV07] C. M. Klaij, M. H. van Raalte, H. van der Ven, and J. J. W. van der Vegt. h -multigrid for space–time discontinuous Galerkin discretizations of the compressible Navier–Stokes equations. *Journal of Computational Physics*, 227(2):1024–1045, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003762>.

Kraft:2003:ISA

- [KW03] Markus Kraft and Wolfgang Wagner. An improved stochastic algorithm for temperature-dependent homogeneous gas phase reactions. *Journal of Computational Physics*, 185(1):139–157, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000517>.

Kay:2006:MFE

- [KW06] David Kay and Richard Welford. A multigrid finite element solver for the Cahn–Hilliard equation. *Journal of Computational Physics*, 212(1):288–304, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003219>.

Kang:2008:PNS

- [KW08a] Daekyoung Kang and E. Won. Precise numerical solutions of potential problems using the Crank–Nicolson method. *Journal of Computational Physics*, 227(5):2970–2976, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005244>.

Katz:2008:SDS

- [KW08b] Richard F. Katz and M. Grae Worster. Simulation of directional solidification, thermochemical convection, and chimney formation in a Hele–Shaw cell. *Journal of Computational Physics*, 227(23):9823–9840, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004099>.

Klockner:2009:NDG

- [KWBH09] A. Klöckner, T. Warburton, J. Bridge, and J. S. Hesthaven. Nodal discontinuous Galerkin methods on graphics processors. *Journal of Computational Physics*, 228(21):7863–7882, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003647>.

Kubatko:2007:SDD

- [KWD07] Ethan J. Kubatko, Joannes J. Westerink, and Clint Dawson. Semi discrete discontinuous Galerkin methods and stage-exceeding-order, strong-stability-preserving Runge-Kutta time discretizations. *Journal of Computational Physics*, 222(2):832–848, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003974>.

Kwok:2008:HBE

- [Kwo08] Dixon T. K. Kwok. A hybrid Boltzmann electrons and PIC ions model for simulating transient state of partially ionized plasma. *Journal of Computational Physics*, 227(11):5758–5777, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001113>.

Kao:2008:ICM

- [KY08] P.-H. Kao and R.-J. Yang. An investigation into curved and moving boundary treatments in the lattice Boltzmann method. *Journal of Computational Physics*, 227(11):5671–5690, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001058>.

Kirby:2007:TSC

- [KYK07] Robert M. Kirby, Zohar Yosibash, and George Em Karniadakis. Towards stable coupling methods for high-order discretization of fluid-structure interaction: Algorithms and observations. *Journal of Computational Physics*, 223(2):489–518, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004499>.

Kim:2007:EMA

- [KYL07] Do Wan Kim, Young-Cheol Yoon, Wing Kam Liu, and Ted Belytschko. Extrinsic meshfree approximation using asymptotic expansion for interfacial discontinuity of derivative. *Journal of Computational Physics*, 221(1):370–394, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002956>.

Karaa:2004:HOA

- [KZ04] Samir Karaa and Jun Zhang. High order ADI method for solving unsteady convection-diffusion problems. *Journal of Computational Physics*, 198(1):1–9, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400018X>.

Klein:2006:CAC

- [KZ06] P. A. Klein and J. A. Zimmerman. Coupled atomistic-continuum simulations using arbitrary overlapping domains. *Journal of Computational Physics*, 213(1):86–116, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003608>.

Ke:2009:IKV

- [KZWY09] Peng Ke, Shuguang Zhang, Jianghao Wu, and Chunxin Yang. An improved known vicinity algorithm based on geometry test for particle localization in arbitrary grid. *Journal of Computational Physics*, 228(24):9001–9019, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004884>.

Labrosse:2009:PLF

- [Lab09] G. Labrosse. The piecewise-linear Finite Volume scheme: The best known lowest-order preconditioner for the d^2/dx^2 Chebyshev spectral operator. *Journal of Computational Physics*, 228(12):4491–4509, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001405>.

Lai:2002:SCF

- [Lai02] Ming-Chih Lai. A simple compact fourth-order Poisson solver on polar geometry. *Journal of Computational Physics*, 182(1):337–345, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297172X>.

Li:2008:CEI

- [LAKD08] S. Li, S. Ahmed, G. Klimeck, and E. Darve. Computing entries of the inverse of a sparse matrix using the FIND algorithm. *Journal of Computational Physics*, 227(22):9408–9427, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003458>.

Lapenta:2002:PRM

- [Lap02] Giovanni Lapenta. Particle rezoning for multidimensional kinetic particle-in-cell simulations. *Journal of Computational Physics*, 181(1):317–337, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971263>.

Lappa:2003:AKB

- [Lap03] Marcello Lappa. An “attachment kinetics-based” volume of fraction method for organic crystallization: a fluid-dynamic approach to macromolecular-crystal engineering. *Journal of Computational Physics*, 191(1):97–129, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003073>.

Lapenta:2004:VGA

- [Lap04] Giovanni Lapenta. Variational grid adaptation based on the minimization of local truncation error: time-independent problems. *Journal of Computational Physics*, 193(1):159–179, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300425X>.

Laprise:2008:RCM

- [Lap08] René Laprise. Regional climate modelling. *Journal of Computational Physics*, 227(7):3641–3666, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005407>.

Larson:2003:CCM

- [Lar03] David J. Larson. A Coulomb collision model for PIC plasma simulation. *Journal of Computational Physics*, 188(1):123–138, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001578>.

Larroche:2007:EEN

- [Lar07] O. Larroche. An efficient explicit numerical scheme for diffusion-type equations with a highly inhomogeneous and highly anisotropic diffusion tensor. *Journal of Computational Physics*, 223(1):436–450, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004475>.

Larsson:2009:BTC

- [Lar09] Johan Larsson. Blending technique for compressible inflow turbulence: Algorithm localization and accuracy assessment. *Journal of Computational Physics*, 228(4):933–937, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005597>.

Lott:2001:QWE

- [LAS01] Dawn A. Lott, Stuart S. Antman, and William G. Szymczak. The quasilinear wave equation for antiplane shearing of nonlinearly elastic bodies. *Journal of Computational Physics*, 171(1):201–226, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196783X>.

Lau:2004:RER

- [Lau04] Stephen R. Lau. Rapid evaluation of radiation boundary kernels for time-domain wave propagation on black-holes: theory and numerical methods. *Journal of Computational Physics*, 199(1):376–422, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002086>.

Laurenzi:2006:EGA

- [Lau06] Ian J. Laurenzi. Erratum to “A general algorithm for exact simulation of multicomponent aggregation processes” [J. Comput. Phys. **177** (2002) 418–449]. *Journal of Computational Physics*, 217(2):866–867, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001306>. See [LBD02].

Layton:2002:CSC

- [Lay02] Anita T. Layton. Cubic spline collocation method for the shallow water equations on the sphere. *Journal of Computational Physics*, 179(2):578–592, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970750>.

Leung:2003:CMO

- [LB03a] C. H. Leung and M. Berzins. A computational model for organism growth based on surface mesh generation. *Journal of Computational Physics*, 188(1):75–99, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001530>.

Lucia:2003:PMR

- [LB03b] David J. Lucia and Philip S. Beran. Projection methods for reduced order models of compressible flows. *Journal of Computational Physics*, 188(1):252–280, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001669>.

Luo:2004:CFN

- [LB04] Haoxiang Luo and Thomas R. Bewley. On the contravariant form of the Navier–Stokes equations in time-dependent curvilinear coordinate systems. *Journal of Computational Physics*, 199(1):355–375, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000889>.

Laurenzi:2002:GAE

- [LBD02] Ian J. Laurenzi, John D. Bartels, and Scott L. Diamond. A general algorithm for exact simulation of multicomponent aggregation processes. *Journal of Computational Physics*, 177(2):418–449, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970178>. See erratum [Lau06].

Luo:2004:CMM

- [LBL04] Hong Luo, Joseph D. Baum, and Rainald Löhner. On the computation of multi-material flows using ALE formulation. *Journal of Computational Physics*, 194(1):304–328, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004844>.

Luo:2006:HCG

- [LBL06a] Hong Luo, Joseph D. Baum, and Rainald Löhner. A hybrid Cartesian grid and gridless method for compressible flows. *Journal of Computational Physics*, 214(2):618–632, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004651>.

Luo:2006:MDG

- [LBL06b] Hong Luo, Joseph D. Baum, and Rainald Löhner. A p -multigrid discontinuous Galerkin method for the Euler equations on unstructured grids. *Journal of Computational Physics*, 211(2):767–783, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003128>.

Luo:2007:HWB

- [LBL07] Hong Luo, Joseph D. Baum, and Rainald Löhner. A Hermite WENO-based limiter for discontinuous Galerkin method on unstructured grids. *Journal of Computational Physics*, 225(1):686–713, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006164>.

Luo:2008:DGM

- [LBL08] Hong Luo, Joseph D. Baum, and Rainald Löhner. A discontinuous Galerkin method based on a Taylor basis for the compressible flows on arbitrary grids. *Journal of Computational Physics*, 227(20):8875–8893, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003604>.

Liang:2004:FMR

- [LBS⁺04] WanZhen Liang, Roi Baer, Chandra Saravanan, Yihan Shao, Alexis T. Bell, and Martin Head-Gordon. Fast methods for resumming matrix polynomials and Chebyshev matrix polynomials. *Journal of Computational Physics*, 194(2):575–587, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004959>.

Lanser:2000:SDS

- [LBV00] D. Lanser, J. G. Blom, and J. G. Verwer. Spatial discretization of the shallow water equations in spherical geometry using Osher’s scheme. *Journal of Computational Physics*, 165(2):542–565, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966324>.

Lanser:2001:TIS

- [LBV01] D. Lanser, J. G. Blom, and J. G. Verwer. Time integration of the shallow water equations in spherical geometry. *Journal of Computational Physics*, 171(1):373–393, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968020>.

Lerat:2001:RBC

- [LC01] Alain Lerat and Christophe Corre. A residual-based compact scheme for the compressible Navier–Stokes equations. *Journal of Computational Physics*, 170(2):642–675, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967555>.

Lozinski:2003:FSF

- [LC03] Alexei Lozinski and Cédric Chauvière. A fast solver for Fokker–Planck equation applied to viscoelastic flows calculations: 2D FENE model. *Journal of Computational Physics*, 189(2):607–625, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002481>.

Lapenta:2006:CEF

- [LC06a] Giovanni Lapenta and Luis Chacón. Cost-effectiveness of fully implicit moving mesh adaptation: a practical investigation in 1D. *Journal of Computational Physics*, 219(1):86–103, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001410>.

Loubere:2006:FWD

- [LC06b] R. Loubère and E. J. Caramana. The force/work differencing of exceptional points in the discrete, compatible formulation of Lagrangian hydrodynamics. *Journal of Computational Physics*, 216(1):1–18, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005395>.

Labrunie:2004:NSH

- [LCB04] Simon Labrunie, José A. Carrillo, and Pierre Bertrand. Numerical study on hydrodynamic and quasi-neutral approximations for collisionless two-species plasmas. *Journal of Computational Physics*, 200(1):267–298, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001676>.

Li:2009:ETF

- [LCB09] Jing-Rebecca Li, Donna Calhoun, and Lucien Brush. Efficient thermal field computation in phase-field models. *Journal of Computational Physics*, 228(24):8945–8957, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004392>.

Lyons:2005:FAS

- [LCCG05] W. Lyons, H. D. Cenicerros, S. Chandrasekaran, and M. Gu. Fast algorithms for spectral collocation with non-periodic boundary conditions. *Journal of Computational Physics*, 207(1):173–191, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000227>.

Lynch:2003:NMS

- [LCdCN⁺03] V. E. Lynch, B. A. Carreras, D. del Castillo-Negrete, K. M. Ferreira-Mejias, and H. R. Hicks. Numerical methods for the solution of partial differential equations of fractional order. *Journal of Computational Physics*, 192(2):406–421, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004005>.

Lee:2007:ESC

- [LCG07] Eunseok Lee, Wei Cai, and Giulia A. Galli. Electronic structure calculations in a uniform magnetic field using periodic supercells. *Journal of Computational Physics*, 226(2):1310–1331, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002355>.

Li:2003:SMB

- [LCH03] Baoyan Li, Zhangxin Chen, and Guanren Huan. The sequential method for the black-oil reservoir simulation on unstructured grids. *Journal of Computational Physics*, 192(1):36–72, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003462>.

Lu:2007:NVF

- [LCM07] Benzhao Lu, Xiaolin Cheng, and J. Andrew McCammon. “New-version-fast-multipole-method” accelerated electrostatic calculations in biomolecular systems. *Journal of Computational Physics*, 226(2):1348–1366, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002379>.

Liu:2007:CAS

- [LCNR07] Jin Liu, Shiyi Chen, Xiaobo Nie, and Mark O. Robbins. A continuum-atomistic simulation of heat transfer in micro- and nano-flows. *Journal of Computational Physics*, 227(1):279–291, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003324>.

Lin:2002:SCF

- [LCS02] Ching-Long Lin, Tianfeng Chai, and Juanzhen Sun. On the smoothness constraints for four-dimensional data assimilation. *Journal of Computational Physics*, 181(2):430–453, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971366>.

Liu:2009:HOC

- [LCS09] Wei Liu, Juan Cheng, and Chi-Wang Shu. High order conservative Lagrangian schemes with Lax–Wendroff type time discretization for the compressible Euler equations. *Journal of Computational Physics*, 228(23):8872–8891, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004860>.

Li:2004:FEM

- [LCW04] Xiang-Gui Li, C. K. Chan, and Song Wang. The finite element method with weighted basis functions for singularly perturbed convection-diffusion problems. *Journal of Computational Physics*, 195(2):773–789, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005825>.

Londrillo:2004:DFC

- [LD04] P. Londrillo and L. Del Zanna. On the divergence-free condition in Godunov-type schemes for ideal magnetohydrodynamics: the upwind constrained transport method. *Journal of Computational Physics*, 195(1):17–48, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005102>.

Li:2006:MRM

- [LD06] Aiqin Li and Earl H. Dowell. Modal reduction of mathematical models of biological molecules. *Journal of Computational Physics*, 211(1):262–288, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002743>.

Lee:2009:USM

- [LD09a] Dongwook Lee and Anil E. Deane. An unsplit staggered mesh scheme for multidimensional magnetohydrodynamics. *Journal of Computational Physics*, 228(4):952–975, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004506>.

Longo:2009:MCM

- [LD09b] S. Longo and P. Diomedè. A Monte Carlo model for seeded atomic flows in the transition regime. *Journal of Computational Physics*, 228(10):3851–3857, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000874>.

Lifschitz:2009:PCM

- [LDL⁺09] A. F. Lifschitz, X. Davoine, E. Lefebvre, J. Faure, C. Rechatin, and V. Malka. Particle-in-cell modelling of laser-plasma interaction using Fourier decomposition. *Journal of Computational Physics*, 228(5):1803–1814, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005950>.

Laval:2004:FNS

- [LDN04] J.-P. Laval, B. Dubrulle, and S. V. Nazarenko. Fast numerical simulations of 2D turbulence using a dynamic model for sub-filter motions. *Journal of Computational Physics*, 196(1):184–207, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300593X>.

Liao:2008:TEM

- [LDPL08] Wei Liao, Boris Diskin, Yan Peng, and Li-Shi Luo. Textbook-efficiency multigrid solver for three-dimensional unsteady compressible Navier–Stokes equations. *Journal of Computational Physics*, 227(15):7160–7177, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001757>.

Lodato:2008:TDB

- [LDV08] Guido Lodato, Pascale Domingo, and Luc Vervisch. Three-dimensional boundary conditions for direct and large-eddy simulation of compressible viscous flows. *Journal of Computational Physics*, 227(10):5105–5143, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000685>.

Liang:2007:FSE

- [LDW07] Dong Liang, Chuanbin Du, and Hong Wang. A fractional step ELLAM approach to high-dimensional convection-diffusion problems with forward particle tracking. *Journal of Computational Physics*, 221(1):198–225, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600283X>.

Lee:2003:SCV

- [Lee03] Changhoon Lee. Stability characteristics of the virtual boundary method in three-dimensional applications. *Journal of Computational Physics*, 184(2):559–591, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000384>.

Lee:2005:CCP

- [Lee05] Sang-Hyeon Lee. Convergence characteristics of preconditioned Euler equations. *Journal of Computational Physics*, 208(1):266–288, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001099>.

Lee:2007:ISP

- [Lee07a] Kuo-Ming Lee. An inverse scattering problem from an impedance obstacle. *Journal of Computational Physics*, 227(1):431–439, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003397>.

Lee:2007:CPP

- [Lee07b] Sang-Hyeon Lee. Cancellation problem of preconditioning method at low Mach numbers. *Journal of Computational Physics*, 225(2):1199–1210, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001544>.

Lee:2009:ACP

- [Lee09] Sang-Hyeon Lee. Alleviation of cancellation problem of preconditioned Navier–Stokes equations. *Journal of Computational Physics*, 228(14):4970–4975, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002162>.

Lemou:2000:NAA

- [Lem00] M. Lemou. Numerical algorithms for axisymmetric Fokker–Planck–Landau operators. *Journal of Computational Physics*, 157(2):762–786, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199919996401X>.

Lermusiaux:2006:UEP

- [Ler06] Pierre F. J. Lermusiaux. Uncertainty estimation and prediction for interdisciplinary ocean dynamics. *Journal of Computational Physics*, 217(1):176–199, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000829>.

Lorstad:2004:HOS

- [LF04] Daniel Lörstad and Laszlo Fuchs. High-order surface tension VOF-model for 3D bubble flows with high density ra-

tio. *Journal of Computational Physics*, 200(1):153–176, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001482>.

Linnick:2005:HOI

- [LF05] Mark N. Linnick and Hermann F. Fasel. A high-order immersed interface method for simulating unsteady incompressible flows on irregular domains. *Journal of Computational Physics*, 204(1):157–192, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004127>.

Li:2006:MGK

- [LF06] Qibing Li and Song Fu. On the multidimensional gas-kinetic BGK scheme. *Journal of Computational Physics*, 220(1):532–548, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003469>.

Liu:2000:BCC

- [LFK00] Xu-Dong Liu, Ronald P. Fedkiw, and Myungjoo Kang. A boundary condition capturing method for Poisson’s equation on irregular domains. *Journal of Computational Physics*, 160(1):151–178, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964441>.

Lerat:2007:VPS

- [LFS07] A. Lerat, F. Falissard, and J. Sidès. Vorticity-preserving schemes for the compressible Euler equations. *Journal of Computational Physics*, 225(1):635–651, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006140>.

Lankalapalli:2007:AFE

- [LFSS07] S. Lankalapalli, J. E. Flaherty, M. S. Shephard, and H. Strauss. An adaptive finite element method for magnetohydrodynamics. *Journal of Computational Physics*, 225(1):363–381, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600595X>.

Li:2005:CNS

- [LFX05] Qibing Li, Song Fu, and Kun Xu. A compressible Navier–Stokes flow solver with scalar transport. *Journal of Computational Physics*, 204(2):692–714, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004334>.

Lakkis:2003:AVM

- [LG03a] Issam Lakkis and Ahmed F. Ghoniem. Axisymmetric vortex method for low-Mach number, diffusion-controlled combustion. *Journal of Computational Physics*, 184(2):435–475, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910200030X>.

Li:2003:SCM

- [LG03b] Jing-Rebecca Li and Leslie Greengard. Strongly consistent marching schemes for the wave equation. *Journal of Computational Physics*, 188(1):194–208, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001633>.

Li:2004:HOM

- [LG04] Jing-Rebecca Li and Leslie Greengard. High order marching schemes for the wave equation in complex geometry. *Journal of Computational Physics*, 198(1):295–309, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000294>.

Lee:2005:TNF

- [LG05] June-Yub Lee and Leslie Greengard. The type 3 nonuniform FFT and its applications. *Journal of Computational Physics*, 206(1):1–5, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400511X>.

Li:2007:NSH

- [LG07] Jing-Rebecca Li and Leslie Greengard. On the numerical solution of the heat equation I: Fast solvers in free space. *Journal of Computational Physics*, 226(2):1891–1901, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002689>.

Larsson:2008:SCH

- [LG08] Johan Larsson and Bertil Gustafsson. Stability criteria for hybrid difference methods. *Journal of Computational Physics*, 227(5):2886–2898, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005189>.

Lakkis:2009:HRS

- [LG09] Issam Lakkis and Ahmed Ghoniem. A high resolution spatially adaptive vortex method for separating flows. Part I: Two-dimensional domains. *Journal of Computational Physics*, 228(2):491–515, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005093>.

Lauter:2008:DGM

- [LGHD08] Matthias L  uter, Francis X. Giraldo, D  rthe Handorf, and Klaus Dethloff. A discontinuous Galerkin method for the shallow water equations in spherical triangular coordinates. *Journal of Computational Physics*, 227(24):10226–10242, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004543>.

Lin:2006:NSS

- [LGK06] Guang Lin, Leopold Grinberg, and George Em Karniadakis. Numerical studies of the stochastic Korteweg–de Vries equation. *Journal of Computational Physics*, 213(2):676–703, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004122>.

Lauber:2007:LLG

- [LGKP07] Ph. Lauber, S. Günter, A. Könies, and S. D. Pinches. LIGKA: a linear gyrokinetic code for the description of background kinetic and fast particle effects on the MHD stability in tokamaks. *Journal of Computational Physics*, 226(1):447–465, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001660>.

Lorcher:2008:EDG

- [LGM08] Frieder Lörcher, Gregor Gassner, and Claus-Dieter Munz. An explicit discontinuous Galerkin scheme with local time-stepping for general unsteady diffusion equations. *Journal of Computational Physics*, 227(11):5649–5670, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001046>.

Li:2005:CAM

- [LGN05] KePing Li, ZiYou Gao, and Bin Ning. Cellular automaton model for railway traffic. *Journal of Computational Physics*, 209(1):179–192, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001889>.

Lampoudi:2009:EEV

- [LGP09] Sotiria Lampoudi, Dan T. Gillespie, and Linda R. Petzold. Effect of excluded volume on 2D discrete stochastic chemical kinetics. *Journal of Computational Physics*, 228(10):3656–3668, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000631>.

Langlands:2005:ASI

- [LH05a] T. A. M. Langlands and B. I. Henry. The accuracy and stability of an implicit solution method for the fractional diffusion equation. *Journal of Computational Physics*, 205(2):719–736, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004887>.

Lu:2005:WFS

- [LH05b] Jian-Fei Lu and Andrzej Hanyga. Wave field simulation for heterogeneous porous media with singular memory drag force. *Journal of Computational Physics*, 208(2):651–674, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001245>.

Lopez:2008:AGT

- [LH08a] J. López and J. Hernández. Analytical and geometrical tools for 3D volume of fluid methods in general grids. *Journal of Computational Physics*, 227(12):5939–5948, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001629>.

Loureiro:2008:ISI

- [LH08b] N. F. Loureiro and G. W. Hammett. An iterative semi-implicit scheme with robust damping. *Journal of Computational Physics*, 227(9):4518–4542, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800034X>.

Lauter:2005:UAS

- [LHD05] Matthias L  uter, D  rthe Handorf, and Klaus Dethloff. Unsteady analytical solutions of the spherical shallow water equations. *Journal of Computational Physics*, 210(2):535–553, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002500>.

Lopez:2004:VFM

- [LHGF04] J. L  pez, J. Hern  ndez, P. G  mez, and F. Faura. A volume of fluid method based on multidimensional advection and spline interface reconstruction. *Journal of Computational Physics*, 195(2):718–742, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005801>.

Lopez:2005:IPV

- [LHGF05] J. López, J. Hernández, P. Gómez, and F. Faura. An improved PLIC–VOF method for tracking thin fluid structures in incompressible two-phase flows. *Journal of Computational Physics*, 208(1):51–74, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000513>.

Lauter:2007:PAB

- [LHR⁺07] Matthias Läuter, Dörthe Handorf, Natalja Rakowsky, Jörn Behrens, Stephan Frickenhaus, Meike Best, Klaus Dethloff, and Wolfgang Hiller. A parallel adaptive barotropic model of the atmosphere. *Journal of Computational Physics*, 223(2):609–628, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004645>.

Li:2005:ALE

- [LHZW05] Jie Li, Marc Hesse, Johanna Ziegler, and Andrew W. Woods. An arbitrary Lagrangian Eulerian method for moving-boundary problems and its application to jumping over water. *Journal of Computational Physics*, 208(1):289–314, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001130>.

Li:2001:SPB

- [Li01] Tsung-Lung Li. Simulation of the postexposure bake process of chemically amplified resists by reaction-diffusion equations. *Journal of Computational Physics*, 173(1):348–363, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968810>.

Li:2005:HRS

- [Li05] Shengtai Li. An HLLC Riemann solver for magneto-hydrodynamics. *Journal of Computational Physics*, 203(1):344–357, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003857>.

Li:2008:HOC

- [Li08a] Shengtai Li. High order central scheme on overlapping cells for magneto-hydrodynamic flows with and without constrained transport method. *Journal of Computational Physics*, 227(15):7368–7393, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002519>.

Li:2008:VBC

- [Li08b] Xiantao Li. Variational boundary conditions for molecular dynamics simulations: Treatment of the loading condition. *Journal of Computational Physics*, 227(24):10078–10093, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004300>.

Ling:2001:SGO

- [Lin01] Hong Y. Ling. Solution of generalized optical Bloch equations by the method of matrix continued fraction. *Journal of Computational Physics*, 171(1):264–271, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967865>.

Lin:2002:NSQ

- [Lin02] Kevin K. Lin. Numerical study of quantum resonances in chaotic scattering. *Journal of Computational Physics*, 176(2):295–329, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969864>.

Liou:2000:MFS

- [Lio00] Meng-Sing Liou. Mass flux schemes and connection to shock instability. *Journal of Computational Physics*, 160(2):623–648, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964787>.

Liou:2006:SAP

- [Lio06] Meng-Sing Liou. A sequel to AUSM, Part II: AUSM⁺-up for all speeds. *Journal of Computational Physics*, 214(1):137–170,

May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004274>.

Liu:2005:CSO

- [Liu05] Yingjie Liu. Central schemes on overlapping cells. *Journal of Computational Physics*, 209(1):82–104, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001786>.

Liu:2008:NSO

- [Liu08] Di Liu. A numerical scheme for optimal transition paths of stochastic chemical kinetic systems. *Journal of Computational Physics*, 227(19):8672–8684, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003367>.

Liu:2009:IMI

- [Liu09a] Hao Liu. Integrated modeling of insect flight: From morphology, kinematics to aerodynamics. *Journal of Computational Physics*, 228(2):439–459, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005032>.

Liu:2009:OTB

- [Liu09b] Jie Liu. Open and traction boundary conditions for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 228(19):7250–7267, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003453>.

Liu:2009:TLF

- [Liu09c] Weiming Liu. A triple level finite element method for large eddy simulations. *Journal of Computational Physics*, 228(7):2690–2706, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006505>.

Livermore:2007:IET

- [Liv07] Philip W. Livermore. An implementation of the exponential time differencing scheme to the magnetohydrodynamic equations in a spherical shell. *Journal of Computational Physics*, 220(2):824–838, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002622>.

Lunati:2006:MFV

- [LJ06] Ivan Lunati and Patrick Jenny. Multiscale finite-volume method for compressible multiphase flow in porous media. *Journal of Computational Physics*, 216(2):616–636, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000039>.

Lou:2007:DFD

- [LJ07] Zheng Lou and Jian-Ming Jin. A dual-field domain-decomposition method for the time-domain finite-element analysis of large finite arrays. *Journal of Computational Physics*, 222(1):408–427, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003597>.

Li:2009:PIF

- [LJ09a] Yu-Jia Li and Jian-Ming Jin. Parallel implementation of the FETI-DPEM algorithm for general 3D EM simulations. *Journal of Computational Physics*, 228(9):3255–3267, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900031X>.

Loh:2009:MDD

- [LJ09b] Ching Y. Loh and Philip C. E. Jorgenson. Multi-dimensional dissipation for cure of pathological behaviors of upwind scheme. *Journal of Computational Physics*, 228(5):1343–1346, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005664>.

Li:2009:CTS

- [LJK09] Peijun Li, Hans Johnston, and Robert Krasny. A Cartesian treecode for screened Coulomb interactions. *Journal of Computational Physics*, 228(10):3858–3868, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000916>.

Lampe:2006:QPS

- [LJM⁺06] Martin Lampe, Glenn Joyce, Wallace M. Manheimer, Anatoly Streltsov, and Gurudas Ganguli. Quasineutral particle simulation technique for whistlers. *Journal of Computational Physics*, 214(1):284–298, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004353>.

Liang:2008:CSS

- [LJS08] An Liang, Xiaodong Jing, and Xiaofeng Sun. Constructing spectral schemes of the immersed interface method via a global description of discontinuous functions. *Journal of Computational Physics*, 227(18):8341–8366, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002957>.

Lee:2008:FIN

- [LJSM08] Jae Hoon Lee, Amit Joshi, and Eva M. Sevick-Muraca. Fast intersections on nested tetrahedrons (FINT): An algorithm for adaptive finite element based distributed parameter estimation. *Journal of Computational Physics*, 227(11):5778–5798, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001137>.

Livermore:2007:SRB

- [LJW07] Philip W. Livermore, Chris A. Jones, and Steven J. Worland. Spectral radial basis functions for full sphere computations. *Journal of Computational Physics*, 227(2):1209–1224, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003907>.

Liang:2009:SDM

- [LJW09] Chunlei Liang, Antony Jameson, and Z. J. Wang. Spectral difference method for compressible flow on unstructured grids with mixed elements. *Journal of Computational Physics*, 228(8):2847–2858, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000023>.

Lindsay:2001:PMA

- [LK01] Keith Lindsay and Robert Krasny. A particle method and adaptive treecode for vortex sheet motion in three-dimensional flow. *Journal of Computational Physics*, 172(2):879–907, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968627>.

LeMaitre:2007:SPM

- [LK07] Olivier P. Le Maître and Omar M. Knio. A stochastic particle-mesh scheme for uncertainty propagation in vortical flows. *Journal of Computational Physics*, 226(1):645–671, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002008>.

Li:2009:MRA

- [LK09] Yuanhong Li and Song-Charnng Kong. Mesh refinement algorithms in an unstructured solver for multiphase flow simulation using discrete particles. *Journal of Computational Physics*, 228(17):6349–6360, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002782>.

Laermans:2004:TDM

- [LKD04] E. Laermans, L. Knockaert, and D. De Zutter. Two-dimensional method of moments modelling of lossless overmoded transverse magnetic cavities. *Journal of Computational Physics*, 198(1):326–348, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000312>.

Lehtovaara:2004:ENM

- [LKE04] L. Lehtovaara, T. Kiljunen, and J. Eloranta. Efficient numerical method for simulating static and dynamic properties of superfluid helium. *Journal of Computational Physics*, 194(1):78–91, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004613>.

Liu:2009:FCM

- [LKMK09] D. Liu, E. E. Keaveny, M. R. Maxey, and G. E. Karniadakis. Force-coupling method for flows with ellipsoidal particles. *Journal of Computational Physics*, 228(10):3559–3581, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000369>.

Liu:2005:SIC

- [LKMU05] H. Liu, S. Krishnan, S. Marella, and H. S. Udaykumar. Sharp interface Cartesian grid method II: a technique for simulating droplet interactions with surfaces of arbitrary shape. *Journal of Computational Physics*, 210(1):32–54, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001968>.

LeMaitre:2001:SPM

- [LKNG01] Olivier P. Le Maître, Omar M. Knio, Habib N. Najm, and Roger G. Ghanem. A stochastic projection method for fluid flow: I. Basic formulation. *Journal of Computational Physics*, 173(2):481–511, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968895>.

LeMaitre:2004:UPU

- [LKNG04] O. P. Le Maître, O. M. Knio, H. N. Najm, and R. G. Ghanem. Uncertainty propagation using Wiener–Haar expansions. *Journal of Computational Physics*, 197(1):28–57, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006181>.

Liu:2005:HPM

- [LKO05] Jie Liu, Seiichi Koshizuka, and Yoshiaki Oka. A hybrid particle-mesh method for viscous, incompressible, multiphase flows. *Journal of Computational Physics*, 202(1):65–93, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002682>.

Le:2006:IIM

- [LKP06] D. V. Le, B. C. Khoo, and J. Peraire. An immersed interface method for viscous incompressible flows involving rigid and flexible boundaries. *Journal of Computational Physics*, 220(1):109–138, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002245>.

Liu:2005:GFM

- [LKW05] T. G. Liu, B. C. Khoo, and C. W. Wang. The ghost fluid method for compressible gas-water simulation. *Journal of Computational Physics*, 204(1):193–221, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004139>.

Liu:2004:IOF

- [LXX04] T. G. Liu, B. C. Khoo, and W. F. Xie. Isentropic one-fluid modelling of unsteady cavitating flow. *Journal of Computational Physics*, 201(1):80–108, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002025>.

Liu:2003:GFM

- [LKY03] T. G. Liu, B. C. Khoo, and K. S. Yeo. Ghost fluid method for strong shock impacting on material interface. *Journal of Computational Physics*, 190(2):651–681, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003012>.

Langseth:2000:WPM

- [LL00] Jan Olav Langseth and Randall J. LeVeque. A wave propagation method for three-dimensional hyperbolic conservation laws. *Journal of Computational Physics*, 165(1):126–166, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966063>.

Lee:2001:CGM

- [LL01a] Taehun Lee and Ching-Long Lin. A characteristic Galerkin method for discrete Boltzmann equation. *Journal of Computational Physics*, 171(1):336–356, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967919>.

Li:2001:IIM

- [LL01b] Zhilin Li and Ming-Chih Lai. The immersed interface method for the Navier–Stokes equations with singular forces. *Journal of Computational Physics*, 171(2):822–842, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968135>.

Lallemand:2003:LBM

- [LL03a] Pierre Lallemand and Li-Shi Luo. Lattice Boltzmann method for moving boundaries. *Journal of Computational Physics*, 184(2):406–421, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000220>.

Lee:2003:EDS

- [LL03b] Taehun Lee and Ching-Long Lin. An Eulerian description of the streaming process in the lattice Boltzmann equation. *Journal of Computational Physics*, 185(2):445–471, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000657>.

Liu:2003:PSS

- [LL03c] Xu-Dong Liu and Peter D. Lax. Positive schemes for solving multi-dimensional hyperbolic systems of conservation laws

II. *Journal of Computational Physics*, 187(2):428–440, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001001>.

Leriche:2004:SES

- [LL04a] E. Leriche and G. Labrosse. Stokes eigenmodes in square domain and the stream function-vorticity correlation. *Journal of Computational Physics*, 200(2):489–511, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001779>.

Li:2004:NAD

- [LL04b] Shengtai Li and Hui Li. A novel approach of divergence-free reconstruction for adaptive mesh refinement. *Journal of Computational Physics*, 199(1):1–15, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000622>.

Lee:2005:SDL

- [LL05] Taehun Lee and Ching-Long Lin. A stable discretization of the lattice Boltzmann equation for simulation of incompressible two-phase flows at high density ratio. *Journal of Computational Physics*, 206(1):16–47, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004929>.

Lin:2006:SSD

- [LL06a] Ping Lin and Chun Liu. Simulations of singularity dynamics in liquid crystal flows: a C^0 finite element approach. *Journal of Computational Physics*, 215(1):348–362, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004912>.

Liu:2006:RRB

- [LL06b] Yaling Liu and Wing Kam Liu. Rheology of red blood cell aggregation by computer simulation. *Journal of Computational Physics*, 220(1):139–154, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002257>.

Liovic:2007:MPT

- [LL07] Petar Liovic and Djamel Lakehal. Multi-physics treatment in the vicinity of arbitrarily deformable gas-liquid interfaces. *Journal of Computational Physics*, 222(2):504–535, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003640>.

Liu:2008:NST

- [LL08a] Dongming Liu and Pengzhi Lin. A numerical study of three-dimensional liquid sloshing in tanks. *Journal of Computational Physics*, 227(8):3921–3939, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005414>.

Lutjens:2008:XCN

- [LL08b] Hinrich Lütjens and Jean-François Luciani. The XTOR code for nonlinear 3D simulations of MHD instabilities in tokamak plasmas. *Journal of Computational Physics*, 227(14):6944–6966, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002064>.

Laizet:2009:HOC

- [LL09] Sylvain Laizet and Eric Lamballais. High-order compact schemes for incompressible flows: a simple and efficient method with quasi-spectral accuracy. *Journal of Computational Physics*, 228(16):5989–6015, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002587>.

Lohner:2005:SER

- [LLB05] Rainald Löhner, Hong Luo, and Joseph D. Baum. Selective edge removal for unstructured grids with Cartesian cores. *Journal of Computational Physics*, 206(1):208–226, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005091>.

Lee:2006:LBA

- [LLC06] Taehun Lee, Ching-Long Lin, and Lea-Der Chen. A lattice Boltzmann algorithm for calculation of the laminar jet diffusion flame. *Journal of Computational Physics*, 215(1):133–152, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004821>.

Luo:2008:SIL

- [LLC⁺08] Junzhao Luo, Zhen Luo, Liping Chen, Liyong Tong, and Michael Yu Wang. A semi-implicit level set method for structural shape and topology optimization. *Journal of Computational Physics*, 227(11):5561–5581, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000995>.

Liao:2000:LSB

- [LLdlP⁺00] Guojun Liao, Feng Liu, Gary C. de la Pena, Danping Peng, and Stanley Osher. Level-set-based deformation methods for adaptive grids. *Journal of Computational Physics*, 159(1):103–122, March 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964325>.

Liu:2007:FTA

- [LLGL07] Xinfeng Liu, Yuanhua Li, J. Glimm, and X. L. Li. A front tracking algorithm for limited mass diffusion. *Journal of Computational Physics*, 222(2):644–653, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003718>.

Lan:2002:AFV

- [LLH02] C. W. Lan, C. C. Liu, and C. M. Hsu. An adaptive finite volume method for incompressible heat flow problems in solidification. *Journal of Computational Physics*, 178(2):464–497, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970373>.

LeMaitre:2001:CMP

- [LLIK01a] Olivier Le Maître, Julia Levin, Mohamed Iskandarani, and Omar M. Knio. Corrigendum: “A Multiscale Pressure Splitting of the Shallow-Water Equations. I. Formulation and 1D Tests”: Volume 166, Number 1 (2001), pages 116–151. *Journal of Computational Physics*, 167(2):501, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967178>. See [LLIK01b].

LeMaitre:2001:MPS

- [LLIK01b] Olivier Le Maître, Julia Levin, Mohamed Iskandarani, and Omar M. Knio. A multiscale pressure splitting of the shallow-water equations: I. Formulation and 1D tests. *Journal of Computational Physics*, 166(1):116–151, January 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966471>. See corrigendum [LLIK01a].

Li:2007:RSA

- [LLL07] Shuwang Li, John S. Lowengrub, and Perry H. Leo. A rescaling scheme with application to the long-time simulation of viscous fingering in a Hele–Shaw cell. *Journal of Computational Physics*, 225(1):554–567, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006073>.

Leo:2000:MEO

- [LLN00] P. H. Leo, J. S. Lowengrub, and Qing Nie. Microstructural evolution in orthotropic elastic media. *Journal of Computational Physics*, 157(1):44–88, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963593>.

Liang:2006:SMM

- [LLOT06] Kewei Liang, Ping Lin, Ming Tze Ong, and Roger C. E. Tan. A splitting moving mesh method for reaction-diffusion

equations of quenching type. *Journal of Computational Physics*, 215(2):757–777, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005383>.

Lallemand:2007:LBF

- [LLP07] Pierre Lallemand, Li-Shi Luo, and Yan Peng. A lattice Boltzmann front-tracking method for interface dynamics with surface tension in two dimensions. *Journal of Computational Physics*, 226(2):1367–1384, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002380>.

Lu:2002:LES

- [LLQ⁺02] Zhenyu Lu, Ying Liao, Dongying Qian, J. B. McLaughlin, J. J. Derksen, and K. Kontomaris. Large eddy simulations of a stirred tank using the lattice Boltzmann method on a nonuniform grid. *Journal of Computational Physics*, 181(2):675–704, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971512>.

Lu:2009:CEI

- [LLRP09] Liuyan Lu, Steven R. Lantz, Zhuyin Ren, and Stephen B. Pope. Computationally efficient implementation of combustion chemistry in parallel PDF calculations. *Journal of Computational Physics*, 228(15):5490–5525, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002277>.

Li:2009:IGS

- [LLS09] Jiequan Li, Tiegang Liu, and Zhongfeng Sun. Implementation of the GRP scheme for computing radially symmetric compressible fluid flows. *Journal of Computational Physics*, 228(16):5867–5887, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002411>.

Liu:2007:ALF

- [LLTA07] Q. Liu, F. Liu, I. Turner, and V. Anh. Approximation of the Lévy–Feller advection-dispersion process by random walk and finite difference method. *Journal of Computational Physics*, 222(1):57–70, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002828>.

Larsson:2005:CSM

- [LLY05] J. Larsson, F. S. Lien, and E. Yee. Conditional semi-coarsening multigrid algorithm for the Poisson equation on anisotropic grids. *Journal of Computational Physics*, 208(1):368–383, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001166>.

Lin:2007:ELP

- [LLZ07] Ping Lin, Chun Liu, and Hui Zhang. An energy law preserving C^0 finite element scheme for simulating the kinematic effects in liquid crystal dynamics. *Journal of Computational Physics*, 227(2):1411–1427, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004007>.

Li:2001:EPT

- [LM01] Genong Li and Michael F. Modest. An effective particle tracing scheme on structured/unstructured grids in hybrid finite volume/PDF Monte Carlo methods. *Journal of Computational Physics*, 173(1):187–207, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968718>. See comment [MCP03] and reply [LM01].

Li:2003:RCA

- [LM03a] G. Li and M. F. Modest. Reply to the comment on the article “An effective particle tracing scheme on structured/unstructured grids in hybrid Finite Volume/PDF Monte Carlo methods” by G. Li and M. F. Modest [J. Comp. Phys. **173** (2001) 187–207]. *Journal of Computational Physics*, 186(1):359, March 20, 2003. CODEN

JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300007X>. See [LM01].

Lomholt:2003:FCM

- [LM03b] Sune Lomholt and Martin R. Maxey. Force-coupling method for particulate two-phase flow: Stokes flow. *Journal of Computational Physics*, 184(2):381–405, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000219>.

Layton:2004:CMI

- [LM04] Anita T. Layton and Michael L. Minion. Conservative multi-implicit spectral deferred correction methods for reacting gas dynamics. *Journal of Computational Physics*, 194(2):697–715, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005023>.

LeFloch:2008:WMT

- [LM08a] Philippe G. LeFloch and Majid Mohammadian. Why many theories of shock waves are necessary: Kinetic functions, equivalent equations, and fourth-order models. *Journal of Computational Physics*, 227(8):4162–4189, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005694>.

Lejay:2008:CPE

- [LM08b] Antoine Lejay and Sylvain Maire. Computing the principal eigenelements of some linear operators using a branching Monte Carlo method. *Journal of Computational Physics*, 227(23):9794–9806, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004075>.

Liu:2008:IFE

- [LM08c] Weiming Liu and Georgy Makhviladze. An implicit finite element solution of thermal flows at low Mach number. *Journal of Computational Physics*, 227(5):2743–2757, February 20,

2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004743>.

Liu:2007:DPD

- [LMH07] Moubin Liu, Paul Meakin, and Hai Huang. Dissipative particle dynamics simulation of fluid motion through an unsaturated fracture and fracture junction. *Journal of Computational Physics*, 222(1):110–130, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003202>.

Lang:2003:ATE

- [LMK03] Michael Lang, Wolfgang Michalke, and Stefan Kreitmeyer. Analysis of trapped entanglements in polymer networks. *Journal of Computational Physics*, 185(2):549–561, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000032>.

Luo:2009:SPM

- [LMK09] Xian Luo, Martin R. Maxey, and George Em Karniadakis. Smoothed profile method for particulate flows: Error analysis and simulations. *Journal of Computational Physics*, 228(5):1750–1769, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005925>.

Layton:2009:ARF

- [LMN⁺09] William Layton, Carolina C. Manica, Monika Neda, Maxim Olshanskii, and Leo G. Rebholz. On the accuracy of the rotation form in simulations of the Navier–Stokes equations. *Journal of Computational Physics*, 228(9):3433–3447, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000540>.

Lukacova-Medvidova:2007:WBF

- [LMNK07] M. Lukáčová-Medvid'ová, S. Noelle, and M. Kraft. Well-balanced finite volume evolution Galerkin methods for the shallow water equations. *Journal of Computational*

Physics, 221(1):122–147, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002786>.

Lopez:2002:ESP

- [LMS02] J. M. Lopez, F. Marques, and Jie Shen. An efficient spectral-projection method for the Navier–Stokes equations in cylindrical geometries: II. Three-dimensional cases. *Journal of Computational Physics*, 176(2):384–401, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102969937>.

Lipnikov:2004:MFD

- [LMS04] Konstantin Lipnikov, Jim Morel, and Mikhail Shashkov. Mimetic finite difference methods for diffusion equations on non-orthogonal non-conformal meshes. *Journal of Computational Physics*, 199(2):589–597, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000968>.

LeMetayer:2005:MEF

- [LMS05] O. Le Métayer, J. Massoni, and R. Saurel. Modelling evaporation fronts with reactive Riemann solvers. *Journal of Computational Physics*, 205(2):567–610, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004814>.

Lipnikov:2008:MMM

- [LMS08] K. Lipnikov, J. D. Moulton, and D. Svyatskiy. A multilevel multiscale mimetic (M^3) method for two-phase flows in porous media. *Journal of Computational Physics*, 227(14):6727–6753, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001654>.

Legrand:2000:WAW

- [LMSV00] Olivier Legrand, Fabrice Mortessagne, Patrick Sebbah, and Christian Vanneste. A wave automaton for wave propagation in inhomogeneous anisotropic media. *Journal of Com-*

putational Physics, 160(2):541–563, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964714>.

Lukacova-Medvidova:2002:FVE

- [LMSW02] M. Lukáčová-Medvid'ová, J. Saibertová, and G. Warnecke. Finite volume evolution Galerkin methods for nonlinear hyperbolic systems. *Journal of Computational Physics*, 183(2):533–562, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972074>.

Laurent:2004:EMF

- [LMV04] Frédérique Laurent, Marc Massot, and Philippe Villedieu. Eulerian multi-fluid modeling for the numerical simulation of coalescence in polydisperse dense liquid sprays. *Journal of Computational Physics*, 194(2):505–543, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004935>.

Lee:2008:CWC

- [LMX⁺08] E.-S. Lee, C. Moulinec, R. Xu, D. Violeau, D. Laurence, and P. Stansby. Comparisons of weakly compressible and truly incompressible algorithms for the SPH mesh free particle method. *Journal of Computational Physics*, 227(18):8417–8436, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800315X>.

Luo:2008:IBM

- [LMZ⁺08] Haoxiang Luo, Rajat Mittal, Xudong Zheng, Steven A. Bielałowicz, Raymond J. Walsh, and James K. Hahn. An immersed-boundary method for flow-structure interaction in biological systems with application to phonation. *Journal of Computational Physics*, 227(22):9303–9332, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002623>.

Li:2009:HOB

- [LN09] Xiaofan Li and Qing Nie. A high-order boundary integral method for surface diffusions on elastically stressed axisymmetric rods. *Journal of Computational Physics*, 228(12):4625–4637, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001594>.

LeMaitre:2004:MRA

- [LNGK04] O. P. Le Maître, H. N. Najm, R. G. Ghanem, and O. M. Knio. Multi-resolution analysis of Wiener-type uncertainty propagation schemes. *Journal of Computational Physics*, 197(2):502–531, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006491>.

Liu:2009:NGL

- [LNXNTX09] G. R. Liu, H. Nguyen-Xuan, T. Nguyen-Thoi, and X. Xu. A novel Galerkin-like weakform and a superconvergent alpha finite element method ($S \propto FEM$) for mechanics problems using triangular meshes. *Journal of Computational Physics*, 228(11):4055–4087, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000928>.

Lohner:2004:MEA

- [Löh04] Rainald Löhner. Multistage explicit advective prediction for projection-type incompressible flow solvers. *Journal of Computational Physics*, 195(1):143–152, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300514X>.

Lee:2001:CFS

- [LOK01] Moon J. Lee, Byung Do Oh, and Young Bae Kim. Canonical fractional-step methods and consistent boundary conditions for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 168(1):73–100, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966828>.

Liu:2005:NDF

- [LOK05] Junhui Liu, Elaine S. Oran, and Carolyn R. Kaplan. Numerical diffusion in the FCT algorithm, revisited. *Journal of Computational Physics*, 208(2):416–434, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000896>.

Lou:2000:EST

- [Lou00] L. Lou. Exploring sparsity in three-dimensional integration for density-functional calculations. *Journal of Computational Physics*, 157(1):404–416, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199919996388X>.

Lowrie:2004:CIT

- [Low04] Robert B. Lowrie. A comparison of implicit time integration methods for nonlinear relaxation and diffusion. *Journal of Computational Physics*, 196(2):566–590, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006089>.

Lowe:2005:TPS

- [Low05] C. A. Lowe. Two-phase shock-tube problems and numerical methods of solution. *Journal of Computational Physics*, 204(2):598–632, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004309>.

Lai:2000:IBM

- [LP00] Ming-Chih Lai and Charles S. Peskin. An immersed boundary method with formal second-order accuracy and reduced numerical viscosity. *Journal of Computational Physics*, 160(2):705–719, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964830>.

LeVeque:2001:CAR

- [LP01] Randall J. LeVeque and Marica Pelanti. A class of approximate Riemann solvers and their relation to relaxation schemes. *Journal of Computational Physics*, 172(2):572–591, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196838X>.

Lopes:2002:NSI

- [LP02] A. Silva Lopes and J. M. L. M. Palma. Numerical simulation of isotropic turbulence using a collocated approach and a nonorthogonal grid system. *Journal of Computational Physics*, 175(2):713–738, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969645>.

Li:2004:ASA

- [LP04a] Shengtai Li and Linda Petzold. Adjoint sensitivity analysis for time-dependent partial differential equations with adaptive mesh refinement. *Journal of Computational Physics*, 198(1):310–325, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000300>.

Lombard:2004:NTT

- [LP04b] Bruno Lombard and Joël Piraux. Numerical treatment of two-dimensional interfaces for acoustic and elastic waves. *Journal of Computational Physics*, 195(1):90–116, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005126>.

Lessani:2006:TAC

- [LP06a] Bamdad Lessani and Miltiadis V. Papalexandris. Time-accurate calculation of variable density flows with strong temperature gradients and combustion. *Journal of Computational Physics*, 212(1):218–246, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003189>.

Liu:2006:ICL

- [LP06b] Kunlun Liu and Richard H. Pletcher. Inflow conditions for the large eddy simulation of turbulent boundary layers: a dynamic recycling procedure. *Journal of Computational Physics*, 219(1):1–6, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001963>.

Lau:2007:MSM

- [LP07a] Stephen R. Lau and Richard H. Price. Multidomain spectral method for the helically reduced wave equation. *Journal of Computational Physics*, 227(2):1126–1161, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003828>.

Liu:2007:FSM

- [LP07b] Kunlun Liu and Richard H. Pletcher. A fractional step method for solving the compressible Navier–Stokes equations. *Journal of Computational Physics*, 226(2):1930–1951, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002707>.

Leutbecher:2008:EF

- [LP08] M. Leutbecher and T. N. Palmer. Ensemble forecasting. *Journal of Computational Physics*, 227(7):3515–3539, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000812>.

Lu:2009:IAS

- [LP09] Liuyan Lu and Stephen B. Pope. An improved algorithm for in situ adaptive tabulation. *Journal of Computational Physics*, 228(2):361–386, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800483X>.

Lee:2005:WNC

- [LPK05] Sang-Ho Lee, Kim Palmo, and Samuel Krimm. WIGGLE: a new constrained molecular dynamics algorithm in

Cartesian coordinates. *Journal of Computational Physics*, 210(1):171–182, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002056>.

Luchini:2006:LCP

- [LQ06] Paolo Luchini and Maurizio Quadrio. A low-cost parallel implementation of direct numerical simulation of wall turbulence. *Journal of Computational Physics*, 211(2):551–571, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002871>.

Leung:2009:EGB

- [LQ09] Shingyu Leung and Jianliang Qian. Eulerian Gaussian beams for Schrödinger equations in the semi-classical regime. *Journal of Computational Physics*, 228(8):2951–2977, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000114>.

Liu:2006:FDG

- [LQX06] Xueqiang Liu, Ning Qin, and Hao Xia. Fast dynamic grid deformation based on Delaunay graph mapping. *Journal of Computational Physics*, 211(2):405–423, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002809>.

Leimkuhler:2001:RAI

- [LR01a] Ben Leimkuhler and Sebastian Reich. A reversible averaging integrator for multiple time-scale dynamics. *Journal of Computational Physics*, 171(1):95–114, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967749>.

Lu:2001:RBW

- [LR01b] Huei-Iin Lu and Franklin R. Robertson. Retrieving the balanced winds on the globe as a generalized inverse problem. *Journal of Computational Physics*, 170(1):299–319, June 10,

2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967385>.

Lockerby:2003:HRB

- [LR03] Duncan A. Lockerby and Jason M. Reese. High-resolution Burnett simulations of micro Couette flow and heat transfer. *Journal of Computational Physics*, 188(2):333–347, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001621>.

Lin:2007:AHM

- [LR07] Ping Lin and Thomas Richter. An adaptive homotopy multi-grid method for molecule orientations of high dimensional liquid crystals. *Journal of Computational Physics*, 225(2):2069–2082, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001209>.

Lester:2008:GPS

- [LRMB08] D. R. Lester, M. Rudman, G. Metcalfe, and H. M. Blackburn. Global parametric solutions of scalar transport. *Journal of Computational Physics*, 227(6):3032–3057, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004603>.

LeMaitre:2002:SPM

- [LRN⁺02] Olivier P. Le Maître, Matthew T. Reagan, Habib N. Najm, Roger G. Ghanem, and Omar M. Knio. A stochastic projection method for fluid flow: II. random process. *Journal of Computational Physics*, 181(1):9–44, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971044>.

Lelievre:2007:CFE

- [LRS07] Tony Lelièvre, Mathias Rousset, and Gabriel Stoltz. Computation of free energy differences through nonequilibrium stochastic dynamics: The reaction coordinate case. *Journal of Computational Physics*, 222(2):624–643, March 20,

2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003706>.

Love:2009:SAP

- [LRS09] E. Love, W. J. Rider, and G. Scovazzi. Stability analysis of a predictor/multi-corrector method for staggered-grid Lagrangian shock hydrodynamics. *Journal of Computational Physics*, 228(20):7543–7564, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003635>.

Liu:2004:CFS

- [LRZ04] Miao'er Liu, Yu-Xin Ren, and Hanxin Zhang. A class of fully second order accurate projection methods for solving the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 200(1):325–346, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400169X>.

Liu:2000:HOD

- [LS00] Jian-Guo Liu and Chi-Wang Shu. A high-order discontinuous Galerkin method for 2D incompressible flows. *Journal of Computational Physics*, 160(2):577–596, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964751>.

Labourasse:2002:RTF

- [LS02a] E. Labourasse and P. Sagaut. Reconstruction of turbulent fluctuations using a hybrid RANS/LES approach. *Journal of Computational Physics*, 182(1):301–336, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297169X>.

Lappa:2002:ACM

- [LS02b] M. Lappa and R. Savino. 3D analysis of crystal/melt interface shape and Marangoni flow instability in solidifying liquid bridges. *Journal of Computational Physics*, 180(2):751–774, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971317>.

Lee:2002:NCS

- [LS02c] Changhoon Lee and Youngchwa Seo. A new compact spectral scheme for turbulence simulations. *Journal of Computational Physics*, 183(2):438–469, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972013>.

Layton:2003:SLD

- [LS03] Anita T. Layton and William F. Spitz. A semi-Lagrangian double Fourier method for the shallow water equations on the sphere. *Journal of Computational Physics*, 189(1):180–196, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002079>.

Lin:2005:ADR

- [LS05a] R. K. Lin and Tony W. H. Sheu. Application of dispersion-relation-preserving theory to develop a two-dimensional convection-diffusion scheme. *Journal of Computational Physics*, 208(2):493–526, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001191>.

Loubere:2005:SRM

- [LS05b] Raphaël Loubère and Mikhail J. Shashkov. A subcell remapping method on staggered polygonal grids for arbitrary-Lagrangian–Eulerian methods. *Journal of Computational Physics*, 209(1):105–138, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001841>.

Li:2007:RGR

- [LS07] Jiequan Li and Zhongfeng Sun. Remark on the generalized Riemann problem method for compressible fluid flows. *Journal of Computational Physics*, 222(2):796–808, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003950>.

Li:2008:FTS

- [LS08] Xiaoyi Li and Kausik Sarkar. Front tracking simulation of deformation and buckling instability of a liquid capsule enclosed by an elastic membrane. *Journal of Computational Physics*, 227(10):4998–5018, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000569>.

Liu:2009:NTS

- [LS09] Yang Liu and Mrinal K. Sen. A new time-space domain high-order finite-difference method for the acoustic wave equation. *Journal of Computational Physics*, 228(23):8779–8806, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004707>.

Lazic:2006:RHM

- [LSA06] Predrag Lazić, Hrvoje Stefancić, and Hrvoje Abraham. The Robin hood method — a novel numerical method for electrostatic problems based on a non-local charge transfer. *Journal of Computational Physics*, 213(1):117–140, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003712>.

Lacor:2004:FVF

- [LSB04] Chris Lacor, Sergey Smirnov, and Martine Baelmans. A finite volume formulation of compact central schemes on arbitrary structured grids. *Journal of Computational Physics*, 198(2):535–566, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000518>.

Latini:2007:EFW

- [LSD07] Marco Latini, Oleg Schilling, and Wai Sun Don. Effects of WENO flux reconstruction order and spatial resolution on reshocked two-dimensional Richtmyer–Meshkov instability. *Journal of Computational Physics*, 221(2):805–836, Febru-

ary 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003196>.

Li:2005:LFM

- [LSJA05] Q. Li, J. Soric, T. Jarak, and S. N. Atluri. A locking-free meshless local Petrov–Galerkin formulation for thick and thin plates. *Journal of Computational Physics*, 208(1):116–133, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000872>.

Lin:2006:PSD

- [LSK06] G. Lin, C.-H. Su, and G. E. Karniadakis. Predicting shock dynamics in the presence of uncertainties. *Journal of Computational Physics*, 217(1):260–276, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001197>.

Lan:2008:MRT

- [LSL08] Xudong Lan, Jun Sun, and Zhixin Li. Modified relaxation time Monte Carlo method for continuum-transition gas flows. *Journal of Computational Physics*, 227(9):4763–4775, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000491>.

Lipnikov:2006:MFD

- [LSS06] Konstantin Lipnikov, Mikhail Shashkov, and Daniil Svyatskiy. The mimetic finite difference discretization of diffusion problem on unstructured polyhedral meshes. *Journal of Computational Physics*, 211(2):473–491, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002834>.

Lin:2009:PPA

- [LSS⁺09] Paul T. Lin, John N. Shadid, Marzio Sala, Raymond S. Tuminaro, Gary L. Hennigan, and Robert J. Hoekstra. Performance of a parallel algebraic multilevel preconditioner for stabilized finite element semiconductor device modeling. *Journal of Computational Physics*, 228(17):6250–6267, Septem-

ber 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002733>.

Lipnikov:2007:MFV

- [LSSV07] K. Lipnikov, M. Shashkov, D. Svyatskiy, and Yu. Vassilevski. Monotone finite volume schemes for diffusion equations on unstructured triangular and shape-regular polygonal meshes. *Journal of Computational Physics*, 227(1):492–512, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003440>.

Lipnikov:2009:IFM

- [LSV09] K. Lipnikov, D. Svyatskiy, and Y. Vassilevski. Interpolation-free monotone finite volume method for diffusion equations on polygonal meshes. *Journal of Computational Physics*, 228(3):703–716, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005056>.

Loubere:2006:RPN

- [LSW06] Raphaël Loubère, Martin Staley, and Burton Wendroff. The repair paradigm: New algorithms and applications to compressible flow. *Journal of Computational Physics*, 211(2):385–404, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002706>.

Loubere:2008:VCS

- [LSW08] R. Loubère, M. Shashkov, and B. Wendroff. Volume consistency in a staggered grid Lagrangian hydrodynamics scheme. *Journal of Computational Physics*, 227(8):3731–3737, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000223>.

Levy:2004:LDG

- [LSY04] Doron Levy, Chi-Wang Shu, and Jue Yan. Local discontinuous Galerkin methods for nonlinear dispersive equations. *Journal of Computational Physics*, 196(2):751–772, May 20,

2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006156>.

Li:2008:SOD

- [LSZZ08] Fengyan Li, Chi-Wang Shu, Yong-Tao Zhang, and Hongkai Zhao. A second order discontinuous Galerkin fast sweeping method for eikonal equations. *Journal of Computational Physics*, 227(17):8191–8208, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003082>.

Lai:2005:FIS

- [LT05] Ming-Chih Lai and Yu-Hou Tseng. A fast iterative solver for the variable coefficient diffusion equation on a disk. *Journal of Computational Physics*, 208(1):196–205, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000926>.

Lin:2009:ADO

- [LT09a] Zhili Lin and Lars Thylén. An analytical derivation of the optimum source patterns for the pseudospectral time-domain method. *Journal of Computational Physics*, 228(19):7375–7387, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003659>.

Linton:2009:OTD

- [LT09b] C. M. Linton and I. Thompson. One- and two-dimensional lattice sums for the three-dimensional Helmholtz equation. *Journal of Computational Physics*, 228(6):1815–1829, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005962>.

Liu:2007:ERK

- [LTC07] Jiangguo Liu, Simon Tavener, and Hongsen Chen. EL-LAM for resolving the kinematics of two-dimensional resistive magnetohydrodynamic flows. *Journal of Computational Physics*, 227(2):1372–1386, December 10, 2007. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003981>.

Li:2004:WOS

- [LTD04] Tingqiu Li, Peter Troch, and Julien De Rouck. Wave overtopping over a sea dike. *Journal of Computational Physics*, 198(2):686–726, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000592>.

Liu:2006:CCH

- [LTD⁺06] L. Liu, J. P. Thomas, E. H. Dowell, P. Attar, and K. C. Hall. A comparison of classical and high dimensional harmonic balance approaches for a Duffing oscillator. *Journal of Computational Physics*, 215(1):298–320, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004894>.

Li:2007:IBW

- [LTD07] Tingqiu Li, Peter Troch, and Julien De Rouck. Interactions of breaking waves with a current over cut cells. *Journal of Computational Physics*, 223(2):865–897, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004785>.

Lehtovaara:2007:STI

- [LTE07] L. Lehtovaara, J. Toivanen, and J. Eloranta. Solution of time-independent Schrödinger equation by the imaginary time propagation method. *Journal of Computational Physics*, 221(1):148–157, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002798>.

Lai:2008:IBM

- [LTH08] Ming-Chih Lai, Yu-Hau Tseng, and Huaxiong Huang. An immersed boundary method for interfacial flows with insoluble surfactant. *Journal of Computational Physics*, 227(15):7279–7293, July 20, 2008. CODEN JCTPAH. ISSN

0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002283>.

Larsen:2002:SAE

- [LTK⁺02] Edward W. Larsen, Guido Thömmes, Axel Klar, Mohammed Seaïd, and Thomas Götz. Simplified P_N approximations to the equations of radiative heat transfer and applications. *Journal of Computational Physics*, 183(2):652–675, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972104>.

Luo:2009:DPA

- [LTL⁺09] Zhen Luo, Liyong Tong, Junzhao Luo, Peng Wei, and Michael Yu Wang. Design of piezoelectric actuators using a multiphase level set method of piecewise constants. *Journal of Computational Physics*, 228(7):2643–2659, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006633>.

Luo:2009:STO

- [LTM09] Zhen Luo, Liyong Tong, and Haitao Ma. Shape and topology optimization for electrothermomechanical microactuators using level set methods. *Journal of Computational Physics*, 228(9):3173–3181, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000084>.

Luo:2007:STO

- [LTWW07] Zhen Luo, Liyong Tong, Michael Yu Wang, and Shengyin Wang. Shape and topology optimization of compliant mechanisms using a parameterization level set method. *Journal of Computational Physics*, 227(1):680–705, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003531>.

Li:2001:MMM

- [LTZ01] Ruo Li, Tao Tang, and Pingwen Zhang. Moving mesh methods in multiple dimensions based on harmonic maps. *Journal of Computational Physics*, 170(2):562–588, July 1, 2001.

CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196749X>.

Li:2002:MMF

- [LTZ02] Ruo Li, Tao Tang, and Pingwen Zhang. A moving mesh finite element algorithm for singular problems in two and three space dimensions. *Journal of Computational Physics*, 177(2):365–393, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970026>.

Li:2003:PBM

- [LTZ03] Liyong Li, Hamdi A. Tchelepi, and Dongxiao Zhang. Perturbation-based moment equation approach for flow in heterogeneous porous media: applicability range and analysis of high-order terms. *Journal of Computational Physics*, 188(1):296–317, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001864>.

Lurati:2007:PGS

- [Lur07] Laura B. Lurati. Padé-Gegenbauer suppression of Runge phenomenon in the diagonal limit of Gegenbauer approximations. *Journal of Computational Physics*, 222(1):1–8, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003056>.

Liu:2007:BPM

- [LV07] Qianlong Liu and Oleg V. Vasilyev. A Brinkman penalization method for compressible flows in complex geometries. *Journal of Computational Physics*, 227(2):946–966, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003403>.

Lee:2005:NOD

- [LVL05] Seung-Cheol Lee, Marinos N. Vouvakis, and Jin-Fa Lee. A non-overlapping domain decomposition method with non-matching grids for modeling large finite antenna arrays. *Jour-*

nal of Computational Physics, 203(1):1–21, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003158>.

Liu:2006:SDM

- [LVW06a] Yen Liu, Marcel Vinokur, and Z. J. Wang. Spectral difference method for unstructured grids I: Basic formulation. *Journal of Computational Physics*, 216(2):780–801, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000106>.

Liu:2006:SFV

- [LVW06b] Yen Liu, Marcel Vinokur, and Z. J. Wang. Spectral (finite) volume method for conservation laws on unstructured grids V: Extension to three-dimensional systems. *Journal of Computational Physics*, 212(2):454–472, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003281>.

Liu:2001:EPM

- [LW01] Jian-Guo Liu and Wei-Cheng Wang. An energy-preserving MAC–Yee scheme for the incompressible MHD equation. *Journal of Computational Physics*, 174(1):12–37, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967725>.

Liu:2004:EHP

- [LW04] Jian-Guo Liu and Wei-Cheng Wang. Energy and helicity preserving schemes for hydro- and magnetohydrodynamics flows with symmetry. *Journal of Computational Physics*, 200(1):8–33, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001287>.

LeBars:2006:SBA

- [LW06] Michael Le Bars and M. Grae Worster. Solidification of a binary alloy: Finite-element, single-domain simulation and new benchmark solutions. *Journal of Com-*

putational Physics, 216(1):247–263, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005504>.

Liu:2007:FSB

- [LW07] Hailiang Liu and Zhongming Wang. A field-space-based level set method for computing multi-valued solutions to 1D Euler–Poisson equations. *Journal of Computational Physics*, 225(1):591–614, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006103>.

Liu:2009:BBB

- [LW09] Hailiang Liu and Zhongming Wang. A Bloch band based level set method for computing the semiclassical limit of Schrödinger equations. *Journal of Computational Physics*, 228(9):3326–3344, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000382>.

Lemons:2009:SAC

- [LWDA09] Don S. Lemons, Dan Winske, William Daughton, and Brian Albright. Small-angle Coulomb collision model for particle-in-cell simulations. *Journal of Computational Physics*, 228(5):1391–1403, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005615>.

Lu:2000:FET

- [LWEM00] Mingyu Lu, Jianguo Wang, A. Arif Ergin, and Eric Michielssen. Fast evaluation of two-dimensional transient wave fields. *Journal of Computational Physics*, 158(2):161–185, March 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964070>.

Liu:2008:EBS

- [LWF⁺08] Bin Liu, Jizeng Wang, Xiaojun Fan, Yong Kong, and Huajian Gao. An effective bead-spring model for polymer simulation.

Journal of Computational Physics, 227(5):2794–2807, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005049>.

Lee:2003:ARD

- [LWG03] Steven L. Lee, Carol S. Woodward, and Frank Graziani. Analyzing radiation diffusion using time-dependent sensitivity-based techniques. *Journal of Computational Physics*, 192(1):211–230, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003723>.

Le:2009:IIB

- [LWP⁺09] D. V. Le, J. White, J. Peraire, K. M. Lim, and B. C. Khoo. An implicit immersed boundary method for three-dimensional fluid-membrane interactions. *Journal of Computational Physics*, 228(22):8427–8445, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004574>.

Lei:2004:AUD

- [LWW04] Hong Lei, Lian-Ze Wang, and Zi-Niu Wu. Applications of upwind and downwind schemes for calculating electrical conditions in a wire-plate electrostatic precipitator. *Journal of Computational Physics*, 193(2):697–707, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300456X>.

Lian:2000:GKS

- [LX00] Y. S. Lian and K. Xu. A gas-kinetic scheme for multicomponent flows and its application in chemical reactions. *Journal of Computational Physics*, 163(2):349–375, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965719>.

Lin:2007:FDS

- [LX07a] Yumin Lin and Chuanju Xu. Finite difference/spectral approximations for the time-fractional diffusion equation. *Jour-*

nal of Computational Physics, 225(2):1533–1552, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000678>.

Liu:2007:RKD

- [LX07b] Hongwei Liu and Kun Xu. A Runge–Kutta discontinuous Galerkin method for viscous flow equations. *Journal of Computational Physics*, 224(2):1223–1242, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005730>.

Li:2009:GPC

- [LX09] Jia Li and Dongbin Xiu. A generalized polynomial chaos based ensemble Kalman filter with high accuracy. *Journal of Computational Physics*, 228(15):5454–5469, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002137>.

Lian:2009:SLT

- [LXM09] Chenzhou Lian, Guoping Xia, and Charles L. Merkle. Solution-limited time stepping to enhance reliability in CFD applications. *Journal of Computational Physics*, 228(13):4836–4857, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001697>.

Lo:2004:ALE

- [LY04] D. C. Lo and D. L. Young. Arbitrary Lagrangian–Eulerian finite element analysis of free surface flow using a velocity-vorticity formulation. *Journal of Computational Physics*, 195(1):175–201, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005163>.

Liu:2006:LDG

- [LY06] Hailiang Liu and Jue Yan. A local discontinuous Galerkin method for the Korteweg–de Vries equation with boundary effect. *Journal of Computational Physics*, 215(1):197–218, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004857>.

Lakoba:2007:GPI

- [LY07a] T. I. Lakoba and J. Yang. A generalized Petviashvili iteration method for scalar and vector Hamiltonian equations with arbitrary form of nonlinearity. *Journal of Computational Physics*, 226(2):1668–1692, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002562>.

Lakoba:2007:MET

- [LY07b] T. I. Lakoba and J. Yang. A mode elimination technique to improve convergence of iteration methods for finding solitary waves. *Journal of Computational Physics*, 226(2):1693–1709, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002641>.

Lin:2009:HRF

- [LYC09] Chin-Tien Lin, Jia-Yi Yeh, and Jiun-Yeu Chen. High resolution finite volume scheme for the quantum hydrodynamic equations. *Journal of Computational Physics*, 228(5):1713–1732, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005901>.

Lynch:2008:OCW

- [Lyn08] Peter Lynch. The origins of computer weather prediction and climate modeling. *Journal of Computational Physics*, 227(7):3431–3444, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000952>.

Li:2004:SGK

- [LZ04] Zhi-Hui Li and Han-Xin Zhang. Study on gas kinetic unified algorithm for flows from rarefied transition to continuum. *Journal of Computational Physics*, 193(2):708–738, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004571>.

LeRoux:2007:CSE

- [LZ07] S. Le Roux and G. Zérah. Convergence stability and estimator in orbital free electronic structure calculation on a grid at finite temperature. *Journal of Computational Physics*, 226(2):2063–2077, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002781>.

Leung:2009:GBPb

- [LZ09a] Shingyu Leung and Hongkai Zhao. A grid based particle method for evolution of open curves and surfaces. *Journal of Computational Physics*, 228(20):7706–7728, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900391X>.

Leung:2009:GBPa

- [LZ09b] Shingyu Leung and Hongkai Zhao. A grid based particle method for moving interface problems. *Journal of Computational Physics*, 228(8):2993–3024, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000138>.

Li:2009:GKN

- [LZ09c] Zhi-Hui Li and Han-Xin Zhang. Gas-kinetic numerical studies of three-dimensional complex flows on spacecraft re-entry. *Journal of Computational Physics*, 228(4):1116–1138, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005408>.

Lu:2004:DGM

- [LZC04] Tiao Lu, Pingwen Zhang, and Wei Cai. Discontinuous Galerkin methods for dispersive and lossy Maxwell's equations and PML boundary conditions. *Journal of Computational Physics*, 200(2):549–580, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001792>.

Lv:2006:EPU

- [LZH⁺06] X. Lv, Y. Zhao, X. Y. Huang, G. H. Xia, and Z. J. Wang. An efficient parallel/unstructured-multigrid preconditioned implicit method for simulating 3D unsteady compressible flows with moving objects. *Journal of Computational Physics*, 215(2):661–690, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005103>.

Lv:2007:MFI

- [LZH⁺07] X. Lv, Y. Zhao, X. Y. Huang, G. H. Xia, and X. H. Su. A matrix-free implicit unstructured multigrid finite volume method for simulating structural dynamics and fluid-structure interaction. *Journal of Computational Physics*, 225(1):120–144, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005808>.

Lee:2003:ILP

- [LZL03] Jeonghwa Lee, Jun Zhang, and Cai-Cheng Lu. Incomplete LU preconditioning for large scale dense complex linear systems from electromagnetic wave scattering problems. *Journal of Computational Physics*, 185(1):158–175, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000529>.

Lee:2009:AMF

- [LZT09] S. H. Lee, H. Zhou, and H. A. Tchelepi. Adaptive multiscale finite-volume method for nonlinear multiphase transport in heterogeneous formations. *Journal of Computational Physics*, 228(24):9036–9058, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900494X>.

Ma:2005:MLP

- [Ma05] Q. W. Ma. Meshless local Petrov–Galerkin method for two-dimensional nonlinear water wave problems. *Journal of Computational Physics*, 205(2):611–625, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004826>.

Macdonald:2000:CPN

- [Mac00] J. Ross Macdonald. Comparison of parametric and non-parametric methods for the analysis and inversion of immittance data: Critique of earlier work. *Journal of Computational Physics*, 157(1):280–301, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963787>.

Macrossan:2001:DFS

- [Mac01] M. N. Macrossan. ν -DSMC: a fast simulation method for rarefied flow. *Journal of Computational Physics*, 173(2):600–619, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968986>.

Macrossan:2003:DG V

- [Mac03] M. N. Macrossan. μ -DSMC: a general viscosity method for rarefied flow. *Journal of Computational Physics*, 185(2):612–627, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000093>.

Machorro:2007:DGF

- [Mac07] Eric Machorro. Discontinuous Galerkin finite element method applied to the 1-D spherical neutron transport equation. *Journal of Computational Physics*, 223(1):67–81, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004244>.

Madasu:2005:CIF

- [Mad05] Srinath Madasu. Capillary impregnation in a flexible slit: a finite element formulation. *Journal of Computational Physics*, 206(1):277–301, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005133>.

Madzvamuse:2006:TSS

- [Mad06] Anotida Madzvamuse. Time-stepping schemes for moving grid finite elements applied to reaction-diffusion systems on fixed and growing domains. *Journal of Computational Physics*, 214(1):239–263, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500433X>.

Mainland:2001:LST

- [Mai01] G. B. Mainland. Logarithmic singularities in two-body, bound-state integral equations. *Journal of Computational Physics*, 174(2):852–869, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969414>.

Mainland:2003:STB

- [Mai03] G. B. Mainland. Solving the two-body, bound-state Bethe–Salpeter equation. *Journal of Computational Physics*, 192(1):21–35, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003450>.

Mainland:2004:RBC

- [Mai04] G. B. Mainland. The role of boundary conditions in solving finite-energy, two-body, bound-state Bethe–Salpeter equations. *Journal of Computational Physics*, 197(2):610–623, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006545>.

Maire:2009:HOcb

- [Mai09a] Pierre-Henri Maire. A high-order cell-centered Lagrangian scheme for compressible fluid flows in two-dimensional cylindrical geometry. *Journal of Computational Physics*, 228(18):6882–6915, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003283>.

Maire:2009:HOCa

- [Mai09b] Pierre-Henri Maire. A high-order cell-centered Lagrangian scheme for two-dimensional compressible fluid flows on unstructured meshes. *Journal of Computational Physics*, 228(7):2391–2425, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006359>.

Mussa:2009:LBS

- [MAL09] Alberto Mussa, Pietro Asinari, and Li-Shi Luo. Lattice Boltzmann simulations of 2D laminar flows past two tandem cylinders. *Journal of Computational Physics*, 228(4):983–999, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005342>.

Mandel:2002:ISM

- [Man02] Jan Mandel. An iterative substructuring method for coupled fluid-solid acoustic problems. *Journal of Computational Physics*, 177(1):95–116, March 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297004X>.

Morel:2006:SDS

- [MAN⁺06] Jim E. Morel, B. Todd Adams, Taewan Noh, John M. McGhee, Thomas M. Evans, and Todd J. Urbatsch. Spatial discretizations for self-adjoint forms of the radiative transfer equations. *Journal of Computational Physics*, 214(1):12–40, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004213>.

Martinsson:2006:FEE

- [Mar06] Per-Gunnar Martinsson. Fast evaluation of electro-static interactions in multi-phase dielectric media. *Journal of Computational Physics*, 211(1):289–299, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002755>.

- [Mar09] J. S. Marshall. Discrete-element modeling of particulate aerosol flows. *Journal of Computational Physics*, 228(5):1541–1561, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800572X>. **Marshall:2009:DEM**
- [Mav02] Dimitri J. Mavriplis. An assessment of linear versus nonlinear multigrid methods for unstructured mesh solvers. *Journal of Computational Physics*, 175(1):302–325, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969487>. **Mavriplis:2002:ALV**
- [Maz06] Sandip Mazumder. Critical assessment of the stability and convergence of the equations of multi-component diffusion. *Journal of Computational Physics*, 212(2):383–392, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003554>. **Mazumder:2006:CAS**
- [MB04] Richard C. Martineau and Ray A. Berry. The pressure-corrected ICE finite element method for compressible flows on unstructured meshes. *Journal of Computational Physics*, 198(2):659–685, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000580>. **Martineau:2004:PCI**
- [MBM01] J. A. Maruhn, T. Bürvenich, and D. G. Madland. Calculating the Fierz transformation for higher orders. *Journal of Computational Physics*, 169(1):238–245, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967270>. **Maruhn:2001:CFT**
- [MBP00] Annamaria Mazzia, Luca Bergamaschi, and Mario Putti. A time-splitting technique for the advection-dispersion equa-
- Mazzia:2000:TST**

tion in groundwater. *Journal of Computational Physics*, 157 (1):181–198, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963702>.

Moureau:2007:ESI

- [MBP07] V. Moureau, C. Bérat, and H. Pitsch. An efficient semi-implicit compressible solver for large-eddy simulations. *Journal of Computational Physics*, 226(2):1256–1270, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700232X>.

McKinley:2003:CIS

- [MBS03] Michael Scott McKinley, Eugene D. Brooks III, and Abraham Szoke. Comparison of implicit and symbolic implicit Monte Carlo line transport with frequency weight vector extension. *Journal of Computational Physics*, 189(1):330–349, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002134>.

Martin:2000:CCA

- [MC00a] Daniel F. Martin and Phillip Colella. A cell-centered adaptive projection method for the incompressible Euler equations. *Journal of Computational Physics*, 163(2):271–312, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965756>.

Mohseni:2000:NTP

- [MC00b] Kamran Mohseni and Tim Colonius. Numerical treatment of polar coordinate singularities. *Journal of Computational Physics*, 157(2):787–795, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963829>.

Miller:2001:HOE

- [MC01] G. H. Miller and P. Colella. A high-order Eulerian Godunov method for elastic-plastic flow in solids. *Journal of Computational Physics*, 167(1):131–176, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966658>.

Miller:2002:CTD

- [MC02] G. H. Miller and P. Colella. A conservative three-dimensional Eulerian method for coupled solid-fluid shock capturing. *Journal of Computational Physics*, 183(1):26–82, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971585>.

Metcalfe:2003:SSM

- [MC03] Travis S. Metcalfe and Paul Charbonneau. Stellar structure modeling using a parallel genetic algorithm for objective global optimization. *Journal of Computational Physics*, 185(1):176–193, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000530>.

Ma:2004:PCR

- [MC04] Yuanle Ma and Zhangxin Chen. Parallel computation for reservoir thermal simulation of multicomponent and multiphase fluid flow. *Journal of Computational Physics*, 201(1):224–237, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002104>.

Martin:2006:PIM

- [MC06a] M. Pino Martín and Graham V. Candler. A parallel implicit method for the direct numerical simulation of wall-bounded compressible turbulence. *Journal of Computational Physics*, 215(1):153–171, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004833>.

Mehra:2006:HVI

- [MC06b] Vishal Mehra and Shashank Chaturvedi. High velocity impact of metal sphere on thin metallic plates: a comparative smooth particle hydrodynamics study. *Journal of Computational Physics*, 212(1):318–337, February 10, 2006. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003232>.

Marry:2007:TDA

- [MC07a] V. Marry and G. Ciccotti. Trotter derived algorithms for molecular dynamics with constraints: Velocity Verlet revisited. *Journal of Computational Physics*, 222(1):428–440, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003603>.

Miniati:2007:BSA

- [MC07b] Francesco Miniati and Phillip Colella. Block structured adaptive mesh and time refinement for hybrid, hyperbolic + N -body systems. *Journal of Computational Physics*, 227(1):400–430, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003385>.

Miniati:2007:MHO

- [MC07c] Francesco Miniati and Phillip Colella. A modified higher order Godunov’s scheme for stiff source conservative hydrodynamics. *Journal of Computational Physics*, 224(2):519–538, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004803>.

Medale:2009:PCI

- [MC09] Marc Medale and Bruno Cochelin. A parallel computer implementation of the asymptotic numerical method to study thermal convection instabilities. *Journal of Computational Physics*, 228(22):8249–8262, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004215>.

Mangeney:2002:NSI

- [MCCT02] A. Mangeney, F. Califano, C. Cavazzoni, and P. Travnicek. A numerical scheme for the integration of the Vlasov–Maxwell system of equations. *Journal of Computational*

Physics, 179(2):495–538, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970713>.

Martin:2008:CCA

- [MCG08] Daniel F. Martin, Phillip Colella, and Daniel Graves. A cell-centered adaptive projection method for the incompressible Navier–Stokes equations in three dimensions. *Journal of Computational Physics*, 227(3):1863–1886, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004366>.

McCorquodale:2004:NCL

- [MCGV04] Peter McCorquodale, Phillip Colella, David P. Grote, and Jean-Luc Vay. A node-centered local refinement algorithm for Poisson’s equation in complex geometries. *Journal of Computational Physics*, 201(1):34–60, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001901>.

McCorquodale:2001:CGE

- [MCJ01] Peter McCorquodale, Phillip Colella, and Hans Johansen. A Cartesian grid embedded boundary method for the heat equation on irregular domains. *Journal of Computational Physics*, 173(2):620–635, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969001>.

Mahesh:2004:NML

- [MCM04] K. Mahesh, G. Constantinescu, and P. Moin. A numerical method for large-eddy simulation in complex geometries. *Journal of Computational Physics*, 197(1):215–240, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006272>.

Minev:2003:FET

- [MCN03] P. D. Minev, T. Chen, and K. Nandakumar. A finite element technique for multifluid incompressible flow using Eule-

rian grids. *Journal of Computational Physics*, 187(1):255–273, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000986>.

Minier:2003:CAE

- [MCP03] J.-P. Minier, R. Cao, and S. B. Pope. Comment on the article “An effective particle tracing scheme on structured/unstructured grids in hybrid finite volume/PDF Monte Carlo methods” by Li and Modest. *Journal of Computational Physics*, 186(1):356–358, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000068>. See [LM01, LM03a].

Moukalled:2001:HRP

- [MD01] F. Moukalled and M. Darwish. A high-resolution pressure-based algorithm for fluid flow at all speeds. *Journal of Computational Physics*, 168(1):101–130, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096683X>.

Malarkey:2002:URC

- [MD02] J. Malarkey and A. G. Davies. Use of Routh’s correction in the cloud-in-cell discrete vortex method. *Journal of Computational Physics*, 181(2):753–759, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971639>.

Magin:2004:TAP

- [MD04] Thierry E. Magin and Gérard Degrez. Transport algorithms for partially ionized and unmagnetized plasmas. *Journal of Computational Physics*, 198(2):424–449, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000361>.

Mlacnik:2006:UGO

- [MD06] Martin J. Mlacnik and Louis J. Durlofsky. Unstructured grid optimization for improved monotonicity of discrete solutions of elliptic equations with highly anisotropic coeffi-

cients. *Journal of Computational Physics*, 216(1):337–361, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005553>.

Mittal:2008:VSI

- [MDB⁺08] R. Mittal, H. Dong, M. Bozkurtas, F. M. Najjar, A. Vargas, and A. von Loebbecke. A versatile sharp interface immersed boundary method for incompressible flows with complex boundaries. *Journal of Computational Physics*, 227(10):4825–4852, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000235>.

Metzner:2007:GEM

- [MDJS07] P. Metzner, E. Dittmer, T. Jahnke, and Ch. Schütte. Generator estimation of Markov jump processes. *Journal of Computational Physics*, 227(1):353–375, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003361>.

Moresi:2003:LIP

- [MDM03] L. Moresi, F. Dufour, and H.-B. Mühlhaus. A Lagrangian integration point finite element method for large deformation modeling of viscoelastic geomaterials. *Journal of Computational Physics*, 184(2):476–497, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000311>.

Munz:2007:LAP

- [MDR07] Claus-Dieter Munz, Michael Dumbser, and Sabine Roller. Linearized acoustic perturbation equations for low Mach number flow with variable density and temperature. *Journal of Computational Physics*, 224(1):352–364, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700085X>.

Moukalled:2003:PBA

- [MDS03] F. Moukalled, M. Darwish, and B. Sekar. A pressure-based algorithm for multi-phase flow at all speeds. *Journal of Computational Physics*, 190(2):550–571, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002973>.

Mendez:2009:AMP

- [ME09] S. Mendez and J. D. Eldredge. Acoustic modeling of perforated plates with bias flow for large-eddy simulations. *Journal of Computational Physics*, 228(13):4757–4772, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001624>.

Mead:2004:SWE

- [Mea04] J. L. Mead. The shallow water equations in Lagrangian coordinates. *Journal of Computational Physics*, 200(2):654–669, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001834>.

Marinescu:2002:TSM

- [MEG02] Dorin Marinescu, Aude Espesset, and Cecil P. Grünfeld. Tests of a simulation method for Boltzmann-like models with chemical reactions. *Journal of Computational Physics*, 175(1):225–248, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969402>.

Mehta:2004:UWP

- [Meh04] Prashant G. Mehta. A unified well-posed computational approach for the 2D Orr–Sommerfeld problem. *Journal of Computational Physics*, 199(2):541–557, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000944>.

Mao:2003:DLD

- [MEKS03] Deming Mao, Jack R. Edwards, Andrey V. Kuznetsov, and Ravi K. Srivastava. Development of low-diffusion flux-splitting

methods for dense gas-solid flows. *Journal of Computational Physics*, 185(1):100–119, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000499>.

McClarren:2008:SIT

- [MELD08] Ryan G. McClarren, Thomas M. Evans, Robert B. Lowrie, and Jeffery D. Densmore. Semi-implicit time integration for P_N thermal radiative transfer. *Journal of Computational Physics*, 227(16):7561–7586, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002489>.

Mencinger:2004:NSM

- [Men04] Jure Mencinger. Numerical simulation of melting in two-dimensional cavity using adaptive grid. *Journal of Computational Physics*, 198(1):243–264, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000269>.

Michoski:2009:QHT

- [MESV09] C. Michoski, J. A. Evans, P. G. Schmitz, and A. Vasseur. Quantum hydrodynamics with trajectories: The nonlinear conservation form mixed/discontinuous Galerkin method with applications in chemistry. *Journal of Computational Physics*, 228(23):8589–8608, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004483>.

Meitz:2000:CDS

- [MF00] Hubert L. Meitz and Hermann F. Fasel. A compact-difference scheme for the Navier–Stokes equations in vorticity-velocity formulation. *Journal of Computational Physics*, 157(1):371–403, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963878>.

Matsuo:2001:DCF

- [MF01] Takayasu Matsuo and Daisuke Furihata. Dissipative or conservative finite-difference schemes for complex-valued nonlinear partial differential equations. *Journal of Computational Physics*, 171(2):425–447, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967750>.

Moinier:2002:SAP

- [MG02] P. Moinier and M. B. Giles. Stability analysis of preconditioned approximations of the Euler equations on unstructured meshes. *Journal of Computational Physics*, 178(2):498–519, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970385>.

Marzouk:2005:MCO

- [MG05a] Youssef M. Marzouk and Ahmed F. Ghoniem. *K*-means clustering for optimal partitioning and dynamic load balancing of parallel hierarchical *N*-body simulations. *Journal of Computational Physics*, 207(2):493–528, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000380>.

Murrone:2005:FER

- [MG05b] Angelo Murrone and Hervé Guillard. A five equation reduced model for compressible two phase flow problems. *Journal of Computational Physics*, 202(2):664–698, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003018>.

Min:2006:SOA

- [MG06] Chohong Min and Frédéric Gibou. A second order accurate projection method for the incompressible Navier–Stokes equations on non-graded adaptive grids. *Journal of Computational Physics*, 219(2):912–929, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003366>.

Mayo:2007:FOA

- [MG07a] Anita Mayo and Anne Greenbaum. Fourth order accurate evaluation of integrals in potential theory on exterior 3D regions. *Journal of Computational Physics*, 220(2):900–914, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002671>.

Miller:2007:FAR

- [MG07b] David J. Miller and Avijit Ghosh. A fully adaptive reaction-diffusion integration scheme with applications to systems biology. *Journal of Computational Physics*, 226(2):1509–1531, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002471>.

Min:2007:GII

- [MG07c] Chohong Min and Frédéric Gibou. Geometric integration over irregular domains with application to level-set methods. *Journal of Computational Physics*, 226(2):1432–1443, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002410>.

Min:2007:SOA

- [MG07d] Chohong Min and Frédéric Gibou. A second order accurate level set method on non-graded adaptive Cartesian grids. *Journal of Computational Physics*, 225(1):300–321, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005912>.

Min:2008:RSO

- [MG08] Chohong Min and Frédéric Gibou. Robust second-order accurate discretizations of the multi-dimensional Heaviside and Dirac delta functions. *Journal of Computational Physics*, 227(22):9686–9695, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003999>.

Min:2006:SCF

- [MGC06] Chohong Min, Frédéric Gibou, and Hector D. Cenicerros. A supra-convergent finite difference scheme for the variable coefficient Poisson equation on non-graded grids. *Journal of Computational Physics*, 218(1):123–140, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000635>.

Marchandise:2007:SFE

- [MGCR07] Emilie Marchandise, Philippe Geuzaine, Nicolas Chevaugeon, and Jean-François Remacle. A stabilized finite element method using a discontinuous level set approach for the computation of bubble dynamics. *Journal of Computational Physics*, 225(1):949–974, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000125>.

Marshall:2000:VTL

- [MGGH00] J. S. Marshall, J. R. Grant, A. A. Gossler, and S. A. Huyer. Vorticity transport on a Lagrangian tetrahedral mesh. *Journal of Computational Physics*, 161(1):85–113, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964908>.

Murillo:2009:CNS

- [MGNB09] J. Murillo, P. García-Navarro, and J. Burguete. Conservative numerical simulation of multi-component transport in two-dimensional unsteady shallow water flow. *Journal of Computational Physics*, 228(15):5539–5573, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002290>.

Meyers:2007:CEA

- [MGS07] J. Meyers, B. J. Geurts, and P. Sagaut. A computational error-assessment of central finite-volume discretizations in large-eddy simulation using a Smagorinsky model. *Journal of Computational Physics*, 227(1):156–173, November 10,

2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003257>.

McMahon:2009:DAP

- [MGS09] Jeffrey M. McMahon, Stephen K. Gray, and George C. Schatz. A discrete action principle for electrodynamics and the construction of explicit symplectic integrators for linear, non-dispersive media. *Journal of Computational Physics*, 228(9):3421–3432, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000448>.

McClarren:2008:SET

- [MHB08] Ryan G. McClarren, James Paul Holloway, and Thomas A. Brunner. On solutions to the P_n equations for thermal radiative transfer. *Journal of Computational Physics*, 227(5):2864–2885, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005153>.

Munts:2007:MBM

- [MHdB07] E. A. Munts, S. J. Hulshoff, and R. de Borst. A modal-based multiscale method for large eddy simulation. *Journal of Computational Physics*, 224(1):389–402, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001015>.

Montijn:2006:AGR

- [MHE06] C. Montijn, W. Hundsdorfer, and U. Ebert. An adaptive grid refinement strategy for the simulation of negative streamers. *Journal of Computational Physics*, 219(2):801–835, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002178>.

Mattsson:2008:SAW

- [MHI08] Ken Mattsson, Frank Ham, and Gianluca Iaccarino. Stable and accurate wave-propagation in discontinuous media.

Journal of Computational Physics, 227(19):8753–8767, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003434>.

Monkola:2008:THE

- [MHPR08] Sanna Mönkölä, Erkki Heikkola, Anssi Pennanen, and Tuomo Rossi. Time-harmonic elasticity with controllability and higher-order discretization methods. *Journal of Computational Physics*, 227(11):5513–5534, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000867>.

Morel:2001:LSO

- [MHS01] J. E. Morel, Michael L. Hall, and Mikhail J. Shashkov. A local support-operators diffusion discretization scheme for hexahedral meshes. *Journal of Computational Physics*, 170(1):338–372, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967361>.

Merks:2002:MPM

- [MHS02] R. M. H. Merks, A. G. Hoekstra, and P. M. A. Sloot. The moment propagation method for advection-diffusion in the lattice Boltzmann method: Validation and Péclet number limits. *Journal of Computational Physics*, 183(2):563–576, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972098>.

Monaghan:2005:SUS

- [MHW05] Joseph J. Monaghan, Herbert E. Huppert, and M. Grae Worster. Solidification using smoothed particle hydrodynamics. *Journal of Computational Physics*, 206(2):684–705, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000112>.

Mieussens:2000:DVM

- [Mie00] Luc Mieussens. Discrete-velocity models and numerical schemes for the Boltzmann–BGK equation in plane and axisymmetric geometries. *Journal of Computational*

Physics, 162(2):429–466, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965483>.

Mignone:2007:SAR

- [Mig07] A. Mignone. A simple and accurate Riemann solver for isothermal MHD. *Journal of Computational Physics*, 225(2):1427–1441, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000617>.

Miller:2004:IRS

- [Mil04] G. H. Miller. An iterative Riemann solver for systems of hyperbolic conservation laws, with application to hyperelastic solid mechanics. *Journal of Computational Physics*, 193(1):198–225, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004273>.

Milotti:2005:SFP

- [Mil05] Edoardo Milotti. Sine-fit procedure for unevenly sampled, multiply clocked signals. *Journal of Computational Physics*, 202(1):134–149, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002700>.

Milotti:2006:MBF

- [Mil06] Edoardo Milotti. Model-based fit procedure for power-law-like spectra. *Journal of Computational Physics*, 217(2):834–844, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600043X>. See erratum [Mil07].

Milotti:2007:EMB

- [Mil07] E. Milotti. Erratum to “Model-based fit procedure for power-law-like spectra” [J. Comput. Phys. **217** (2006) 834–844]. *Journal of Computational Physics*, 227(2):1608, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003798>. See [Mil06].

Miller:2008:IBP

- [Mil08] G. H. Miller. An iterative boundary potential method for the infinite domain Poisson problem with interior Dirichlet boundaries. *Journal of Computational Physics*, 227(16):7917–7928, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002684>.

Min:2003:SIA

- [Min03] Chohong Min. Simplicial isosurfacing in arbitrary dimension and codimension. *Journal of Computational Physics*, 190(1):295–310, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002754>.

Min:2004:LLS

- [Min04] Chohong Min. Local level set method in high dimension and codimension. *Journal of Computational Physics*, 200(1):368–382, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001718>.

Miniati:2007:GGM

- [Min07] Francesco Miniati. Glimm–Godunov’s method for cosmic-ray-hydrodynamics. *Journal of Computational Physics*, 227(1):776–796, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003592>.

Mitin:2000:NMC

- [Mit00] Alexander V. Mitin. New methods for calculations of the lowest eigenvalues of the real symmetric generalized eigenvalue problem. *Journal of Computational Physics*, 161(2):653–667, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965203>.

McMullen:2006:CEN

- [MJ06] M. S. McMullen and A. Jameson. The computational efficiency of non-linear frequency domain methods. *Journal of Computational Physics*, 212(2):637–661, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003499>.

Meyer:2007:CIO

- [MJ07] D. W. Meyer and P. Jenny. Consistent inflow and outflow boundary conditions for transported probability density function methods. *Journal of Computational Physics*, 226(2):1859–1873, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002665>.

Ma:2009:MMM

- [MJ09a] Jingtang Ma and Yingjun Jiang. Moving mesh methods for blowup in reaction-diffusion equations with traveling heat source. *Journal of Computational Physics*, 228(18):6977–6990, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003337>.

Meyer:2009:MMT

- [MJ09b] Daniel W. Meyer and Patrick Jenny. Micromixing models for turbulent flows. *Journal of Computational Physics*, 228(4):1275–1293, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005469>.

Matringe:2006:RST

- [MJT06] Sébastien F. Matringe, Ruben Juanes, and Hamdi A. Tchelepi. Robust streamline tracing for the simulation of porous media flow on general triangular and quadrilateral grids. *Journal of Computational Physics*, 219(2):992–1012, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003408>.

Milano:2002:CGA

- [MK02a] Michele Milano and Petros Koumoutsakos. A clustering genetic algorithm for cylinder drag optimization. *Journal of Computational Physics*, 175(1):79–107, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968822>.

Milano:2002:NNM

- [MK02b] Michele Milano and Petros Koumoutsakos. Neural network modeling for near Wall turbulent flow. *Journal of Computational Physics*, 182(1):1–26, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971469>.

Mousseau:2003:NPB

- [MK03] V. A. Mousseau and D. A. Knoll. New physics-based preconditioning of implicit methods for non-equilibrium radiation diffusion. *Journal of Computational Physics*, 190(1):42–51, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002523>.

Mocken:2004:QDR

- [MK04a] Guido R. Mocken and Christoph H. Keitel. Quantum dynamics of relativistic electrons. *Journal of Computational Physics*, 199(2):558–588, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000956>.

Muller:2004:AEC

- [MK04b] Jens Müller and Jan G. Korvink. Adaptive error control in multi-physical thin-structure MEMS FE-simulation. *Journal of Computational Physics*, 196(1):145–172, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005916>.

Miyoshi:2005:MSH

- [MK05] Takahiro Miyoshi and Kanya Kusano. A multi-state HLL approximate Riemann solver for ideal magnetohydrodynamics.

Journal of Computational Physics, 208(1):315–344, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001142>.

Muradoglu:2006:AGM

- [MK06] Metin Muradoğlu and Arif Doruk Kayaalp. An auxiliary grid method for computations of multiphase flows in complex geometries. *Journal of Computational Physics*, 214(2):858–877, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004766>.

Munsky:2007:MTI

- [MK07] Brian Munsky and Mustafa Khammash. A multiple time interval finite state projection algorithm for the solution to the chemical master equation. *Journal of Computational Physics*, 226(1):818–835, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002100>.

Ma:2008:VRR

- [MK08a] Lin Ma and William S. Klug. Viscous regularization and r-adaptive remeshing for finite element analysis of lipid membrane mechanics. *Journal of Computational Physics*, 227(11):5816–5835, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001150>.

Mehra:2008:AWC

- [MK08b] Mani Mehra and Nicholas K.-R. Kevlahan. An adaptive wavelet collocation method for the solution of partial differential equations on the sphere. *Journal of Computational Physics*, 227(11):5610–5632, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001010>.

McDonough:2006:ADS

- [MKKY06] J. M. McDonough, I. Kunadian, R. R. Kumar, and T. Yang. An alternative discretization and solution procedure for

the dual phase-lag equation. *Journal of Computational Physics*, 219(1):163–171, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001458>.

Medyanik:2006:DRM

- [MKL06] Sergey N. Medyanik, Eduard G. Karpov, and Wing Kam Liu. Domain reduction method for atomistic simulations. *Journal of Computational Physics*, 218(2):836–859, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001355>.

Marella:2005:SIC

- [MKLU05] S. Marella, S. Krishnan, H. Liu, and H. S. Udaykumar. Sharp interface Cartesian grid method I: An easily implemented technique for 3D moving boundary computations. *Journal of Computational Physics*, 210(1):1–31, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001956>.

Mansfield:1999:DCV

- [MKM99] John R. Mansfield, Omar M. Knio, and Charles Meneveau. Dynamic LES of colliding vortex rings using a 3D vortex method. *Journal of Computational Physics*, 152(1):305–345, June 10, 1999. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199962587>. See erratum [MKM04].

Mansfield:2004:CDC

- [MKM04] John R. Mansfield, Omar M. Knio, and Charles Meneveau. Corrigendum to “Dynamic LES of colliding vortex rings using a 3D vortex method” [J. Comp. Phys. **152** (1999) 305–345]. *Journal of Computational Physics*, 197(2):779–780, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006569>. See [MKM99].

Maple:2004:AHB

- [MKOW04] Raymond C. Maple, Paul I. King, Paul D. Orkwis, and J. Mitch Wolff. Adaptive harmonic balance method for nonlinear time-periodic flows. *Journal of Computational Physics*, 193(2):620–641, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004376>.

Mousseau:2000:PBP

- [MKR00] V. A. Mousseau, D. A. Knoll, and W. J. Rider. Physics-based preconditioning and the Newton–Krylov method for non-equilibrium radiation diffusion. *Journal of Computational Physics*, 160(2):743–765, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096488X>.

Mazumder:2001:TRS

- [ML01a] Sandip Mazumder and Samuel A. Lowry. The treatment of reacting surfaces for finite-volume schemes on unstructured meshes. *Journal of Computational Physics*, 173(2):512–526, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968901>.

Moeleker:2001:LMT

- [ML01b] Piet Moeleker and Anthony Leonard. Lagrangian methods for the tensor-diffusivity subgrid model. *Journal of Computational Physics*, 167(1):1–21, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966695>.

Miller:2004:EDM

- [ML04] S. Miller and S. Luding. Event-driven molecular dynamics in parallel. *Journal of Computational Physics*, 193(1):306–316, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004339>.

Macklin:2005:EIG

- [ML05] Paul Macklin and John Lowengrub. Evolving interfaces via gradients of geometry-dependent interior Poisson problems: application to tumor growth. *Journal of Computational Physics*, 203(1):191–220, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003249>.

Macklin:2006:IGA

- [ML06a] Paul Macklin and John Lowengrub. An improved geometry-aware curvature discretization for level set methods: Application to tumor growth. *Journal of Computational Physics*, 215(2):392–401, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005152>.

Moryossef:2006:UPI

- [ML06b] Y. Moryossef and Y. Levy. Unconditionally positive implicit procedure for two-equation turbulence models: Application to k - ω turbulence models. *Journal of Computational Physics*, 220(1):88–108, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002233>.

McClarren:2008:ESL

- [ML08] Ryan G. McClarren and Robert B. Lowrie. The effects of slope limiting on asymptotic-preserving numerical methods for hyperbolic conservation laws. *Journal of Computational Physics*, 227(23):9711–9726, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004002>.

Min:2006:FSS

- [MLFG06] Mi-Sun Min, Tae-Woo Lee, Paul F. Fischer, and Stephen K. Gray. Fourier spectral simulations and Gegenbauer reconstructions for electromagnetic waves in the presence of a metal nanoparticle. *Journal of Computational Physics*, 213(2):730–747, April 10, 2006. CODEN JCTPAH. ISSN

0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004146>.

Mani:2009:SAB

- [MLM09] Ali Mani, Johan Larsson, and Parviz Moin. Suitability of artificial bulk viscosity for large-eddy simulation of turbulent flows with shocks. *Journal of Computational Physics*, 228(19):7368–7374, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003623>.

Montero:2001:RMA

- [MLS01] Ruben S. Montero, Ignacio M. Llorente, and Manuel D. Salas. Robust multigrid algorithms for the Navier–Stokes equations. *Journal of Computational Physics*, 173(2):412–432, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968639>.

Moureau:2005:NMU

- [MLS⁺05] V. Moureau, G. Lartigue, Y. Sommerer, C. Angelberger, O. Colin, and T. Poinsot. Numerical methods for unsteady compressible multi-component reacting flows on fixed and moving grids. *Journal of Computational Physics*, 202(2):710–736, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003134>.

Mansur:2007:ETD

- [MLSD07] W. J. Mansur, F. S. Loureiro, D. Soares, Jr., and C. Dors. Explicit time-domain approaches based on numerical Green’s functions computed by finite differences — the ExGA family. *Journal of Computational Physics*, 227(1):851–870, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003877>.

Marquez:2001:NIT

- [MM01] Antonio Márquez and Salim Meddahi. New implementation techniques for the exterior Stokes problem in the plane. *Journal of Computational Physics*, 172(2):685–703, September 20,

2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968482>.

Marquina:2003:FSA

- [MM03] Antonio Marquina and Pep Mulet. A flux-split algorithm applied to conservative models for multicomponent compressible flows. *Journal of Computational Physics*, 185(1):120–138, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000505>.

Madzvamuse:2007:VIN

- [MM07] Anotida Madzvamuse and Philip K. Maini. Velocity-induced numerical solutions of reaction-diffusion systems on continuously growing domains. *Journal of Computational Physics*, 225(1):100–119, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005791>.

Mahalov:2009:VNN

- [MM09] Alex Mahalov and Mohamed Moustauoui. Vertically nested nonhydrostatic model for multiscale resolution of flows in the upper troposphere and lower stratosphere. *Journal of Computational Physics*, 228(4):1294–1311, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800555X>.

Martinez:2008:SPK

- [MMKP08] E. Martínez, J. Marian, M. H. Kalos, and J. M. Perlado. Synchronous parallel kinetic Monte Carlo for continuum diffusion-reaction systems. *Journal of Computational Physics*, 227(8):3804–3823, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700527X>.

Moureau:2007:GFM

- [MMPB07] V. Moureau, P. Minot, H. Pitsch, and C. Bérat. A ghost-fluid method for large-eddy simulations of premixed

combustion in complex geometries. *Journal of Computational Physics*, 221(2):600–614, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003068>.

Marquez:2004:NBF

- [MMS04] A. Márquez, S. Meddahi, and V. Selgas. A new BEM–FEM coupling strategy for two-dimensional fluid-solid interaction problems. *Journal of Computational Physics*, 199(1):205–220, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000828>.

Menshov:2002:IVR

- [MN02] Igor Men’shov and Yoshiaki Nakamura. Implementation of the variational Riemann problem solution for calculating propagation of sound waves in nonuniform flow fields. *Journal of Computational Physics*, 182(1):118–148, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971548>.

Mattsson:2004:SPO

- [MN04] Ken Mattsson and Jan Nordström. Summation by parts operators for finite difference approximations of second derivatives. *Journal of Computational Physics*, 199(2):503–540, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000932>. See corrigendum [MN17].

Mattsson:2006:HOF

- [MN06] Ken Mattsson and Jan Nordström. High order finite difference methods for wave propagation in discontinuous media. *Journal of Computational Physics*, 220(1):249–269, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002300>.

Maire:2009:MSG

- [MN09a] Pierre-Henri Maire and Boniface Nkonga. Multi-scale Godunov-type method for cell-centered discrete Lagrangian

hydrodynamics. *Journal of Computational Physics*, 228(3): 799–821, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800524X>.

Marzouk:2009:DRP

- [MN09b] Youssef M. Marzouk and Habib N. Najm. Dimensionality reduction and polynomial chaos acceleration of Bayesian inference in inverse problems. *Journal of Computational Physics*, 228(6):1862–1902, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006062>.

Mattsson:2017:CSP

- [MN17] Ken Mattsson and Jan Nordström. Corrigendum to “Summation by parts operators for finite difference approximations of second derivatives” [J. Comput. Phys. **199** (2004) 503–540]. *Journal of Computational Physics*, 351(??):535, December 15, 2017. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999117307118>. See [MN04].

Marzouk:2007:SSM

- [MNR07] Youssef M. Marzouk, Habib N. Najm, and Larry A. Rahn. Stochastic spectral methods for efficient Bayesian solution of inverse problems. *Journal of Computational Physics*, 224(2):560–586, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004839>.

Muratov:2006:OGB

- [MO06] C. B. Muratov and V. V. Osipov. Optimal grid-based methods for thin film micromagnetics simulations. *Journal of Computational Physics*, 216(2):637–653, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000040>.

Michalak:2009:APL

- [MOG09] Christopher Michalak and Carl Ollivier-Gooch. Accuracy preserving limiter for the high-order accurate solu-

tion of the Euler equations. *Journal of Computational Physics*, 228(23):8693–8711, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004641>.

Monaghan:2000:STI

- [Mon00] J. J. Monaghan. SPH without a tensile instability. *Journal of Computational Physics*, 159(2):290–311, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964398>.

Moore:2003:IAT

- [Moo03] Peter K. Moore. An incomplete assembly with thresholding algorithm for systems of reaction-diffusion equations in three space dimensions IAT for reaction-diffusion systems. *Journal of Computational Physics*, 189(1):130–158, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002055>.

Moore:2007:SRS

- [Moo07] Peter K. Moore. Solving regularly and singularly perturbed reaction-diffusion equations in three space dimensions. *Journal of Computational Physics*, 224(2):601–615, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005390>.

Munz:2000:DCT

- [MOS⁺00] C.-D. Munz, P. Omnes, R. Schneider, E. Sonnendrücker, and U. Voß. Divergence correction techniques for Maxwell solvers based on a hyperbolic model. *Journal of Computational Physics*, 161(2):484–511, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965070>.

Mottez:2008:GCD

- [Mot08] F. Mottez. A guiding centre direct implicit scheme for magnetized plasma simulations. *Journal of Computational*

Physics, 227(6):3260–3281, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005311>.

Mousseau:2004:IBS

- [Mou04] V. A. Mousseau. Implicitly balanced solution of the two-phase flow equations coupled to nonlinear heat conduction. *Journal of Computational Physics*, 200(1):104–132, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001342>.

Mott:2000:QSS

- [MOvL00] David R. Mott, Elaine S. Oran, and Bram van Leer. A quasi-steady-state solver for the stiff ordinary differential equations of reaction kinetics. *Journal of Computational Physics*, 164(2):407–428, November 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966051>.

Majorana:2001:FDS

- [MP01a] A. Majorana and R. M. Pidatella. A finite difference scheme solving the Boltzmann–Poisson system for semiconductor devices. *Journal of Computational Physics*, 174(2):649–668, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969293>.

Monk:2001:PAC

- [MP01b] Peter Monk and Kevin Parrott. Phase-accuracy comparisons and improved far-field estimates for 3-D edge elements on tetrahedral meshes. *Journal of Computational Physics*, 170(2):614–641, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967531>.

Majorana:2002:FDS

- [MP02] A. Majorana and R. M. Pidatella. A finite difference scheme solving the Boltzmann–Poisson system for semiconductor devices: Volume 174, number 2 (2001), pages 649–668. *Journal*

of Computational Physics, 177(2):450, April 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970312>.

Mehdizadeh:2003:ITD

- [MP03] Omid Z. Mehdizadeh and Marius Paraschivoiu. Investigation of a two-dimensional spectral element method for Helmholtz's equation. *Journal of Computational Physics*, 189(1):111–129, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002043>.

Mazzia:2005:HOG

- [MP05] Annamaria Mazzia and Mario Putti. High order Godunov mixed methods on tetrahedral meshes for density driven flow simulations in porous media. *Journal of Computational Physics*, 208(1):154–174, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000902>.

Manzini:2007:MLE

- [MP07a] Gianmarco Manzini and Mario Putti. Mesh locking effects in the finite volume solution of 2-D anisotropic diffusion equations. *Journal of Computational Physics*, 220(2):751–771, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002580>.

McDermott:2007:PFT

- [MP07b] R. McDermott and S. B. Pope. A particle formulation for treating differential diffusion in filtered density function methods. *Journal of Computational Physics*, 226(1):947–993, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002173>.

McDermott:2008:PER

- [MP08] R. McDermott and S. B. Pope. The parabolic edge reconstruction method (PERM) for Lagrangian particle advection. *Journal of Computational Physics*, 227(11):5447–5491, May

10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000843>.

Muradoglu:2001:HMP

- [MPC01] Metin Muradoğlu, Stephen B. Pope, and David A. Caughey. The hybrid method for the PDF equations of turbulent reactive flows: Consistency conditions and correction algorithms. *Journal of Computational Physics*, 172(2):841–878, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968615>. See corrigendum [MPC02].

Muradoglu:2002:HMP

- [MPC02] Metin Muradoğlu, Stephen B. Pope, and David A. Caughey. The hybrid method for the PDF equations of turbulent reactive flows: Consistency conditions and correction algorithms: Volume **172**, number 2 (2001), pages 841–878. *Journal of Computational Physics*, 178(1):260, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970427>. See [MPC01].

Macaskill:2003:CAQ

- [MPD03] C. Macaskill, W. E. P. Padden, and D. G. Dritschel. The CASL algorithm for quasi-geostrophic flow in a cylinder. *Journal of Computational Physics*, 188(1):232–251, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001657>.

Matheou:2008:VFD

- [MPD08] G. Matheou, C. Pantano, and P. E. Dimotakis. Verification of a fluid-dynamics solver using correlations with linear stability results. *Journal of Computational Physics*, 227(11):5385–5396, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000703>.

Montseny:2008:DTL

- [MPFC08] E. Montseny, S. Pernet, X. Ferrières, and G. Cohen. Dissipative terms and local time-stepping improvements in a

spatial high order discontinuous Galerkin scheme for the time-domain Maxwell's equations. *Journal of Computational Physics*, 227(14):6795–6820, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001836>.

Machiels:2001:PFE

- [MPP01] L. Machiels, J. Peraire, and A. T. Patera. A posteriori finite-element output bounds for the incompressible Navier–Stokes equations: Application to a natural convection problem. *Journal of Computational Physics*, 172(2):401–425, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967695>.

Mackenzie:2000:NSO

- [MR00] J. A. Mackenzie and M. L. Robertson. The numerical solution of one-dimensional phase change problems using an adaptive moving mesh method. *Journal of Computational Physics*, 161(2):537–557, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965112>.

Murray:2001:CVB

- [MR01] Ross J. Murray and C. J. C. Reason. A curvilinear version of the Bryan–Cox–Semtner ocean model and its representation of the Arctic circulation. *Journal of Computational Physics*, 171(1):1–46, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967610>.

Mackenzie:2002:MMM

- [MR02] J. A. Mackenzie and M. L. Robertson. A moving mesh method for the solution of the one-dimensional phase-field equations. *Journal of Computational Physics*, 181(2):526–544, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971408>.

Millett:2003:ERO

- [MR03] Kenneth C. Millett and Eric J. Rawdon. Energy, ropelength, and other physical aspects of equilateral knots. *Journal of Computational Physics*, 186(2):426–456, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000263>.

Michaelis:2004:FSL

- [MR04] B. Michaelis and B. Rogg. FEM-simulation of laminar flame propagation. I: Two-dimensional flames. *Journal of Computational Physics*, 196(2):417–447, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300603X>.

Martinsson:2005:FDS

- [MR05] P. G. Martinsson and V. Rokhlin. A fast direct solver for boundary integral equations in two dimensions. *Journal of Computational Physics*, 205(1):1–23, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004462>.

Marchandise:2006:SFE

- [MR06a] Emilie Marchandise and Jean-François Remacle. A stabilized finite element method using a discontinuous level set approach for solving two phase incompressible flows. *Journal of Computational Physics*, 219(2):780–800, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002142>.

Motamed:2006:FPS

- [MR06b] Mohammad Motamed and Olof Runborg. A fast phase space method for computing creeping rays. *Journal of Computational Physics*, 219(1):276–295, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001653>.

Martinsson:2007:FDS

- [MR07a] P. G. Martinsson and V. Rokhlin. A fast direct solver for scattering problems involving elongated structures. *Journal of Computational Physics*, 221(1):288–302, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002907>.

Merriman:2007:DGM

- [MR07b] Barry Merriman and Steven J. Ruuth. Diffusion generated motion of curves on surfaces. *Journal of Computational Physics*, 225(2):2267–2282, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001301>.

Mishra:2007:STC

- [MR07c] Subhash C. Mishra and Hillol K. Roy. Solving transient conduction and radiation heat transfer problems using the lattice Boltzmann method and the finite volume method. *Journal of Computational Physics*, 223(1):89–107, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004268>.

Marchandise:2006:QFD

- [MRC06] Emilie Marchandise, Jean-François Remacle, and Nicolas Chevaugeon. A quadrature-free discontinuous Galerkin method for the level set equation. *Journal of Computational Physics*, 212(1):338–357, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003244>.

Masserey:2005:NIT

- [MRRS05] Alexandre Masserey, Jacques Rappaz, Roland Rozsnyo, and Marek Swierkosz. Numerical integration of the three-dimensional Green kernel for an electromagnetic problem. *Journal of Computational Physics*, 205(1):48–71, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004486>.

Marie:2009:CBL

- [MRS09] Simon Marié, Denis Ricot, and Pierre Sagaut. Comparison between lattice Boltzmann method and Navier–Stokes high order schemes for computational aeroacoustics. *Journal of Computational Physics*, 228(4):1056–1070, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800538X>.

Memoli:2001:FCW

- [MS01] Facundo Mévoli and Guillermo Sapiro. Fast computation of weighted distance functions and geodesics on implicit hyper-surfaces. *Journal of Computational Physics*, 173(2):730–764, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969104>.

Margolin:2003:SOS

- [MS03] L. G. Margolin and Mikhail Shashkov. Second-order sign-preserving conservative interpolation (remapping) on general grids. *Journal of Computational Physics*, 184(1):266–298, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000335>.

Mascagni:2004:RWB

- [MS04] Michael Mascagni and Nikolai A. Simonov. The random walk on the boundary method for calculating capacitance. *Journal of Computational Physics*, 195(2):465–473, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005382>.

Maitre:2008:LSM

- [MS08a] Emmanuel Maitre and Fadil Santosa. Level set methods for optimization problems involving geometry and constraints II. Optimization over a fixed surface. *Journal of Computational Physics*, 227(22):9596–9611, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003744>.

Miller:2008:PWC

- [MS08b] Martin J. Miller and Piotr K. Smolarkiewicz. Predicting weather, climate and extreme events. *Journal of Computational Physics*, 227(7):3429–3430, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000156>.

Moore:2007:SMF

- [MSB07a] Peter Moore, Harmen Slot, and Bendiks Jan Boersma. Simulation and measurement of flow generated noise. *Journal of Computational Physics*, 224(1):449–463, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001507>.

Morrell:2007:CCA

- [MSB07b] J. M. Morrell, P. K. Sweby, and A. Barlow. A cell by cell anisotropic adaptive mesh ALE scheme for the numerical solution of the Euler equations. *Journal of Computational Physics*, 226(1):1152–1180, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002264>.

May:2007:IGK

- [MSJ07] Georg May, Balaji Srinivasan, and Antony Jameson. An improved gas-kinetic BGK finite-volume method for three-dimensional transonic flow. *Journal of Computational Physics*, 220(2):856–878, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002646>.

Memoli:2004:SVP

- [MSO04] Facundo Mémoli, Guillermo Sapiro, and Stanley Osher. Solving variational problems and partial differential equations mapping into general target manifolds. *Journal of Computational Physics*, 195(1):263–292, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005321>.

Miloshevsky:2006:AFD

- [MSP⁺06] Gennady V. Miloshevsky, Valeryi A. Sizyuk, Michael B. Partenskii, Ahmed Hassanein, and Peter C. Jordan. Application of finite-difference methods to membrane-mediated protein interactions and to heat and magnetic field diffusion in plasmas. *Journal of Computational Physics*, 212(1):25–51, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003086>.

Mattsson:2008:SAS

- [MSS08] K. Mattsson, M. Svärd, and M. Shoeby. Stable and accurate schemes for the compressible Navier–Stokes equations. *Journal of Computational Physics*, 227(4):2293–2316, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004627>.

Meerschaert:2006:FDM

- [MST06] Mark M. Meerschaert, Hans-Peter Scheffler, and Charles Tadjeran. Finite difference methods for two-dimensional fractional dispersion equation. *Journal of Computational Physics*, 211(1):249–261, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002731>.

Mei:2000:LBM

- [MSYL00] Renwei Mei, Wei Shyy, Dazhi Yu, and Li-Shi Luo. Lattice Boltzmann method for 3-D flows with curved boundary. *Journal of Computational Physics*, 161(2):680–699, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965227>.

Min:2001:IYS

- [MT01] M. S. Min and C. H. Teng. The instability of the Yee scheme for the “Magic Time Step”. *Journal of Computational Physics*, 166(2):418–424, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966506>.

Meseguer:2003:LPF

- [MT03] Á. Meseguer and L. N. Trefethen. Linearized pipe flow to Reynolds number 10^7 . *Journal of Computational Physics*, 186(1):178–197, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000299>.

Milstein:2004:ECW

- [MT04] G. N. Milstein and M. V. Tretyakov. Evaluation of conditional Wiener integrals by numerical integration of stochastic differential equations. *Journal of Computational Physics*, 197(1):275–298, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006302>.

Marchuk:2007:MSP

- [MT07a] O. Marchuk and M. Z. Tokar. Modeling of supersonic plasma flow in the scrape-off layer. *Journal of Computational Physics*, 227(2):1597–1607, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004299>.

Moroney:2007:TDF

- [MT07b] T. J. Moroney and I. W. Turner. A three-dimensional finite volume method based on radial basis functions for the accurate computational modelling of nonlinear diffusion equations. *Journal of Computational Physics*, 225(2):1409–1426, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000484>.

Muradoglu:2008:FTM

- [MT08] Metin Muradoğlu and Gretar Tryggvason. A front-tracking method for computation of interfacial flows with soluble surfactants. *Journal of Computational Physics*, 227(4):2238–2262, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700438X>.

Medvinsky:2008:LAB

- [MTH08] M. Medvinsky, E. Turkel, and U. Hetmaniuk. Local absorbing boundary conditions for elliptical shaped boundaries. *Journal of Computational Physics*, 227(18):8254–8267, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002866>.

MacLachlan:2008:FRS

- [MTV08] S. P. MacLachlan, J. M. Tang, and C. Vuik. Fast and robust solvers for pressure-correction in bubbly flow problems. *Journal of Computational Physics*, 227(23):9742–9761, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800404X>.

Martin:2006:BOW

- [MTWW06] M. P. Martín, E. M. Taylor, M. Wu, and V. G. Weirs. A bandwidth-optimized WENO scheme for the effective direct numerical simulation of compressible turbulence. *Journal of Computational Physics*, 220(1):270–289, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002312>.

Mu:2002:MHA

- [Mu02] Mo Mu. A multiple-heaps algorithm for parallel simulation of collision systems. *Journal of Computational Physics*, 179(2):539–556, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970737>.

McClarren:2009:MIM

- [MU09] Ryan G. McClarren and Todd J. Urbatsch. A modified implicit Monte Carlo method for time-dependent radiative transfer with adaptive material coupling. *Journal of Computational Physics*, 228(16):5669–5686, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002095>.

Munger:2006:LSA

- [MV06] David Munger and Alain Vincent. A level set approach to simulate magnetohydrodynamic instabilities in aluminum reduction cells. *Journal of Computational Physics*, 217(2):295–311, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000118>.

Moyle:2008:LRL

- [MV08] Keri R. Moyle and Yiannis Ventikos. Local remeshing for large amplitude grid deformations. *Journal of Computational Physics*, 227(5):2781–2793, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005037>.

Manna:2004:PSM

- [MVD04] Marcello Manna, Andrea Vacca, and Michel O. Deville. Preconditioned spectral multi-domain discretization of the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 201(1):204–223, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002098>.

Marsden:2002:CCF

- [MVM02] Alison L. Marsden, Oleg V. Vasilyev, and Parviz Moin. Construction of commutative filters for LES on unstructured meshes. *Journal of Computational Physics*, 175(2):584–603, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196958X>.

Morinishi:2004:FCF

- [MVO04] Youhei Morinishi, Oleg V. Vasilyev, and Takeshi Ogi. Fully conservative finite difference scheme in cylindrical coordinates for incompressible flow simulations. *Journal of Computational Physics*, 197(2):686–710, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006594>.

Mark:2008:DVN

- [MvW08] Andreas Mark and Berend G. M. van Wachem. Derivation and validation of a novel implicit second-order accurate immersed boundary method. *Journal of Computational Physics*, 227(13):6660–6680, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001770>.

Morgan:2006:NNA

- [MWG⁺06] N. M. Morgan, C. G. Wells, M. J. Goodson, M. Kraft, and W. Wagner. A new numerical approach for the simulation of the growth of inorganic nanoparticles. *Journal of Computational Physics*, 211(2):638–658, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002913>.

Madzvamuse:2003:MGF

- [MWM03] Anotida Madzvamuse, Andrew J. Wathen, and Philip K. Maini. A moving grid finite element method applied to a model biological pattern generator. *Journal of Computational Physics*, 190(2):478–500, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002948>.

Mani:2008:RRA

- [MWM08] Ali Mani, Meng Wang, and Parviz Moin. Resolution requirements for aero-optical simulations. *Journal of Computational Physics*, 227(21):9008–9020, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800096X>.

Meng:2003:UTG

- [MY03] Hua Meng and Vigor Yang. A unified treatment of general fluid thermodynamics and its application to a preconditioning scheme. *Journal of Computational Physics*, 189(1):277–304, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002110>.

Ma:2006:QAF

- [MY06a] Q. W. Ma and S. Yan. Quasi ALE finite element method for nonlinear water waves. *Journal of Computational Physics*, 212(1):52–72, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003098>.

Mavriplis:2006:CDG

- [MY06b] Dimitri J. Mavriplis and Zhi Yang. Construction of the discrete geometric conservation law for high-order time-accurate simulations on dynamic meshes. *Journal of Computational Physics*, 213(2):557–573, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500392X>.

Ming:2006:NMM

- [MY06c] Pingbing Ming and Xingye Yue. Numerical methods for multiscale elliptic problems. *Journal of Computational Physics*, 214(1):421–445, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004523>.

Masters:2007:OFS

- [MY07] Nathan D. Masters and Wenjing Ye. Octant flux splitting information preservation DSMC method for thermally driven flows. *Journal of Computational Physics*, 226(2):2044–2062, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700277X>.

Matsuo:2009:ECG

- [MY09] Takayasu Matsuo and Hisashi Yamaguchi. An energy-conserving Galerkin scheme for a class of nonlinear dispersive equations. *Journal of Computational Physics*, 228(12):4346–4358, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900117X>.

Myong:2001:CME

- [Myo01] R. S. Myong. A computational method for Eu's generalized hydrodynamic equations of rarefied and microscale gasdynamics. *Journal of Computational Physics*, 168(1):47–72, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966786>.

Myong:2004:GHC

- [Myo04] R. S. Myong. A generalized hydrodynamic computational model for rarefied and microscale diatomic gas flows. *Journal of Computational Physics*, 195(2):655–676, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005771>.

Morel:2007:LMG

- [MYW07] Jim E. Morel, T.-Y. Brian Yang, and James S. Warsa. Linear multifrequency-grey acceleration recast for preconditioned Krylov iterations. *Journal of Computational Physics*, 227(1):244–263, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003294>.

Mencinger:2007:FVD

- [MZ07] Jure Mencinger and Iztok Zun. On the finite volume discretization of discontinuous body force field on collocated grid: Application to VOF method. *Journal of Computational Physics*, 221(2):524–538, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003019>.

Ma:2008:SSF

- [MZ08] Xiang Ma and Nicholas Zabaras. A stabilized stochastic finite element second-order projection method for modeling natural convection in random porous media. *Journal of Computational Physics*, 227(18):8448–8471, September 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003276>.

Ma:2009:AHS

- [MZ09] Xiang Ma and Nicholas Zabaras. An adaptive hierarchical sparse grid collocation algorithm for the solution of stochastic differential equations. *Journal of Computational Physics*, 228(8):3084–3113, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900028X>.

Nemec:2008:ASC

- [NA08] Marian Nemec and Michael J. Aftosmis. Adjoint sensitivity computations for an embedded-boundary Cartesian mesh method. *Journal of Computational Physics*, 227(4):2724–2742, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005013>.

Nash:2008:NFO

- [Nas08] Patrick L. Nash. A new fourth-order Fourier–Bessel split-step method for the extended nonlinear Schrödinger equation. *Journal of Computational Physics*, 227(3):2073–2082, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004470>.

Nataf:2006:NAP

- [Nat06] Frédéric Nataf. A new approach to perfectly matched layers for the linearized Euler system. *Journal of Computational Physics*, 214(2):757–772, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004729>.

Novak:2004:ABC

- [NB04] Jérôme Novak and Silvano Bonazzola. Absorbing boundary conditions for simulation of gravitational waves with spectral methods in spherical coordinates. *Journal of Computational Physics*, 197(1):186–196, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006259>.

Nestor:2009:EFV

- [NBLQ09] Ruairi M. Nestor, Mihai Basa, Martin Lastiwka, and Nathan J. Quinlan. Extension of the finite volume particle method to viscous flow. *Journal of Computational Physics*, 228(5):1733–1749, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005913>.

Nordstrom:2001:HOF

- [NC01] Jan Nordström and Mark H. Carpenter. High-order finite difference methods, multidimensional linear problems, and curvilinear coordinates. *Journal of Computational Physics*, 173(1):149–174, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968640>.

Nieter:2004:VVP

- [NC04] Chet Nieter and John R. Cary. VORPAL: a versatile plasma simulation code. *Journal of Computational Physics*, 196(2):448–473, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006041>.

Niu:2003:SFA

- [NCS03] X. D. Niu, Y. T. Chew, and C. Shu. Simulation of flows around an impulsively started circular cylinder by Taylor series expansion- and least squares-based lattice Boltzmann method. *Journal of Computational Physics*, 188(1):176–193, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300161X>.

Nieter:2009:ADM

- [NCW⁺09] C. Nieter, John R. Cary, Gregory R. Werner, David N. Smithe, and Peter H. Stoltz. Application of Dey–Mittra conformal boundary algorithm to 3D electromagnetic modeling. *Journal of Computational Physics*, 228(21):7902–7916, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003829>.

Nguyen:2004:SCM

- [ND04] S. Nguyen and C. Delcarte. A spectral collocation method to solve Helmholtz problems with boundary conditions involving mixed tangential and normal derivatives. *Journal of Computational Physics*, 200(1):34–49, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001299>.

Nestler:2005:CGP

- [NDG05] B. Nestler, D. Danilov, and P. Galenko. Crystal growth of pure substances: Phase-field simulations in comparison with analytical and experimental results. *Journal of Computational Physics*, 207(1):221–239, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000240>.

Nourgaliev:2006:ACB

- [NDT06] R. R. Nourgaliev, T. N. Dinh, and T. G. Theofanous. Adaptive characteristics-based matching for compressible multifluid dynamics. *Journal of Computational Physics*, 213(2):500–529, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003906>.

Nordbotten:2005:DQG

- [NE05] Jan Martin Nordbotten and Geir Terje Eigestad. Discretization on quadrilateral grids with improved monotonicity properties. *Journal of Computational Physics*, 203(2):744–760, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004036>.

Neofytou:2007:RCB

- [Neo07] Panagiotis Neofytou. Revision of the characteristics-based scheme for incompressible flows. *Journal of Computational Physics*, 222(2):475–484, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004852>.

Nonomura:2009:EDS

- [NF09] Taku Nonomura and Kozo Fujii. Effects of difference scheme type in high-order weighted compact nonlinear schemes. *Journal of Computational Physics*, 228(10):3533–3539, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000837>.

Noullez:2003:HBA

- [NFA03] Alain Noullez, Duccio Fanelli, and Erik Aurell. A heap-based algorithm for the study of one-dimensional particle systems. *Journal of Computational Physics*, 186(2):697–703, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000482>.

Newren:2007:USD

- [NFGK07] Elijah P. Newren, Aaron L. Fogelson, Robert D. Guy, and Robert M. Kirby. Unconditionally stable discretizations of the immersed boundary equations. *Journal of Computational Physics*, 222(2):702–719, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003743>.

Nguyen:2001:BCC

- [NFK01] Duc Q. Nguyen, Ronald P. Fedkiw, and Myungjoo Kang. A boundary condition capturing method for incompressible flame discontinuities. *Journal of Computational Physics*, 172(1):71–98, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968123>.

Nedea:2006:DDD

- [NFvS⁺06] S. V. Nedea, A. J. H. Frijns, A. A. van Steenhoven, A. P. J. Jansen, A. J. Markvoort, and P. A. J. Hilbers. Density distribution for a dense hard-sphere gas in micro/nano-channels: Analytical and simulation results. *Journal of Computational Physics*, 219(2):532–552, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001914>.

Neelov:2006:ENQ

- [NG06a] A. I. Neelov and S. Goedecker. An efficient numerical quadrature for the calculation of the potential energy of wavefunctions expressed in the Daubechies wavelet basis. *Journal of Computational Physics*, 217(2):312–339, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600012X>.

Nordstrom:2006:SHM

- [NG06b] Jan Nordström and Jing Gong. A stable hybrid method for hyperbolic problems. *Journal of Computational Physics*, 212(2):436–453, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500327X>.

Novak:2007:DCS

- [NGC⁺07] Igor L. Novak, Fei Gao, Yung-Sze Choi, Diana Resasco, James C. Schaff, and Boris M. Slepchenko. Diffusion on a curved surface coupled to diffusion in the volume: Application to cell biology. *Journal of Computational Physics*, 226(2):1271–1290, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002331>.

Nguyen:2007:PEE

- [Ngu07] N. C. Nguyen. A posteriori error estimation and basis adaptivity for reduced-basis approximation of nonaffine-parametrized linear elliptic partial differential equations. *Journal of Computational Physics*, 227(2):983–1006, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003749>.

Nguyen:2008:MRB

- [Ngu08] N. C. Nguyen. A multiscale reduced-basis method for parametrized elliptic partial differential equations with multiple scales. *Journal of Computational Physics*, 227(23):9807–9822, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004087>.

Nordstrom:2009:SCH

- [NGvdWS09] Jan Nordström, Jing Gong, Edwin van der Weide, and Magnus Svärd. A stable and conservative high order multi-block method for the compressible Navier–Stokes equations. *Journal of Computational Physics*, 228(24):9020–9035, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004902>.

Nihei:2003:FSS

- [NI03] Tomonori Nihei and Katsuya Ishii. A fast solver of the shallow water equations on a sphere using a combined compact difference scheme. *Journal of Computational Physics*, 187(2):639–659, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001529>.

Ni:2009:CPM

- [Ni09] Ming-Jiu Ni. Consistent projection methods for variable density incompressible Navier–Stokes equations with continuous surface forces on a rectangular collocated mesh. *Journal of Computational Physics*, 228(18):6938–6956, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003313>.

Nicoud:2000:CHO

- [Nic00] F. Nicoud. Conservative high-order finite-difference schemes for low-Mach number flows. *Journal of Computational Physics*, 158(1):71–97, February 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964082>.

Nicholls:2009:RBP

- [Nic09] David P. Nicholls. A rapid boundary perturbation algorithm for scattering by families of rough surfaces. *Journal of Computational Physics*, 228(9):3405–3420, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000436>.

Nie:2001:NEV

- [Nie01] Qing Nie. The nonlinear evolution of vortex sheets with surface tension in axisymmetric flows. *Journal of Computational Physics*, 174(1):438–459, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969268>.

Nikitin:2006:FDM

- [Nik06] Nikolay Nikitin. Finite-difference method for incompressible Navier–Stokes equations in arbitrary orthogonal curvilinear coordinates. *Journal of Computational Physics*, 217(2):759–781, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000398>.

Nishikawa:2007:FOS

- [Nis07] Hiroaki Nishikawa. A first-order system approach for diffusion equation. I: Second-order residual-distribution schemes. *Journal of Computational Physics*, 227(1):315–352, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700335X>.

Nitsche:2001:SFC

- [Nit01] Monika Nitsche. Singularity formation in a cylindrical and a spherical vortex sheet. *Journal of Computational Physics*, 173(1):208–230, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196872X>.

Nita:2005:ATC

- [Nit05] Gelu M. Nita. About two cluster generating algorithms. *Journal of Computational Physics*, 206(2):578–596, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000069>.

Nagrath:2006:HSA

- [NJLA06] Sunitha Nagrath, Kenneth Jansen, Richard T. Lahey, Jr., and Iskander Akhatov. Hydrodynamic simulation of air

bubble implosion using a level set approach. *Journal of Computational Physics*, 215(1):98–132, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500481X>.

Ni:2008:DSB

- [NJX08a] Guoxi Ni, Song Jiang, and Kun Xu. A DGBGK scheme based on WENO limiters for viscous and inviscid flows. *Journal of Computational Physics*, 227(11):5799–5815, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001149>.

Ni:2008:EKS

- [NJX08b] Guoxi Ni, Song Jiang, and Kun Xu. Efficient kinetic schemes for steady and unsteady flow simulations on unstructured meshes. *Journal of Computational Physics*, 227(6):3015–3031, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002574>.

Ni:2009:RFA

- [NJX09] Guoxi Ni, Song Jiang, and Kun Xu. Remapping-free ALE-type kinetic method for flow computations. *Journal of Computational Physics*, 228(8):3154–3171, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000333>.

Nishikawa:2008:VSC

- [NK08] Hiroaki Nishikawa and Keiichi Kitamura. Very simple, carbuncle-free, boundary-layer-resolving, rotated-hybrid Riemann solvers. *Journal of Computational Physics*, 227(4):2560–2581, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004822>.

Natvig:2008:FCM

- [NL08] Jostein R. Natvig and Knut-Andreas Lie. Fast computation of multiphase flow in porous media by implicit discontinuous

Galerkin schemes with optimal ordering of elements. *Journal of Computational Physics*, 227(24):10108–10124, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004440>.

Nouy:2009:GSD

- [NL09] Anthony Nouy and Olivier P. Le Maître. Generalized spectral decomposition for stochastic nonlinear problems. *Journal of Computational Physics*, 228(1):202–235, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004737>.

Nagarajan:2003:RHO

- [NLF03] Santhanam Nagarajan, Sanjiva K. Lele, and Joel H. Ferziger. A robust high-order compact method for large eddy simulation. *Journal of Computational Physics*, 191(2):392–419, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300322X>.

Nishimura:2006:FEP

- [NLLE06] Y. Nishimura, Z. Lin, J. L. V. Lewandowski, and S. Ethier. A finite element Poisson solver for gyrokinetic particle simulations in a global field aligned mesh. *Journal of Computational Physics*, 214(2):657–671, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004675>.

Nielsen:2007:URP

- [NLT07] Bjørn Fredrik Nielsen, Marius Lysaker, and Aslak Tveito. On the use of the resting potential and level set methods for identifying ischemic heart disease: An inverse problem. *Journal of Computational Physics*, 220(2):772–790, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002592>.

Nourgaliev:2008:NPI

- [NLT08] R. R. Nourgaliev, M.-S. Liou, and T. G. Theofanous. Numerical prediction of interfacial instabilities: Sharp inter-

face method (SIM). *Journal of Computational Physics*, 227 (8):3940–3970, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005566>.

Nastase:2006:HOD

- [NM06] Cristian R. Nastase and Dimitri J. Mavriplis. High-order discontinuous Galerkin methods using an hp-multigrid approach. *Journal of Computational Physics*, 213(1):330–357, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003839>.

Ng:2009:EFS

- [NMG09] Yen Ting Ng, Chohong Min, and Frédéric Gibou. An efficient fluid-solid coupling algorithm for single-phase flows. *Journal of Computational Physics*, 228(23):8807–8829, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004719>.

Ni:2007:CDCb

- [NMH⁺07] Ming-Jiu Ni, Ramakanth Munipalli, Peter Huang, Neil B. Morley, and Mohamed A. Abdou. A current density conservative scheme for incompressible MHD flows at a low magnetic Reynolds number. Part II: On an arbitrary collocated mesh. *Journal of Computational Physics*, 227(1):205–228, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003269>.

Ni:2007:CDCa

- [NMM⁺07] Ming-Jiu Ni, Ramakanth Munipalli, Neil B. Morley, Peter Huang, and Mohamed A. Abdou. A current density conservative scheme for incompressible MHD flows at a low magnetic Reynolds number. Part I: On a rectangular collocated grid system. *Journal of Computational Physics*, 227(1):174–204, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003270>.

Nordstrom:2007:BCD

- [NMS07] Jan Nordström, Ken Mattsson, and Charles Swanson. Boundary conditions for a divergence free velocity-pressure formulation of the Navier–Stokes equations. *Journal of Computational Physics*, 225(1):874–890, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000083>.

Nicholls:2004:ENR

- [NN04] David P. Nicholls and Nilima Nigam. Exact non-reflecting boundary conditions on general domains. *Journal of Computational Physics*, 194(1):278–303, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004832>.

Nishida:2009:ASS

- [NN09] Hiroyuki Nishida and Taku Nonomura. ADI–SGS scheme on ideal magnetohydrodynamics. *Journal of Computational Physics*, 228(9):3182–3188, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000588>.

Noelle:2000:MIN

- [Noe00] Sebastian Noelle. The MoT–ICE: a new high-resolution wave-propagation algorithm for multidimensional systems of conservation laws based on Fey’s method of transport. *Journal of Computational Physics*, 164(2):283–334, November 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965987>.

Nejat:2008:EDO

- [NOG08a] Amir Nejat and Carl Ollivier-Gooch. Effect of discretization order on preconditioning and convergence of a high-order unstructured Newton–GMRES solver for the Euler equations. *Journal of Computational Physics*, 227(4):2366–2386, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004676>.

Nejat:2008:HOA

- [NOG08b] Amir Nejat and Carl Ollivier-Gooch. A high-order accurate unstructured finite volume Newton–Krylov algorithm for inviscid compressible flows. *Journal of Computational Physics*, 227(4):2582–2609, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004834>.

Novikov:2004:EVC

- [Nov04] Alexei Novikov. Eddy viscosity of cellular flows by upscaling. *Journal of Computational Physics*, 195(1):341–354, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005357>.

Nguyen:2009:IHOa

- [NPC09a] N. C. Nguyen, J. Peraire, and B. Cockburn. An implicit high-order hybridizable discontinuous Galerkin method for linear convection-diffusion equations. *Journal of Computational Physics*, 228(9):3232–3254, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000308>.

Nguyen:2009:IHO b

- [NPC09b] N. C. Nguyen, J. Peraire, and B. Cockburn. An implicit high-order hybridizable discontinuous Galerkin method for nonlinear convection-diffusion equations. *Journal of Computational Physics*, 228(23):8841–8855, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004756>.

Nakshatrala:2009:DSD

- [NPH09] K. B. Nakshatrala, A. Prakash, and K. D. Hjelmstad. On dual Schur domain decomposition method for linear first-order transient problems. *Journal of Computational Physics*, 228(21):7957–7985, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003945>.

Noelle:2006:WBF

- [NPPN06] Sebastian Noelle, Normann Pankratz, Gabriella Puppo, and Jostein R. Natvig. Well-balanced finite volume schemes of arbitrary order of accuracy for shallow water flows. *Journal of Computational Physics*, 213(2):474–499, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500389X>.

Nicholls:2001:SHO

- [NR01] David P. Nicholls and Fernando Reitich. Stability of high-order perturbative methods for the computation of Dirichlet–Neumann operators. *Journal of Computational Physics*, 170(1):276–298, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967373>.

Nitsche:2004:NSI

- [NS04] Monika Nitsche and Paul H. Steen. Numerical simulations of inviscid capillary pinchoff. *Journal of Computational Physics*, 200(1):299–324, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001688>.

Noskov:2005:ICS

- [NS05] Mikhail Noskov and Mitchell D. Smooke. An implicit compact scheme solver with application to chemically reacting flows. *Journal of Computational Physics*, 203(2):700–730, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003997>.

Nam:2009:TBV

- [NSC09] Jaewook Nam, L. E. Scriven, and Marcio S. Carvalho. Tracking birth of vortex in flows. *Journal of Computational Physics*, 228(12):4549–4567, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001430>.

Nair:2003:FTG

- [NSS03] Ramachandran D. Nair, Jeffrey S. Scroggs, and Frederick H. M. Semazzi. A forward-trajectory global semi-Lagrangian transport scheme. *Journal of Computational Physics*, 190(1):275–294, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002742>.

Nourgaliev:2007:HFI

- [NT07] R. R. Nourgaliev and T. G. Theofanous. High-fidelity interface tracking in compressible flows: Unlimited anchored adaptive level set. *Journal of Computational Physics*, 224(2):836–866, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005511>.

Nikolopoulos:2007:TDN

- [NTB07] N. Nikolopoulos, A. Theodorakakos, and G. Bergeles. Three-dimensional numerical investigation of a droplet impinging normally onto a wall film. *Journal of Computational Physics*, 225(1):322–341, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005936>.

Nakamura:2007:LMM

- [NTO⁺07] Yoshimichi Nakamura, Norihiko Takahashi, Masakuni Okamoto, Tsuyoshi Uda, and Takahisa Ohno. Link molecule method for quantum mechanical/molecular mechanical hybrid simulations. *Journal of Computational Physics*, 225(2):1985–1993, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000988>.

Nakamura:2001:ECS

- [NTYT01] Takashi Nakamura, Ryotaro Tanaka, Takashi Yabe, and Kenji Takizawa. Exactly conservative semi-Lagrangian scheme for multi-dimensional hyperbolic equations with directional splitting technique. *Journal of Computational Physics*, 174(1):171–207, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999101968883>. See erratum [NTYT02].

Nakamura:2002:EEC

- [NTYT02] Takashi Nakamura, Ryotaro Tanaka, Takashi Yabe, and Kenji Takizawa. Erratum: “Exactly Conservative Semi-Lagrangian Scheme for Multi-dimensional Hyperbolic Equations with Directional Splitting Technique”: Volume 174, Number 1 (2001), pages 171–207. *Journal of Computational Physics*, 175(2):792, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969840>. See [NTYT01].

Nease:2009:TSA

- [NU09] Brian R. Nease and Taro Ueki. Time series analysis and Monte Carlo methods for eigenvalue separation in neutron multiplication problems. *Journal of Computational Physics*, 228(23):8525–8547, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003957>.

Nakshatrala:2009:NNM

- [NV09] K. B. Nakshatrala and A. J. Valocchi. Non-negative mixed finite element formulations for a tensorial diffusion equation. *Journal of Computational Physics*, 228(18):6726–6752, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002897>.

Nerinckx:2005:MUT

- [NVD05] Krista Nerinckx, Jan Vierendeels, and Erik Dick. Mach-uniformity through the coupled pressure and temperature correction algorithm. *Journal of Computational Physics*, 206(2):597–623, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000070>.

Nerinckx:2007:MUA

- [NVD07] Krista Nerinckx, Jan Vierendeels, and Erik Dick. A Mach-uniform algorithm: Coupled versus segregated approach.

Journal of Computational Physics, 224(1):314–331, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000782>.

Nishikawa:2003:OMC

- [NvL03] Hiroaki Nishikawa and Bram van Leer. Optimal multigrid convergence by elliptic/hyperbolic splitting. *Journal of Computational Physics*, 190(1):52–63, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002535>.

Nagele:2007:IDS

- [NW07] Sandra Nägele and Gabriel Wittum. On the influence of different stabilisation methods for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 224(1):100–116, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006176>.

Nie:2008:CIF

- [NWZL08] Qing Nie, Frederic Y. M. Wan, Yong-Tao Zhang, and Xin-Feng Liu. Compact integration factor methods in high spatial dimensions. *Journal of Computational Physics*, 227(10):5238–5255, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000752>.

Noelle:2007:HOW

- [NXS07] Sebastian Noelle, Yulong Xing, and Chi-Wang Shu. High-order well-balanced finite volume WENO schemes for shallow water equation with moving water. *Journal of Computational Physics*, 226(1):29–58, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001416>.

Nystrom:2002:HOT

- [Nys02] J. F. Nystrom. High-order time-stable numerical boundary scheme for the temporally dependent Maxwell equations in two dimensions. *Journal of Computational Physics*,

178(2):290–306, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970142>.

Narayanan:2005:VMS

- [NZ05] Velamur Asokan Badri Narayanan and Nicholas Zabaras. Variational multiscale stabilized FEM formulations for transport equations: stochastic advection-diffusion and incompressible stochastic Navier–Stokes equations. *Journal of Computational Physics*, 202(1):94–133, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002694>.

Nutaro:2007:SPD

- [NZ07] James Nutaro and Bernard Zeigler. On the stability and performance of discrete event methods for simulating continuous systems. *Journal of Computational Physics*, 227(1):797–819, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003609>.

Nie:2006:ESI

- [NZZ06] Qing Nie, Yong-Tao Zhang, and Rui Zhao. Efficient semi-implicit schemes for stiff systems. *Journal of Computational Physics*, 214(2):521–537, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004596>.

Okongo:2002:CBC

- [OB02] Nora Okong’o and Josette Bellan. Consistent boundary conditions for multicomponent real gas mixtures based on characteristic waves. *Journal of Computational Physics*, 176(2):330–344, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102969901>.

Oberkampf:2006:MAB

- [OB06] William L. Oberkampf and Matthew F. Barone. Measures of agreement between computation and experiment: Validation metrics. *Journal of Computational Physics*, 217(1):

5–36, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001860>.

Omang:2006:SSC

- [OBT06] M. Omang, S. Børve, and J. Trulsen. SPH in spherical and cylindrical coordinates. *Journal of Computational Physics*, 213(1):391–412, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003852>.

Olson:2008:GD

- [OC08] Spencer E. Olson and Andrew J. Christlieb. Gridless DSMC. *Journal of Computational Physics*, 227(17):8035–8064, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800257X>.

Ortega-Casanova:2008:NMS

- [OCFF08] J. Ortega-Casanova and R. Fernandez-Feria. A numerical method for the study of nonlinear stability of axisymmetric flows based on the vector potential. *Journal of Computational Physics*, 227(6):3307–3321, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005347>.

Osher:2002:GOP

- [OCK⁺02] Stanley Osher, Li-Tien Cheng, Myungjoo Kang, Hyeseon Shim, and Yen-Hsi Tsai. Geometric optics in a phase-space-based level set and Eulerian framework. *Journal of Computational Physics*, 179(2):622–648, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970804>.

Oger:2006:TDS

- [ODAF06] G. Oger, M. Doring, B. Alessandrini, and P. Ferrant. Two-dimensional SPH simulations of wedge water entries. *Journal of Computational Physics*, 213(2):803–822, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004171>.

Oger:2007:ISM

- [ODAF07] G. Oger, M. Doring, B. Alessandrini, and P. Ferrant. An improved SPH method: Towards higher order convergence. *Journal of Computational Physics*, 225(2):1472–1492, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000630>.

Ovtchinnikov:2007:ASB

- [ODCK07] S. Ovtchinnikov, F. Dobrian, X.-C. Cai, and D. E. Keyes. Additive Schwarz-based fully coupled implicit methods for resistive Hall magnetohydrodynamic problems. *Journal of Computational Physics*, 225(2):1919–1936, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000939>.

Osher:2001:LSMa

- [OF01] Stanley Osher and Ronald P. Fedkiw. Level set methods: An overview and some recent results. *Journal of Computational Physics*, 169(2):463–502, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966361>.

Oliveira:2002:TOF

- [OF02] Anabela Oliveira and André B. Fortunato. Toward an oscillation-free, mass conservative, Eulerian–Lagrangian transport model. *Journal of Computational Physics*, 183(1):142–164, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971809>.

Ohwada:2006:SDH

- [OF06] Taku Ohwada and Satoshi Fukata. Simple derivation of high-resolution schemes for compressible flows by kinetic approach. *Journal of Computational Physics*, 211(2):424–447, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002810>.

Ollivier-Gooch:2002:HOA

- [OGV02] Carl Ollivier-Gooch and Michael Van Altena. A high-order-accurate unstructured mesh finite-volume scheme for the advection-diffusion equation. *Journal of Computational Physics*, 181(2):729–752, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971597>.

Oh:2004:AMS

- [Oh04] Hae-Soo Oh. Accurate mode-separated energy release rates for delamination cracks. *Journal of Computational Physics*, 193(1):86–114, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004200>.

Ohwada:2002:CKS

- [Ohw02] Taku Ohwada. On the construction of kinetic schemes. *Journal of Computational Physics*, 177(1):156–175, March 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970087>.

Oroskar:2006:ECP

- [OJW06] Siddharth Oroskar, David R. Jackson, and Donald R. Wilton. Efficient computation of the 2D periodic Green's function using the Ewald method. *Journal of Computational Physics*, 219(2):899–911, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003354>.

Ohwada:2004:MDR

- [OK04] Taku Ohwada and Seijiro Kobayashi. Management of discontinuous reconstruction in kinetic schemes. *Journal of Computational Physics*, 197(1):116–138, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006223>.

Olsson:2005:CLS

- [OK05] Elin Olsson and Gunilla Kreiss. A conservative level set method for two phase flow. *Journal of Computational Physics*, 210(1):225–246, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002184>.

Oevermann:2006:CGF

- [OK06a] M. Oevermann and R. Klein. A Cartesian grid finite volume method for elliptic equations with variable coefficients and embedded interfaces. *Journal of Computational Physics*, 219(2):749–769, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002129>.

Omelchenko:2006:EDH

- [OK06b] Y. A. Omelchenko and H. Karimabadi. Event-driven, hybrid particle-in-cell simulation: a new paradigm for multi-scale plasma modeling. *Journal of Computational Physics*, 216(1):153–178, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005474>.

Omelchenko:2006:SAT

- [OK06c] Y. A. Omelchenko and H. Karimabadi. Self-adaptive time integration of flux-conservative equations with sources. *Journal of Computational Physics*, 216(1):179–194, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005619>.

Omelchenko:2007:TAE

- [OK07a] Y. A. Omelchenko and H. Karimabadi. A time-accurate explicit multi-scale technique for gas dynamics. *Journal of Computational Physics*, 226(1):282–300, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700157X>.

Ozgun:2007:NFP

- [OK07b] Ozlem Ozgun and Mustafa Kuzuoglu. Near-field performance analysis of locally-conformal perfectly matched absorbers via Monte Carlo simulations. *Journal of Computational Physics*, 227(2):1225–1245, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003919>.

Oh:2001:NMO

- [OKL01] Hae-Soo Oh, Hoonjoo Kim, and Sung-Jin Lee. The numerical methods for oscillating singularities in elliptic boundary value problems. *Journal of Computational Physics*, 170(2):742–763, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967592>.

Oosterlee:2007:P

- [OKV07] Kees Oosterlee, Barry Koren, and Kees Vuik. Preface. *Journal of Computational Physics*, 224(1):1–2, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001398>.

Olsson:2007:CLS

- [OKZ07] Elin Olsson, Gunilla Kreiss, and Sara Zahedi. A conservative level set method for two phase flow II. *Journal of Computational Physics*, 225(1):785–807, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000046>.

Omnes:2001:SCN

- [OL01] P. Omnes and P. Louvet. Self-consistent numerical simulation of isotope separation by selective ion cyclotron resonance heating in a magnetically confined plasma. *Journal of Computational Physics*, 172(1):326–347, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968263>.

OConnor:2008:ARE

- [OLA08] Patrick D. O'Connor, Lyle N. Long, and James B. Anderson. Accurate rate expressions for simulations of gas-phase chemical reactions. *Journal of Computational Physics*, 227(16):7664–7673, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002556>.

Ong:2003:FAT

- [OLLL03] E. T. Ong, K. M. Lim, K. H. Lee, and H. P. Lee. A fast algorithm for three-dimensional potential fields calculation: fast Fourier transform on multipoles. *Journal of Computational Physics*, 192(1):244–261, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003772>.

Olson:2007:ESM

- [Ols07] Gordon L. Olson. Efficient solution of multi-dimensional flux-limited nonequilibrium radiation diffusion coupled to material conduction with second-order time discretization. *Journal of Computational Physics*, 226(1):1181–1195, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002276>.

Olson:2009:SOT

- [Ols09] Gordon L. Olson. Second-order time evolution of P_N equations for radiation transport. *Journal of Computational Physics*, 228(8):3072–3083, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000278>.

Othmer:2002:CSC

- [OMG02] C. Othmer, U. Motschmann, and K. H. Glassmeier. Creation of spatial charge separation in plasmas with rigorously charge-conserving local electromagnetic field solvers. *Journal of Computational Physics*, 180(1):99–109, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970774>.

Ozgun:2009:PCB

- [OMK09] Ozlem Ozgun, Raj Mittra, and Mustafa Kuzuoglu. Parallelized characteristic basis finite element method (CBFEM-MPI) — a non-iterative domain decomposition algorithm for electromagnetic scattering problems. *Journal of Computational Physics*, 228(6):2225–2238, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006293>.

Otani:2008:PFM

- [ON08] Yoshihiro Otani and Naoshi Nishimura. A periodic FMM for Maxwell’s equations in 3D and its applications to problems related to photonic crystals. *Journal of Computational Physics*, 227(9):4630–4652, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000442>.

Oden:2002:EME

- [OP02] J. Tinsley Oden and Serge Prudhomme. Estimation of modeling error in computational mechanics. *Journal of Computational Physics*, 182(2):496–515, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971834>.

Onofri:2007:CMN

- [OPML07] Marco Onofri, Leonardo Primavera, Francesco Malara, and Pasquale Londrillo. A compressible magnetohydrodynamic numerical code with time-dependent boundary conditions in cylindrical geometry. *Journal of Computational Physics*, 226(2):1874–1890, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002677>.

Oliver:2006:SME

- [ORM06] H. J. Oliver, A. H. Reiman, and D. A. Monticello. Solving the 3D MHD equilibrium equations in toroidal geometry by Newton’s method. *Journal of Computational Physics*, 211(1):99–128, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999105002640>.

Osher:2001:LSMb

- [OS01] Stanley J. Osher and Fadil Santosa. Level set methods for optimization problems involving geometry and constraints: I. Frequencies of a two-density inhomogeneous drum. *Journal of Computational Physics*, 171(1):272–288, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967890>.

Ober:2004:SAT

- [OS04] Curtis C. Ober and John N. Shadid. Studies on the accuracy of time-integration methods for the radiation-diffusion equations. *Journal of Computational Physics*, 195(2):743–772, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005813>.

Oevermann:2009:SIF

- [OSK09] M. Oevermann, C. Scharfenberg, and R. Klein. A sharp interface finite volume method for elliptic equations on Cartesian grids. *Journal of Computational Physics*, 228(14):5184–5206, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001971>.

Osher:2001:P

- [OT01] S. J. Osher and G. Tryggvason. PREFACE. *Journal of Computational Physics*, 169(2):249, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968044>.

Otani:2000:CMC

- [Ota00] Niels F. Otani. Computer modeling in cardiac electrophysiology. *Journal of Computational Physics*, 161(1):21–34, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964428>.

Oishi:2008:ITS

- [OTCM08] Cassio M. Oishi, Murilo F. Tomé, José A. Cuminato, and Sean McKee. An implicit technique for solving 3D low Reynolds number moving free surface flows. *Journal of Computational Physics*, 227(16):7446–7468, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002271>.

Oden:2000:ELM

- [OV00] J. Tinsley Oden and Kumar S. Vemaganti. Estimation of local modeling error and goal-oriented adaptive modeling of heterogeneous materials: I. Error estimates and adaptive algorithms. *Journal of Computational Physics*, 164(1):22–47, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965859>.

Onate:2007:MIF

- [OVG07] Eugenio Oñate, Aleix Valls, and Julio García. Modeling incompressible flows at low and high Reynolds numbers via a finite calculus-finite element approach. *Journal of Computational Physics*, 224(1):332–351, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000794>.

Ovtchinnikov:2008:CSE

- [Ovt08] E. E. Ovtchinnikov. Computing several eigenpairs of Hermitian problems by conjugate gradient iterations. *Journal of Computational Physics*, 227(22):9477–9497, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800363X>.

Owen:2004:TAV

- [Owe04] J. Michael Owen. A tensor artificial viscosity for SPH. *Journal of Computational Physics*, 201(2):601–629, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002578>.

Ohwada:2004:KSF

- [OX04] Taku Ohwada and Kun Xu. The kinetic scheme for the full-Burnett equations. *Journal of Computational Physics*, 201(1):315–332, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002311>.

Puri:2000:SAC

- [PA00] Rajeev K. Puri and Joerg Aichelin. Simulated annealing clusterization algorithm for studying the multifragmentation. *Journal of Computational Physics*, 162(1):245–266, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965343>.

Polizzi:2005:SDA

- [PA05] E. Polizzi and N. Ben Abdallah. Subband decomposition approach for the simulation of quantum electron transport in nanostructures. *Journal of Computational Physics*, 202(1):150–180, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002712>.

Plyasunov:2007:ESS

- [PA07a] Sergey Plyasunov and Adam P. Arkin. Efficient stochastic sensitivity analysis of discrete event systems. *Journal of Computational Physics*, 221(2):724–738, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003135>.

Premnath:2007:TDM

- [PA07b] Kannan N. Premnath and John Abraham. Three-dimensional multi-relaxation time (MRT) lattice-Boltzmann models for multiphase flow. *Journal of Computational Physics*, 224(2):539–559, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004815>.

Panaretos:2007:EDL

- [PAD07] Anastasios H. Panaretos, James T. Aberle, and Rodolfo E. Díaz. The effect of the 2-D Laplacian operator approximation on the performance of finite-difference time-domain schemes for Maxwell's equations. *Journal of Computational Physics*, 227(1):513–536, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003452>.

Paisley:2001:MSI

- [Pai01] M. F. Paisley. Multigrid solution of the incompressible Navier–Stokes equations for density-stratified flow past three-dimensional obstacles. *Journal of Computational Physics*, 170(2):785–811, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967622>.

Pal:2008:RDS

- [Pal08] Barnana Pal. Relaxation dynamics in small clusters: a modified Monte Carlo approach. *Journal of Computational Physics*, 227(4):2666–2673, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004986>.

Papadakis:2008:NPV

- [Pap08] George Papadakis. A novel pressure-velocity formulation and solution method for fluid-structure interaction problems. *Journal of Computational Physics*, 227(6):3383–3404, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005542>.

Parker:2002:NGP

- [Par02] Scott E. Parker. Nearest-grid-point interpolation in gyrokinetic particle-in-cell simulation. *Journal of Computational Physics*, 178(2):520–532, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970397>.

Paul:2007:CPQ

- [Pau07] Gerald Paul. A complexity $O(1)$ priority queue for event driven molecular dynamics simulations. *Journal of Computational Physics*, 221(2):615–625, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003081>.

Pavlyukevich:2007:LFN

- [Pav07] Ilya Pavlyukevich. Lévy flights, non-local search and simulated annealing. *Journal of Computational Physics*, 226(2):1830–1844, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700263X>.

Plagne:2000:TBS

- [PB00] Laurent Plagne and Jean-Yves Berthou. Tensorial basis spline collocation method for Poisson’s equation. *Journal of Computational Physics*, 157(2):419–440, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963386>.

Protas:2004:CFR

- [PBH04] Bartosz Protas, Thomas R. Bewley, and Greg Hagen. A computational framework for the regularization of adjoint analysis in multiscale PDE systems. *Journal of Computational Physics*, 195(1):49–89, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005114>.

Polasek:2002:EEM

- [PC02] Martin Polásek and Petr Cársky. Efficient evaluation of the matrix elements of the Coulomb potential between plane waves and Gaussians. *Journal of Computational Physics*, 181(1):1–8, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297124X>.

Park:2006:UOS

- [PC06a] Moongyu Park and John H. Cushman. On upscaling operator-stable Lévy motions in fractal porous media. *Journal of Computational Physics*, 217(1):159–165, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000362>.

Pretorius:2006:AMR

- [PC06b] Frans Pretorius and Matthew W. Choptuik. Adaptive mesh refinement for coupled elliptic-hyperbolic systems. *Journal of Computational Physics*, 218(1):246–274, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000805>.

Parashar:2008:SFA

- [PC08] R. Parashar and J. H. Cushman. Scaling the fractional advective-dispersive equation for numerical evaluation of microbial dynamics in confined geometries with sticky boundaries. *Journal of Computational Physics*, 227(13):6598–6611, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800171X>.

Propp:2000:NMT

- [PCCD00] Richard M. Propp, Phillip Colella, William Y. Crutchfield, and Marcus S. Day. A numerical model for trickle bed reactors. *Journal of Computational Physics*, 165(2):311–333, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096604X>.

Philip:2008:IAM

- [PCP08] Bobby Philip, Luis Chacón, and Michael Pernice. Implicit adaptive mesh refinement for 2D reduced resistive magnetohydrodynamics. *Journal of Computational Physics*, 227(20):8855–8874, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003598>.

Podlubny:2009:MAD

- [PCS⁺09] Igor Podlubny, Aleksei Chechkin, Tomas Skovranek, YangQuan Chen, and Blas M. Vinagre Jara. Matrix approach to discrete fractional calculus II: Partial fractional differential equations. *Journal of Computational Physics*, 228(8):3137–3153, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000321>.

Pandolfi:2001:NIU

- [PD01] Maurizio Pandolfi and Domenic D’Ambrosio. Numerical instabilities in upwind methods: Analysis and cures for the “carbuncle” phenomenon. *Journal of Computational Physics*, 166(2):271–301, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096652X>.

Pantano:2007:LND

- [PDHP07] C. Pantano, R. Deiterding, D. J. Hill, and D. I. Pullin. A low numerical dissipation patch-based adaptive mesh refinement method for large-eddy simulation of compressible flows. *Journal of Computational Physics*, 221(1):63–87, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002750>.

Poette:2009:UQS

- [PDL09] Gaël Poëtte, Bruno Després, and Didier Lucor. Uncertainty quantification for systems of conservation laws. *Journal of Computational Physics*, 228(7):2443–2467, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006372>.

Peeren:2003:SFA

- [Pee03] G. N. Peeren. Stream function approach for determining optimal surface currents. *Journal of Computational Physics*, 191(1):305–321, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003206>.

Perot:2000:CPU

- [Per00] Blair Perot. Conservation properties of unstructured staggered mesh schemes. *Journal of Computational Physics*, 159(1):58–89, March 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964246>.

Petersson:2001:SPB

- [Pet01] N. Anders Petersson. Stability of pressure boundary conditions for Stokes and Navier–Stokes equations. *Journal of Computational Physics*, 172(1):40–70, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967543>.

Peter:2007:QDS

- [Pet07] William Peter. Quiet direct simulation Monte–Carlo with random timesteps. *Journal of Computational Physics*, 221(1):1–8, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002713>.

Picard:2001:ACS

- [PFB01] Richard R. Picard, Mark Fitzgerald, and Michael J. Brown. Accelerating convergence in stochastic particle dispersion simulation codes. *Journal of Computational Physics*, 173(1):231–255, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968743>.

Petitpas:2007:RPM

- [PFSL07] Fabien Petitpas, Erwin Franquet, Richard Saurel, and Olivier Le Métayer. A relaxation-projection method for compressible flows. Part II: Artificial heat exchanges for multiphase shocks. *Journal of Computational Physics*, 225(2):2214–2248, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001283>.

Pan:2002:DSM

- [PG02a] Tsorng-Whay Pan and Roland Glowinski. Direct simulation of the motion of neutrally buoyant circular cylin-

ders in plane Poiseuille flow. *Journal of Computational Physics*, 181(1):260–279, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971238>.

Proot:2002:LSS

- [PG02b] M. M. J. Proot and M. I. Gerritsma. Least-squares spectral elements applied to the Stokes problem. *Journal of Computational Physics*, 181(2):454–477, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971378>.

Pierce:2004:ADE

- [PG04] Niles A. Pierce and Michael B. Giles. Adjoint and defect error bounding and correction for functional estimates. *Journal of Computational Physics*, 200(2):769–794, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001883>.

Papa:2005:CMD

- [PGB05] M. Papa, G. Giuliani, and A. Bonasera. Constrained molecular dynamics II: An N -body approach to nuclear systems. *Journal of Computational Physics*, 208(2):403–415, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000847>.

Prax:2008:CVM

- [PGN08] C. Prax, F. Golanski, and L. Nadal. Control of the vorticity mode in the linearized Euler equations for hybrid aeroacoustic prediction. *Journal of Computational Physics*, 227(12):6044–6057, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001186>.

Perrin:2006:EFD

- [PH06] A. Perrin and H. H. Hu. An explicit finite-difference scheme for simulation of moving particles. *Journal of Computational Physics*, 212(1):166–187, February 10, 2006. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003153>.

Perrin:2008:EFD

- [PH08] A. Perrin and H. H. Hu. An explicit finite difference scheme with spectral boundary conditions for particulate flows. *Journal of Computational Physics*, 227(20):8776–8791, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003161>.

Patacchini:2009:ETR

- [PH09] L. Patacchini and I. H. Hutchinson. Explicit time-reversible orbit integration in particle in cell codes with static homogeneous magnetic field. *Journal of Computational Physics*, 228(7):2604–2615, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006608>.

Pons:2006:MPC

- [PHKF06] J.-P. Pons, G. Hermosillo, R. Keriven, and O. Faugeras. Maintaining the point correspondence in the level set framework. *Journal of Computational Physics*, 220(1):339–354, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002440>.

He:2009:CSS

- [pHL09] Li ping He and Yunxian Liu. A class of stable spectral methods for the Cahn–Hilliard equation. *Journal of Computational Physics*, 228(14):5101–5110, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001909>.

Petersen:2008:EFL

- [PHW08] Mark R. Petersen, Matthew W. Hecht, and Beth A. Wingate. Efficient form of the LANS- α turbulence model in a primitive-equation ocean model. *Journal of Computational Physics*, 227(11):5717–5735, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S002199910800106X>.

Pettersson:2009:NAB

- [PIN09] Per Pettersson, Gianluca Iaccarino, and Jan Nordström. Numerical analysis of the Burgers' equation in the presence of uncertainty. *Journal of Computational Physics*, 228(22):8394–8412, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004471>.

Pirozzoli:2002:CHC

- [Pir02] Sergio Pirozzoli. Conservative hybrid compact-WENO schemes for shock-turbulence interaction. *Journal of Computational Physics*, 178(1):81–117, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297021X>.

Pirozzoli:2006:SPS

- [Pir06] Sergio Pirozzoli. On the spectral properties of shock-capturing schemes. *Journal of Computational Physics*, 219(2):489–497, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003482>.

Pirozzoli:2007:PAO

- [Pir07] Sergio Pirozzoli. Performance analysis and optimization of finite-difference schemes for wave propagation problems. *Journal of Computational Physics*, 222(2):809–831, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003962>.

Plapp:2000:MFD

- [PK00] Mathis Plapp and Alain Karma. Multiscale finite-difference-diffusion-Monte-Carlo method for simulating dendritic solidification. *Journal of Computational Physics*, 165(2):592–619, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966348>.

Park:2003:DMG

- [PK03] Soo Hyung Park and Jang Hyuk Kwon. On the dissipation mechanism of Godunov-type schemes. *Journal of Computational Physics*, 188(2):524–542, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001918>.

Pivkin:2005:NMI

- [PK05] Igor V. Pivkin and George Em Karniadakis. A new method to impose no-slip boundary conditions in dissipative particle dynamics. *Journal of Computational Physics*, 207(1):114–128, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000197>.

Poludnenko:2007:CFF

- [PK07] Alexei Y. Poludnenko and Alexei M. Khokhlov. Computation of fluid flows in non-inertial contracting, expanding, and rotating reference frames. *Journal of Computational Physics*, 220(2):678–711, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002555>.

Pandit:2007:THO

- [PKD07] Swapan K. Pandit, Jiten C. Kalita, and D. C. Dalal. A transient higher order compact scheme for incompressible viscous flows on geometries beyond rectangular. *Journal of Computational Physics*, 225(1):1100–1124, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000319>.

Park:2005:TDB

- [PKKL05] Harold S. Park, Eduard G. Karpov, Patrick A. Klein, and Wing Kam Liu. Three-dimensional bridging scale analysis of dynamic fracture. *Journal of Computational Physics*, 207(2):588–609, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000422>.

Pereira:2001:FOA

- [PKP01] J. M. C. Pereira, M. H. Kobayashi, and J. C. F. Pereira. A fourth-order-accurate finite volume compact method for the incompressible Navier–Stokes solutions. *Journal of Computational Physics*, 167(1):217–243, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966737>.

Pelekanos:2000:WFC

- [PKvdB00] George Pelekanos, Ralph E. Kleinman, and Peter M. van den Berg. A weak form of the conjugate gradient FFT method for two-dimensional elastodynamics. *Journal of Computational Physics*, 160(2):597–611, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964763>.

Piriaux:2001:NIM

- [PL01] Joël Piriaux and Bruno Lombard. A new interface method for hyperbolic problems with discontinuous coefficients: One-dimensional acoustic example. *Journal of Computational Physics*, 168(1):227–248, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966963>.

Pretorius:2004:AMR

- [PL04] Frans Pretorius and Luis Lehner. Adaptive mesh refinement for characteristic codes. *Journal of Computational Physics*, 198(1):10–34, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000166>.

Putman:2007:FVT

- [PL07] William M. Putman and Shian-Jiann Lin. Finite-volume transport on various cubed-sphere grids. *Journal of Computational Physics*, 227(1):55–78, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003105>.

Protas:2008:ABOa

- [PL08] Bartosz Protas and Wenyuan Liao. Adjoint-based optimization of PDEs in moving domains. *Journal of Computational Physics*, 227(4):2707–2723, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005001>.

Park:2009:EMT

- [PL09a] Won-Kwang Park and Dominique Lesselier. Electromagnetic MUSIC-type imaging of perfectly conducting, arc-like cracks at single frequency. *Journal of Computational Physics*, 228(21):8093–8111, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004173>.

Patil:2009:FVT

- [PL09b] Dhiraj V. Patil and K. N. Lakshmisha. Finite volume TVD formulation of lattice Boltzmann simulation on unstructured mesh. *Journal of Computational Physics*, 228(14):5262–5279, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002010>.

Petersen:2009:HMP

- [PLS⁺09] Dan Erik Petersen, Song Li, Kurt Stokbro, Hans Henrik B. Sørensen, Per Christian Hansen, Stig Skelboe, and Eric Darve. A hybrid method for the parallel computation of Green’s functions. *Journal of Computational Physics*, 228(14):5020–5039, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001648>.

Povitsky:2000:HOC

- [PM00] Alex Povitsky and Philip J. Morris. A higher-order compact method in space and time based on parallel implementation of the Thomas algorithm. *Journal of Computational Physics*, 161(1):182–203, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964970>.

Parshikov:2002:SPH

- [PM02] Anatoly N. Parshikov and Stanislav A. Medin. Smoothed particle hydrodynamics using interparticle contact algorithms. *Journal of Computational Physics*, 180(1):358–382, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970993>.

Park:2007:ANE

- [PM07] Noma Park and Krishnan Mahesh. Analysis of numerical errors in large eddy simulation using statistical closure theory. *Journal of Computational Physics*, 222(1):194–216, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003512>.

Park:2008:VES

- [PM08] Noma Park and Krishnan Mahesh. A velocity-estimation sub-grid model constrained by subgrid scale dissipation. *Journal of Computational Physics*, 227(8):4190–4206, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005700>.

Popov:2008:ATA

- [PMP08] Pavel P. Popov, Randall McDermott, and Stephen B. Pope. An accurate time advancement algorithm for particle tracking. *Journal of Computational Physics*, 227(20):8792–8806, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003446>.

Perot:2003:MUS

- [PN03] Blair Perot and Ramesh Nallapati. A moving unstructured staggered mesh method for the simulation of incompressible free-surface flows. *Journal of Computational Physics*, 184(1):192–214, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910200027X>.

Park:2009:PBP

- [PNMK09] HyeonKae Park, Robert R. Nourgaliev, Richard C. Martineau, and Dana A. Knoll. On physics-based preconditioning of the Navier–Stokes equations. *Journal of Computational Physics*, 228(24):9131–9146, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109005002>.

Prosperetti:2001:PNM

- [PO01] A. Prosperetti and H. N. Ögğüz. Physalis: a new $o(N)$ method for the numerical simulation of disperse systems: Potential flow of spheres. *Journal of Computational Physics*, 167(1):196–216, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966671>.

Ponta:2005:KLE

- [Pon05] F. L. Ponta. The kinematic Laplacian equation method. *Journal of Computational Physics*, 207(2):405–426, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000355>.

Pontaza:2006:LSF

- [Pon06] J. P. Pontaza. A least-squares finite element formulation for unsteady incompressible flows with improved velocity-pressure coupling. *Journal of Computational Physics*, 217(2):563–588, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000234>.

Pontaza:2007:NCS

- [Pon07a] J. P. Pontaza. A new consistent splitting scheme for incompressible Navier–Stokes flows: a least-squares spectral element implementation. *Journal of Computational Physics*, 225(2):1590–1602, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000708>.

- [Pon07b] J. P. Pontaza. A spectral element least-squares formulation for incompressible Navier–Stokes flows using triangular nodal elements. *Journal of Computational Physics*, 221(2):649–665, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600310X>. **Pontaza:2007:SEL**
- [Pon09] Philippe Poncet. Analysis of an immersed boundary method for three-dimensional flows in vorticity formulation. *Journal of Computational Physics*, 228(19):7268–7288, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003465>. **Poncet:2009:AIB**
- [Pop00] Lucretiu M. Popescu. An extension of alias sampling method for parametrized probability distributions. *Journal of Computational Physics*, 160(2):612–622, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964775>. **Popescu:2000:EAS**
- [Pop03] Stéphane Popinet. Gerris: a tree-based adaptive solver for the incompressible Euler equations in complex geometries. *Journal of Computational Physics*, 190(2):572–600, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002985>. **Popinet:2003:GTB**
- [Pop09] Stéphane Popinet. An accurate adaptive solver for surface-tension-driven interfacial flows. *Journal of Computational Physics*, 228(16):5838–5866, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900240X>. **Popinet:2009:AAS**
- [POS00] Michael E. Potter, Michal Okoniewski, and Maria A. Stuchly. Low frequency finite difference time domain (FDTD) for **Potter:2000:LFF**

modeling of induced fields in humans close to line sources. *Journal of Computational Physics*, 162(1):82–103, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965239>.

Pozrikidis:2001:IDS

- [Poz01a] C. Pozrikidis. Interfacial dynamics for Stokes flow. *Journal of Computational Physics*, 169(2):250–301, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965823>.

Pozrikidis:2001:NRD

- [Poz01b] C. Pozrikidis. A note on the regularization of the discrete Poisson–Neumann problem. *Journal of Computational Physics*, 172(2):917–923, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968573>.

Pilliod:2004:SOA

- [PP04] James Edward Pilliod, Jr. and Elbridge Gerry Puckett. Second-order accurate volume-of-fluid algorithms for tracking material interfaces. *Journal of Computational Physics*, 199(2):465–502, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000920>.

Parussini:2009:FDA

- [PP09] Lucia Parussini and Valentino Pediroda. Fictitious Domain approach with hp-finite element approximation for incompressible fluid flow. *Journal of Computational Physics*, 228(10):3891–3910, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001107>.

Premnath:2009:SSC

- [PPB09] Kannan N. Premnath, Martin J. Pattison, and Sanjoy Banerjee. Steady state convergence acceleration of the generalized lattice Boltzmann equation with forcing term through preconditioning. *Journal of Computational*

Physics, 228(3):746–769, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005111>.

Pascarelli:2000:MBL

- [PPC00] Andrea Pascarelli, Ugo Piomelli, and Graham V. Candler. Multi-block large-eddy simulations of turbulent boundary layers. *Journal of Computational Physics*, 157(1):256–279, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199919996374X>.

Peinetti:2006:PCM

- [PPCW06] F. Peinetti, F. Peano, G. Coppa, and J. Wurtele. Particle-in-cell method for parallel dynamics in magnetized electron plasmas: Study of high-amplitude BGK modes. *Journal of Computational Physics*, 218(1):102–122, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000623>.

Pantano:2008:AHR

- [PPDM08] C. Pantano, D. I. Pullin, P. E. Dimotakis, and G. Mathieu. LES approach for high Reynolds number wall-bounded flows with application to turbulent channel flow. *Journal of Computational Physics*, 227(21):9271–9291, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002209>.

Palmer:2000:LBA

- [PR00] Bruce J. Palmer and David R. Rector. Lattice Boltzmann algorithm for simulating thermal flow in compressible fluids. *Journal of Computational Physics*, 161(1):1–20, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964258>.

Park:2001:SMN

- [PR01a] H. M. Park and D. H. Ryu. A solution method of nonlinear convective stability problems in finite domains. *Journal of Computational Physics*, 170(1):141–160, June 10, 2001.

CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967282>.

Persson:2001:SWF

- [PR01b] Per-Olof Persson and Olof Runborg. Simulation of a waveguide filter using wavelet-based numerical homogenization. *Journal of Computational Physics*, 166(2):361–382, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966622>.

Pontaza:2003:SHL

- [PR03] J. P. Pontaza and J. N. Reddy. Spectral/hp least-squares finite element formulation for the Navier–Stokes equations. *Journal of Computational Physics*, 190(2):523–549, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002961>.

Pasquetti:2004:SEM

- [PR04a] Richard Pasquetti and Francesca Rapetti. Spectral element methods on triangles and quadrilaterals: comparisons and applications. *Journal of Computational Physics*, 198(1):349–362, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000324>.

Pontaza:2004:STC

- [PR04b] J. P. Pontaza and J. N. Reddy. Space–time coupled spectral/hp least-squares finite element formulation for the incompressible Navier–Stokes equations. *Journal of Computational Physics*, 197(2):418–459, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006466>.

Prabhakar:2006:SHP

- [PR06] V. Prabhakar and J. N. Reddy. Spectral/hp penalty least-squares finite element formulation for the steady incompressible Navier–Stokes equations. *Journal of Computational Physics*, 215(1):274–297, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004882>.

Price:2008:MDK

- [Pri08] Daniel J. Price. Modelling discontinuities and Kelvin–Helmholtz instabilities in SPH. *Journal of Computational Physics*, 227(24):10040–10057, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004270>.

Pruett:2003:ABA

- [PRL03] C. David Pruett, Joseph W. Rudmin, and Justin M. Lacy. An adaptive N -body algorithm of optimal order. *Journal of Computational Physics*, 187(1):298–317, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001013>.

Probert:2003:IAG

- [Pro03] M. I. J. Probert. Improved algorithm for geometry optimisation using damped molecular dynamics. *Journal of Computational Physics*, 191(1):130–146, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003085>.

Prosser:2005:IBC

- [Pro05] R. Prosser. Improved boundary conditions for the direct numerical simulation of turbulent subsonic flows. I. Inviscid flows. *Journal of Computational Physics*, 207(2):736–768, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000495>.

Prosser:2007:TIB

- [Pro07] R. Prosser. Towards improved boundary conditions for the DNS and LES of turbulent subsonic flows. *Journal of Computational Physics*, 222(2):469–474, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004438>.

Protas:2008:ABOb

- [Pro08] Bartosz Protas. Adjoint-based optimization of PDE systems with alternative gradients. *Journal of Computational Physics*, 227(13):6490–6510, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001575>.

Pareschi:2000:FSM

- [PRT00] L. Pareschi, G. Russo, and G. Toscani. Fast spectral methods for the Fokker–Planck–Landau collision operator. *Journal of Computational Physics*, 165(1):216–236, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966129>.

Pillapakam:2001:LSM

- [PS01] S. B. Pillapakam and P. Singh. A level-set method for computing solutions to viscoelastic two-phase flow. *Journal of Computational Physics*, 174(2):552–578, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196927X>.

Parent:2002:UDD

- [PS02] Bernard Parent and Jean P. Sislian. The use of domain decomposition in accelerating the convergence of quasihyperbolic systems. *Journal of Computational Physics*, 179(1):140–169, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970488>.

Park:2003:SIN

- [PS03a] H. M. Park and H. J. Shin. Shape identification for natural convection problems using the adjoint variable method. *Journal of Computational Physics*, 186(1):198–211, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000469>.

Prusa:2003:ASA

- [PS03b] Joseph M. Prusa and Piotr K. Smolarkiewicz. An all-scale anelastic model for geophysical flows: dynamic

grid deformation. *Journal of Computational Physics*, 190(2):601–622, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002997>.

Filler:2004:FVC

- [PS04] M. Piller and E. Stalio. Finite-volume compact schemes on staggered grids. *Journal of Computational Physics*, 197(1):299–340, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006314>.

Perigaud:2005:CFM

- [PS05] Guillaume Perigaud and Richard Saurel. A compressible flow model with capillary effects. *Journal of Computational Physics*, 209(1):139–178, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001853>.

Perot:2007:DCA

- [PS07a] J. B. Perot and V. Subramanian. A discrete calculus analysis of the Keller box scheme and a generalization of the method to arbitrary meshes. *Journal of Computational Physics*, 226(1):494–508, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001696>.

Perot:2007:DCM

- [PS07b] J. B. Perot and V. Subramanian. Discrete calculus methods for diffusion. *Journal of Computational Physics*, 224(1):59–81, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006127>.

Pinnau:2007:MRT

- [PS07c] René Pinnau and Alexander Schulze. Model reduction techniques for frequency averaging in radiative heat transfer. *Journal of Computational Physics*, 226(1):712–731, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002033>.

Pyo:2007:GUM

- [PS07d] Jae-Hong Pyo and Jie Shen. Gauge-Uzawa methods for incompressible flows with variable density. *Journal of Computational Physics*, 221(1):181–197, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002816>.

Piller:2008:CFV

- [PS08] M. Piller and E. Stalio. Compact finite volume schemes on boundary-fitted grids. *Journal of Computational Physics*, 227(9):4736–4762, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800048X>.

Peng:2004:ITL

- [PSC04] Y. Peng, C. Shu, and Y. T. Chew. A 3D incompressible thermal lattice Boltzmann model and its application to simulate natural convection in a cubic cavity. *Journal of Computational Physics*, 193(1):260–274, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004303>.

Peng:2006:AMB

- [PSC⁺06] Y. Peng, C. Shu, Y. T. Chew, X. D. Niu, and X. Y. Lu. Application of multi-block approach in the immersed boundary-lattice Boltzmann method for viscous fluid flows. *Journal of Computational Physics*, 218(2):460–478, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000933>.

Pancheshnyi:2008:NSF

- [PSCB08] S. Pancheshnyi, P. Ségur, J. Capeillère, and A. Bourdon. Numerical simulation of filamentary discharges with parallel adaptive mesh refinement. *Journal of Computational Physics*, 227(13):6574–6590, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001691>.

Peng:2003:NIF

- [PSCQ03] Y. Peng, C. Shu, Y. T. Chew, and J. Qiu. Numerical investigation of flows in Czochralski crystal growth by an axisymmetric lattice Boltzmann method. *Journal of Computational Physics*, 186(1):295–307, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000676>.

Parand:2009:RLP

- [PSD09] K. Parand, M. Shahini, and Mehdi Dehghan. Rational Legendre pseudospectral approach for solving nonlinear differential equations of Lane–Emden type. *Journal of Computational Physics*, 228(23):8830–8840, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004720>.

Popescu:2005:FVT

- [PSG05] Mihaela Popescu, Wei Shyy, and Marc Garbey. Finite volume treatment of dispersion-relation-preserving and optimized prefactored compact schemes for wave propagation. *Journal of Computational Physics*, 210(2):705–729, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002585>.

Petersen:2008:BTM

- [PSH⁺08] Dan Erik Petersen, Hans Henrik B. Sørensen, Per Christian Hansen, Stig Skelboe, and Kurt Stokbro. Block tridiagonal matrix inversion and fast transmission calculations. *Journal of Computational Physics*, 227(6):3174–3190, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005177>.

Posta:2008:COG

- [PSM08] F. Posta, S. Y. Shvartsman, and C. B. Muratov. Compensated optimal grids for elliptic boundary-value problems.

Journal of Computational Physics, 227(19):8622–8635, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003331>.

Piotrowski:2009:NRT

- [PSMW09] Zbigniew P. Piotrowski, Piotr K. Smolarkiewicz, Szymon P. Malinowski, and Andrzej A. Wyszogrodzki. On numerical realizability of thermal convection. *Journal of Computational Physics*, 228(17):6268–6290, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002745>.

Protas:2000:EAC

- [PSN00] B. Protas, A. Styczek, and A. Nowakowski. An effective approach to computation of forces in viscous incompressible flows. *Journal of Computational Physics*, 159(2):231–245, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964337>.

Pavliotis:2009:CED

- [PSZ09] G. A. Pavliotis, A. M. Stuart, and K. C. Zygalakis. Calculating effective diffusivities in the limit of vanishing molecular diffusion. *Journal of Computational Physics*, 228(4):1030–1055, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005378>.

Pudykiewicz:2006:NSR

- [Pud06] Janusz A. Pudykiewicz. Numerical solution of the reaction-advection-diffusion equation on the sphere. *Journal of Computational Physics*, 213(1):358–390, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003840>.

Pesch:2008:DGF

- [PvdV08] L. Pesch and J. J. W. van der Vegt. A discontinuous Galerkin finite element discretization of the Euler equations for compressible and incompressible fluids. *Journal of Computational Physics*, 227(11):5426–5446, May 10, 2008. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000831>.

Preis:2009:GAM

- [PVPS09] Tobias Preis, Peter Virnau, Wolfgang Paul, and Johannes J. Schneider. GPU accelerated Monte Carlo simulation of the 2D and 3D Ising model. *Journal of Computational Physics*, 228(12):4468–4477, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001387>.

Pollet:2007:ELO

- [PVR07] Lode Pollet, Kris Van Houcke, and Stefan M. A. Rombouts. Engineering local optimality in quantum Monte Carlo algorithms. *Journal of Computational Physics*, 225(2):2249–2266, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001295>.

Pavarino:2000:OSM

- [PW00a] Luca F. Pavarino and Timothy Warburton. Overlapping Schwarz methods for unstructured spectral elements. *Journal of Computational Physics*, 160(1):298–317, May 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964635>.

Ploumhans:2000:VMH

- [PW00b] P. Ploumhans and G. S. Winckelmans. Vortex methods for high-resolution simulations of viscous flow past bluff bodies of general geometry. *Journal of Computational Physics*, 165(2):354–406, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966142>. See erratum [PW01].

Ploumhans:2001:EVM

- [PW01] P. Ploumhans and G. S. Winckelmans. Erratum: “Vortex Methods for High-Resolution Simulations of Viscous Flow Past Bluff Bodies of General Geometry”: Volume

165, Number 2 (2000), pages 354–406. *Journal of Computational Physics*, 170(1):449–456, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968329>. See [PW00b].

Paffrath:2007:APC

- [PW07] M. Paffrath and U. Wever. Adapted polynomial chaos expansion for failure detection. *Journal of Computational Physics*, 226(1):263–281, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001568>.

Polifke:2006:PRN

- [PWM06] Wolfgang Polifke, Clifton Wall, and Parviz Moin. Partially reflecting and non-reflecting boundary conditions for simulation of compressible viscous flow. *Journal of Computational Physics*, 213(1):437–449, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003876>.

Ploumhans:2002:VMD

- [PWS⁺02] P. Ploumhans, G. S. Winckelmans, J. K. Salmon, A. Leonard, and M. S. Warren. Vortex methods for direct numerical simulation of three-dimensional bluff body flows: Application to the sphere at $Re = 300, 500$, and 1000 . *Journal of Computational Physics*, 178(2):427–463, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297035X>.

Plaskota:2000:NAW

- [PWW00] Leszek Plaskota, Grzegorz W. Wasilkowski, and Henryk Woźniakowski. A new algorithm and worst case complexity for Feynman–Kac path integration. *Journal of Computational Physics*, 164(2):335–353, November 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965999>.

Pasquetti:2002:CFB

- [PX02] R. Pasquetti and C. J. Xu. Comments on “Filter-Based Stabilization of Spectral Element Methods”. *Journal of Computational Physics*, 182(2):646–650, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971780>. See P. Fischer and J. Mullen, C. R. Acad. Sci. Paris, **332** (2001), p. 265.

Park:2004:DEL

- [PYC04] Noma Park, Jung Yul Yoo, and Haecheon Choi. Discretization errors in large eddy simulation: on the suitability of centered and upwind-biased compact difference schemes. *Journal of Computational Physics*, 198(2):580–616, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000531>.

Qamar:2009:HOK

- [QA09] Shamsul Qamar and Munshoor Ahmed. A high order kinetic flux-vector splitting method for the reduced five-equation model of compressible two-fluid flows. *Journal of Computational Physics*, 228(24):9059–9078, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004951>.

Quartapelle:2003:SRP

- [QCGQ03] L. Quartapelle, L. Castelletti, A. Guardone, and G. Quaranta. Solution of the Riemann problem of classical gasdynamics. *Journal of Computational Physics*, 190(1):118–140, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002675>.

Qiang:2004:PPC

- [QFR04] Ji Qiang, Miguel A. Furman, and Robert D. Ryne. A parallel particle-in-cell model for beam-beam interaction in high energy ring colliders. *Journal of Computational Physics*, 198(1):278–294, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000282>.

Qiu:2006:NSP

- [QKS06] Jianxian Qiu, Boo Cheong Khoo, and Chi-Wang Shu. A numerical study for the performance of the Runge–Kutta discontinuous Galerkin method based on different numerical fluxes. *Journal of Computational Physics*, 212(2):540–565, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003451>.

Qin:2001:MMM

- [QL01] Zhaohui S. Qin and Jun S. Liu. Multipoint Metropolis method with application to hybrid Monte Carlo. *Journal of Computational Physics*, 172(2):827–840, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968603>.

Qian:2004:LSB

- [QL04] Jianliang Qian and Shingyu Leung. A level set based Eulerian method for paraxial multivalued traveltimes. *Journal of Computational Physics*, 197(2):711–736, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000154>.

Qiu:2007:RKD

- [QLK07] Jianxian Qiu, Tiegang Liu, and Boo Cheong Khoo. Runge–Kutta discontinuous Galerkin methods for compressible two-medium flow simulations: One-dimensional case. *Journal of Computational Physics*, 222(1):353–373, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003561>.

Quan:2009:MMB

- [QLS09] Shaoping Quan, Jing Lou, and David P. Schmidt. Modeling merging and breakup in the moving mesh interface tracking method for multiphase flow simulations. *Journal of Computational Physics*, 228(7):2660–2675, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800675X>.

Quispel:2003:EVP

- [QM03] G. R. W. Quispel and D. I. McLaren. Explicit volume-preserving and symplectic integrators for trigonometric polynomial flows. *Journal of Computational Physics*, 186(1):308–316, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000688>.

Quecedo:2003:FEM

- [QP03] M. Quecedo and M. Pastor. Finite element modelling of free surface flows on inclined and curved beds. *Journal of Computational Physics*, 189(1):45–62, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002006>.

Qiang:2000:OOP

- [QRHD00] Ji Qiang, Robert D. Ryne, Salman Habib, and Viktor Decyk. An object-oriented parallel particle-in-cell code for beam dynamics simulation in linear accelerators. *Journal of Computational Physics*, 163(2):434–451, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965707>.

Qian:2001:PES

- [QS01] Jianliang Qian and William W. Symes. Paraxial eikonal solvers for anisotropic quasi- P travel times. *Journal of Computational Physics*, 173(1):256–278, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968755>.

Qiu:2002:CCL

- [QS02] Jianxian Qiu and Chi-Wang Shu. On the construction, comparison, and local characteristic decomposition for high-order central WENO schemes. *Journal of Computational Physics*, 183(1):187–209, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971913>.

Qiu:2004:HWS

- [QS04] Jianxian Qiu and Chi-Wang Shu. Hermite WENO schemes and their application as limiters for Runge–Kutta discontinuous Galerkin method: one-dimensional case. *Journal of Computational Physics*, 193(1):115–135, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004212>.

Qiu:2005:HWS

- [QS05] Jianxian Qiu and Chi-Wang Shu. Hermite WENO schemes for Hamilton–Jacobi equations. *Journal of Computational Physics*, 204(1):82–99, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004085>.

Quan:2007:MMI

- [QS07] Shaoping Quan and David P. Schmidt. A moving mesh interface tracking method for 3D incompressible two-phase flows. *Journal of Computational Physics*, 221(2):761–780, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003159>.

Qasimov:2008:LBS

- [QT08] H. Qasimov and S. Tsynkov. Lacunae based stabilization of PMLs. *Journal of Computational Physics*, 227(15):7322–7345, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002301>.

Qian:2001:VBM

- [QV01] L. Qian and M. Vezza. A vorticity-based method for incompressible unsteady viscous flows. *Journal of Computational Physics*, 172(2):515–542, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968354>.

Qamar:2005:HOK

- [QW05] Shamsul Qamar and Gerald Warnecke. A high-order kinetic flux-splitting method for the relativistic magnetohydro-

dynamics. *Journal of Computational Physics*, 205(1):182–204, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004632>.

Rendall:2009:EMM

- [RA09] T. C. S. Rendall and C. B. Allen. Efficient mesh motion using radial basis functions with data reduction algorithms. *Journal of Computational Physics*, 228(17):6231–6249, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002721>.

Ramire:2007:GFD

- [RAB07] Isabelle Ramière, Philippe Angot, and Michel Belliard. A general fictitious domain method with immersed jumps and multilevel nested structured meshes. *Journal of Computational Physics*, 225(2):1347–1387, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000460>.

Ricchiuto:2007:ACR

- [RAD07] M. Ricchiuto, R. Abgrall, and H. Deconinck. Application of conservative residual distribution schemes to the solution of the shallow water equations on unstructured meshes. *Journal of Computational Physics*, 222(1):287–331, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002853>.

Rahmouni:2004:AMD

- [Rah04] Adib N. Rahmouni. An algebraic method to develop well-posed PML models: Absorbing layers, perfectly matched layers, linearized Euler equations. *Journal of Computational Physics*, 197(1):99–115, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006211>.

Ramos:2003:NAU

- [Ram03] Rubens Viana Ramos. Numerical algorithms for use in quantum information. *Journal of Computational Physics*, 192

(1):95–104, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003486>.

Ramirez:2006:MCA

- [Ram06] Jorge M. Ramirez. Multiplicative cascades applied to PDEs (two numerical examples). *Journal of Computational Physics*, 214(1):122–136, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004262>.

Rylander:2002:SEI

- [RB02] Thomas Rylander and Anders Bondeson. Stability of explicit-implicit hybrid time-stepping schemes for Maxwell’s equations. *Journal of Computational Physics*, 179(2):426–438, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970634>.

Raad:2005:TDE

- [RB05] Peter E. Raad and Razvan Bidoae. The three-dimensional Eulerian–Lagrangian marker and micro cell method for the simulation of free surface flows. *Journal of Computational Physics*, 203(2):668–699, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003985>.

Rahul:2006:OSF

- [RB06] Kumar Rahul and S. N. Bhattacharyya. One-sided finite-difference approximations suitable for use with Richardson extrapolation. *Journal of Computational Physics*, 219(1):13–20, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600266X>.

Ricchiuto:2009:SRD

- [RB09a] Mario Ricchiuto and Andreas Bollermann. Stabilized residual distribution for shallow water simulations. *Journal of Computational Physics*, 228(4):1071–1115, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005391>.

Rieper:2009:ICG

- [RB09b] Felix Rieper and Georg Bader. The influence of cell geometry on the accuracy of upwind schemes in the low Mach number regime. *Journal of Computational Physics*, 228(8):2918–2933, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000096>.

Remaki:2003:IAI

- [RBH03] L. Remaki, H. Beaugendre, and W. G. Habashi. ISOD — an anisotropic isovalue-oriented diffusion artificial viscosity for the Euler and Navier–Stokes equations. *Journal of Computational Physics*, 186(1):279–294, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000664>.

Ruf:2009:RSS

- [RBK09] Matthias Ruf, Heiko Bauke, and Christoph H. Keitel. A real space split operator method for the Klein–Gordon equation. *Journal of Computational Physics*, 228(24):9092–9106, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004975>.

Rossmannith:2004:WPA

- [RBL04] James A. Rossmannith, Derek S. Bale, and Randall J. LeVeque. A wave propagation algorithm for hyperbolic systems on curved manifolds. *Journal of Computational Physics*, 199(2):631–662, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400110X>.

Restelli:2006:SLD

- [RBS06] M. Restelli, L. Bonaventura, and R. Sacco. A semi-Lagrangian discontinuous Galerkin method for scalar advection by incompressible flows. *Journal of Computational Physics*, 216(1):195–215, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999105005486>.

Ramboer:2006:OTI

- [RBSL06] Jan Ramboer, Tim Broeckhoven, Sergey Smirnov, and Chris Lacor. Optimization of time integration schemes coupled to spatial discretization for use in CAA applications. *Journal of Computational Physics*, 213(2):777–802, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500416X>.

Rogers:2003:MBF

- [RBT03] Benedict D. Rogers, Alistair G. L. Borthwick, and Paul H. Taylor. Mathematical balancing of flux gradient and source terms prior to using Roe’s approximate Riemann solver. *Journal of Computational Physics*, 192(2):422–451, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004029>.

Rhebergen:2008:DGf

- [RBvdV08] S. Rhebergen, O. Bokhove, and J. J. W. van der Vegt. Discontinuous Galerkin finite element methods for hyperbolic non-conservative partial differential equations. *Journal of Computational Physics*, 227(3):1887–1922, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004391>.

Rowley:2000:DNB

- [RC00] Clarence W. Rowley and Tim Colonius. Discretely nonreflecting boundary conditions for linear hyperbolic systems. *Journal of Computational Physics*, 157(2):500–538, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963830>.

Rochette:2006:TDC

- [RC06] D. Rochette and S. Clain. Two-dimensional computation of gas flow in a porous bed characterized by a porosity jump. *Journal of Computational Physics*, 219(1):104–119, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001422>.

Raga:2009:FFM

- [RC09a] A. C. Raga and J. Cantó. A family of functions for mass and energy flux splitting of the Euler equations. *Journal of Computational Physics*, 228(23):8908–8918, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004914>.

Ryan:2009:LDP

- [RC09b] Jennifer K. Ryan and Bernardo Cockburn. Local derivative post-processing for the discontinuous Galerkin method. *Journal of Computational Physics*, 228(23):8642–8664, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004616>.

Rosatti:2005:SIS

- [RCB05] G. Rosatti, D. Cesari, and L. Bonaventura. Semi-implicit, semi-Lagrangian modelling for environmental problems on staggered Cartesian grids with cut cells. *Journal of Computational Physics*, 204(1):353–377, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004206>.

Ricchiuto:2005:RDG

- [RCD05] Mario Ricchiuto, Árpád Csík, and Herman Deconinck. Residual distribution for general time-dependent conservation laws. *Journal of Computational Physics*, 209(1):249–289, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500118X>.

Rangan:2007:NMS

- [RCT07] Aaditya V. Rangan, David Cai, and Louis Tao. Numerical methods for solving moment equations in kinetic theory of neuronal network dynamics. *Journal of Computational Physics*, 221(2):781–798, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003160>.

Rossiello:2007:TOA

- [RDPN07] G. Rossiello, P. De Palma, G. Pascazio, and M. Napolitano. Third-order-accurate fluctuation splitting schemes for unsteady hyperbolic problems. *Journal of Computational Physics*, 222(1):332–352, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003627>.

Ren:2005:HMM

- [RE05] Weiqing Ren and Weinan E. Heterogeneous multiscale method for the modeling of complex fluids and micro-fluidics. *Journal of Computational Physics*, 204(1):1–26, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004048>.

Rathinam:2007:REM

- [RE07] Muruhan Rathinam and Hana El Samad. Reversible-equivalent-monomolecular tau: a leaping method for “small number and stiff” stochastic chemical systems. *Journal of Computational Physics*, 224(2):897–923, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005547>.

Reich:2000:MSR

- [Rei00] Sebastian Reich. Multi-symplectic Runge–Kutta collocation methods for Hamiltonian wave equations. *Journal of Computational Physics*, 157(2):473–499, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963726>.

Remis:2000:SFD

- [Rem00] Rob F. Remis. On the stability of the finite-difference time-domain method. *Journal of Computational Physics*, 163(1):249–261, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965732>.

Remis:2006:SFN

- [Rem06] Rob F. Remis. Stability of FDTD on nonuniform grids for Maxwell's equations in lossless media. *Journal of Computational Physics*, 218(2):594–606, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001227>.

Ren:2007:ANS

- [Ren07] Weiqing Ren. Analytical and numerical study of coupled atomistic-continuum methods for fluids. *Journal of Computational Physics*, 227(2):1353–1371, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700397X>.

Rosatti:2006:WBA

- [RF06] G. Rosatti and L. Fraccarollo. A well-balanced approach for flows over mobile-bed with high sediment-transport. *Journal of Computational Physics*, 220(1):312–338, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002439>.

Rosenberg:2006:GAS

- [RFFP06] Duane Rosenberg, Aimé Fournier, Paul Fischer, and Annick Pouquet. Geophysical-astrophysical spectral-element adaptive refinement (GASpAR): Object-oriented h -adaptive fluid dynamics simulation. *Journal of Computational Physics*, 215(1):59–80, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004791>.

Rouizi:2009:NMR

- [RFVP09] Y. Rouizi, Y. Favennec, J. Ventura, and D. Petit. Numerical model reduction of 2D steady incompressible laminar flows: Application on the flow over a backward-facing step. *Journal of Computational Physics*, 228(6):2239–2255, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800630X>.

Rider:2007:AME

- [RGK07] William J. Rider, Jeffrey A. Greenough, and James R. Kamm. Accurate monotonicity- and extrema-preserving methods through adaptive nonlinear hybridizations. *Journal of Computational Physics*, 225(2):1827–1848, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000897>.

Reis:2004:NSI

- [RGS04] Neyval C. Reis, Jr., Richard F. Griffiths, and Jane M. Santos. Numerical simulation of the impact of liquid droplets on porous surfaces. *Journal of Computational Physics*, 198(2):747–770, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000610>.

Rasetarinera:2001:EID

- [RH01a] Patrick Rasetarinera and M. Y. Hussaini. An efficient implicit discontinuous spectral Galerkin method. *Journal of Computational Physics*, 172(2):718–738, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968536>.

Rivoalen:2001:PSE

- [RH01b] E. Rivoalen and S. Huberson. The particle strength exchange method applied to axisymmetric viscous flows. *Journal of Computational Physics*, 168(2):519–526, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967129>.

Ruuth:2005:HOL

- [RH05] Steven J. Ruuth and Willem Hundsdorfer. High-order linear multistep methods with general monotonicity and boundedness properties. *Journal of Computational Physics*, 209(1):226–248, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000951>.

Reynolds:2009:SCS

- [RHPN09] Daniel R. Reynolds, John C. Hayes, Pascal Paschos, and Michael L. Norman. Self-consistent solution of cosmological radiation-hydrodynamics and chemical ionization. *Journal of Computational Physics*, 228(18):6833–6854, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003258>.

Rider:2000:RWH

- [Rid00] William J. Rider. Revisiting Wall heating. *Journal of Computational Physics*, 162(2):395–410, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965446>.

Rylander:2004:PML

- [RJ04] Thomas Rylander and Jian-Ming Jin. Perfectly matched layer for the time domain finite element method. *Journal of Computational Physics*, 200(1):238–250, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001652>.

Rembold:2006:MJP

- [RJ06] B. Rembold and P. Jenny. A multiblock joint PDF finite-volume hybrid algorithm for the computation of turbulent flows in complex geometries. *Journal of Computational Physics*, 220(1):59–87, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002221>.

Rosam:2007:FIF

- [RJM07] J. Rosam, P. K. Jimack, and A. Mullis. A fully implicit, fully adaptive time and space discretisation method for phase-field simulation of binary alloy solidification. *Journal of Computational Physics*, 225(2):1271–1287, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000393>.

Rospsha:2007:CFF

- [RK07] Nimrod Rospsha and Raphael Kastner. Closed form FDTD-compatible Green's function based on combinatorics. *Journal of Computational Physics*, 226(1):798–817, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002070>.

Riyanti:2007:PMB

- [RKE⁺07] C. D. Riyanti, A. Kononov, Y. A. Erlangga, C. Vuik, C. W. Oosterlee, R.-E. Plessix, and W. A. Mulder. A parallel multigrid-based preconditioner for the 3D heterogeneous high-frequency Helmholtz equation. *Journal of Computational Physics*, 224(1):431–448, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001477>.

Ricci:2002:SIM

- [RLB02] Paolo Ricci, Giovanni Lapenta, and J. U. Brackbill. A simplified implicit Maxwell solver. *Journal of Computational Physics*, 183(1):117–141, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971706>.

Ren:2003:CWH

- [RLZ03] Yu-Xin Ren, Miao'er Liu, and Hanxin Zhang. A characteristic-wise hybrid compact-WENO scheme for solving hyperbolic conservation laws. *Journal of Computational Physics*, 192(2):365–386, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300398X>.

Rider:2001:SMM

- [RM01a] William J. Rider and Len G. Margolin. Simple modifications of monotonicity-preserving limiter. *Journal of Computational Physics*, 174(1):473–488, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969141>.

Ruuth:2001:CTM

- [RM01b] Steven J. Ruuth and Barry Merriman. Convolution-thresholding methods for interface motion. *Journal of Computational Physics*, 169(2):678–707, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096580X>.

Rupert:2007:APC

- [RM07] C. P. Rupert and C. T. Miller. An analysis of polynomial chaos approximations for modeling single-fluid-phase flow in porous medium systems. *Journal of Computational Physics*, 226(2):2175–2205, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700304X>.

Ruuth:2008:SEM

- [RM08] Steven J. Ruuth and Barry Merriman. A simple embedding method for solving partial differential equations on surfaces. *Journal of Computational Physics*, 227(3):1943–1961, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700441X>.

Raessi:2007:ANV

- [RMB07] M. Raessi, J. Mostaghimi, and M. Bussmann. Advecting normal vectors: a new method for calculating interface normals and curvatures when modeling two-phase flows. *Journal of Computational Physics*, 226(1):774–797, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002069>.

Rosatti:2008:GRS

- [RMF08] G. Rosatti, J. Murillo, and L. Fraccarollo. Generalized Roe schemes for 1D two-phase, free-surface flows over a mobile bed. *Journal of Computational Physics*, 227(24):10058–10077, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004282>.

Riber:2009:ENS

- [RMG⁺09] E. Riber, V. Moureau, M. García, T. Poinso, and O. Simonin. Evaluation of numerical strategies for large eddy simulation of particulate two-phase recirculating flows. *Journal of Computational Physics*, 228(2):539–564, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005238>.

Rico-Martinez:2004:CPK

- [RMGK04] R. Rico-Martínez, C. W. Gear, and Ioannis G. Kevrekidis. Coarse projective kMC integration: forward/reverse initial and boundary value problems. *Journal of Computational Physics*, 196(2):474–489, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006053>.

Ruuth:2000:FGM

- [RMO00] Steven J. Ruuth, Barry Merriman, and Stanley Osher. A fixed grid method for capturing the motion of self-intersecting wavefronts and related PDEs. *Journal of Computational Physics*, 163(1):1–21, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964805>.

Ricot:2009:LBM

- [RMSB09] Denis Ricot, Simon Marié, Pierre Sagaut, and Christophe Bailly. Lattice Boltzmann method with selective viscosity filter. *Journal of Computational Physics*, 228(12):4478–4490, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001399>.

Rylander:2003:ERF

- [RMV03] Thomas Rylander, Tomas McKelvey, and Mats Viberg. Estimation of resonant frequencies and quality factors from time domain computations. *Journal of Computational Physics*, 192(2):523–545, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004078>.

Romano:2002:SSM

- [Rom02] Vittorio Romano. 2D simulation of a silicon MESFET with a nonparabolic hydrodynamical model based on the maximum entropy principle. *Journal of Computational Physics*, 176(1):70–92, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969682>.

Romano:2007:NSM

- [Rom07] V. Romano. 2D numerical simulation of the MEP energy-transport model with a finite difference scheme. *Journal of Computational Physics*, 221(2):439–468, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600297X>.

Rossow:2000:FSS

- [Ros00] Cord-Christian Rossow. A flux-splitting scheme for compressible and incompressible flows. *Journal of Computational Physics*, 164(1):104–122, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965860>.

Rossow:2003:BPD

- [Ros03] C.-C. Rossow. A blended pressure/density based method for the computation of incompressible and compressible flows. *Journal of Computational Physics*, 185(2):375–398, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000591>.

Rosmanith:2006:WPM

- [Ros06] James A. Rosmanith. A wave propagation method for hyperbolic systems on the sphere. *Journal of Computational Physics*, 213(2):629–658, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003967>.

Rossow:2007:ECC

- [Ros07] Cord-Christian Rossow. Efficient computation of compressible and incompressible flows. *Journal of Computational Physics*, 220(2):879–899, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002658>.

Rossmanith:2008:CRD

- [Ros08] James A. Rossmanith. A class of residual distribution schemes and their relation to relaxation systems. *Journal of Computational Physics*, 227(22):9527–9553, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003665>.

Rossi:2009:DNS

- [Ros09] Riccardo Rossi. Direct numerical simulation of scalar transport using unstructured finite-volume schemes. *Journal of Computational Physics*, 228(5):1639–1657, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005871>.

Roy:2005:RCS

- [Roy05] Christopher J. Roy. Review of code and solution verification procedures for computational simulation. *Journal of Computational Physics*, 205(1):131–156, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004619>.

Ren:2008:SOS

- [RP08a] Zhuyin Ren and Stephen B. Pope. Second-order splitting schemes for a class of reactive systems. *Journal of Computational Physics*, 227(17):8165–8176, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003057>.

Rosakis:2008:D

- [RP08b] Ares Rosakis and Dale Pullin. Dedication. *Journal of Computational Physics*, 227(21):9006–9007, November 10, 2008.

CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004269>.

Renardy:2002:PPR

- [RR02] Yuriko Renardy and Michael Renardy. PROST: a parabolic reconstruction of surface tension for the volume-of-fluid method. *Journal of Computational Physics*, 183(2):400–421, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971901>.

Ramlau:2007:MSL

- [RR07] Ronny Ramlau and Wolfgang Ring. A Mumford–Shah level-set approach for the inversion and segmentation of X-ray tomography data. *Journal of Computational Physics*, 221(2):539–557, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003020>.

Recine:2005:NST

- [RRC05] Greg Recine, Bernard Rosen, and Hong-Liang Cui. Numerical simulation of two-dimensional electron transport in cylindrical nanostructures using Wigner function methods. *Journal of Computational Physics*, 209(2):421–447, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001361>.

Renardy:2001:NSM

- [RRL01] Michael Renardy, Yuriko Renardy, and Jie Li. Numerical simulation of moving contact line problems using a volume-of-fluid method. *Journal of Computational Physics*, 171(1):243–263, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967853>.

Reese:2001:MCA

- [RRV01] J. S. Reese, S. Raimondeau, and D. G. Vlachos. Monte Carlo algorithms for complex surface reaction mechanisms: Efficiency and accuracy. *Journal of Computa-*

tional Physics, 173(1):302–321, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968779>.

Ratz:2006:SEE

- [RRV06] Andreas Rätz, Angel Ribalta, and Axel Voigt. Surface evolution of elastically stressed films under deposition by a diffuse interface model. *Journal of Computational Physics*, 214(1):187–208, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004304>.

Rieben:2005:HOM

- [RRW05] R. N. Rieben, G. H. Rodrigue, and D. A. White. A high order mixed vector finite element method for solving the time dependent Maxwell equations on unstructured grids. *Journal of Computational Physics*, 204(2):490–519, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004255>.

Russo:2000:RCD

- [RS00] Giovanni Russo and Peter Smereka. A remark on computing distance functions. *Journal of Computational Physics*, 163(1):51–67, September 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965537>.

Ramos:2002:CQE

- [RS02] Rubens Viana Ramos and Rui Fragassi Souza. Calculation of the quantum entanglement measure of bipartite states, based on relative entropy, using genetic algorithms. *Journal of Computational Physics*, 175(2):576–583, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969578>.

Ropp:2005:SOS

- [RS05] David L. Ropp and John N. Shadid. Stability of operator splitting methods for systems with indefinite op-

erators: reaction-diffusion systems. *Journal of Computational Physics*, 203(2):449–466, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003870>.

Ren:2006:MDU

- [RS06a] Yu-Xin Ren and Yutao Sun. A multi-dimensional upwind scheme for solving Euler and Navier–Stokes equations. *Journal of Computational Physics*, 219(1):391–403, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001689>.

Russo:2006:CSE

- [RS06b] Giovanni Russo and Peter Smereka. Computation of strained epitaxial growth in three dimensions by kinetic Monte Carlo. *Journal of Computational Physics*, 214(2):809–828, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004742>.

Ropp:2009:SOS

- [RS09a] David L. Ropp and John N. Shadid. Stability of operator splitting methods for systems with indefinite operators: Advection-diffusion-reaction systems. *Journal of Computational Physics*, 228(9):3508–3516, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000679>.

Roy:2009:GES

- [RS09b] Christopher J. Roy and Andrew J. Sinclair. On the generation of exact solutions for evaluating numerical schemes and estimating discretization error. *Journal of Computational Physics*, 228(5):1790–1802, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005949>.

Rasin:2005:MRL

- [RSM05] Igor Rasin, Sauro Succi, and Wolfram Miller. A multi-relaxation lattice kinetic method for passive scalar diffusion.

Journal of Computational Physics, 206(2):453–462, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005224>.

Ropp:2004:SAT

- [RSO04] David L. Ropp, John N. Shadid, and Curtis C. Ober. Studies of the accuracy of time integration methods for reaction-diffusion equations. *Journal of Computational Physics*, 194(2):544–574, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004947>.

Raza:2009:SGA

- [RSS09] Nauman Raza, Sultan Sial, and Shahid S. Siddiqi. Sobolev gradient approach for the time evolution related to energy minimization of Ginzburg–Landau functionals. *Journal of Computational Physics*, 228(7):2566–2571, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006529>.

Raza:2009:EMR

- [RSSL09] Nauman Raza, Sultan Sial, Shahid S. Siddiqi, and Turab Lookman. Energy minimization related to the non-linear Schrödinger equation. *Journal of Computational Physics*, 228(7):2572–2577, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006530>.

Roussel:2003:CFA

- [RSTB03] Olivier Roussel, Kai Schneider, Alexei Tsigulin, and Henning Bockhorn. A conservative fully adaptive multiresolution algorithm for parabolic PDEs. *Journal of Computational Physics*, 188(2):493–523, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300189X>.

Reynolds:2006:FIN

- [RSW06] Daniel R. Reynolds, Ravi Samtaney, and Carol S. Woodward. A fully implicit numerical method for single-fluid resistive magnetohydrodynamics. *Journal of Computational Physics*, 219(1):144–162, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001446>.

Ryabenkii:2001:GDA

- [RTT01] V. S. Ryaben’kii, S. V. Tsynkov, and V. I. Turchaninov. Global discrete artificial boundary conditions for time-dependent wave propagation. *Journal of Computational Physics*, 174(2):712–758, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969360>.

Raimondeau:2000:LDA

- [RV00] S. Raimondeau and D. G. Vlachos. Low-dimensional approximations of multiscale epitaxial growth models for microstructure control of materials. *Journal of Computational Physics*, 160(2):564–576, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964738>.

Rus:2007:SSR

- [RV07] Francisco Rus and Francisco R. Villatoro. Self-similar radiation from numerical Rosenau–Hyman compactons. *Journal of Computational Physics*, 227(1):440–454, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003415>.

Rus:2009:APC

- [RV09] Francisco Rus and Francisco R. Villatoro. Adiabatic perturbations for compactons under dissipation and numerically-induced dissipation. *Journal of Computational Physics*, 228(11):4291–4302, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001314>.

Rauwoens:2009:CDC

- [RVDM09] Pieter Rauwoens, Jan Vierendeels, Erik Dick, and Bart Merci. A conservative discrete compatibility-constraint low-Mach pressure-correction algorithm for time-accurate simulations of variable density flows. *Journal of Computational Physics*, 228(13):4714–4744, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001466>.

Rauwoens:2007:SOE

- [RVM07] Pieter Rauwoens, Jan Vierendeels, and Bart Merci. A solution for the odd-even decoupling problem in pressure-correction algorithms for variable density flows. *Journal of Computational Physics*, 227(1):79–99, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700321X>.

Rubinacci:2009:FTA

- [RVVL09] Guglielmo Rubinacci, Salvatore Ventre, Fabio Villone, and Yueqiang Liu. A fast technique applied to the analysis of resistive Wall modes with 3D conducting structures. *Journal of Computational Physics*, 228(5):1562–1572, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005822>.

Ren:2000:IGR

- [RW00] Weiqing Ren and Xiao-Ping Wang. An iterative grid redistribution method for singular problems in multiple dimensions. *Journal of Computational Physics*, 159(2):246–273, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964350>.

Russell:2003:CGM

- [RW03] David Russell and Z. Jane Wang. A Cartesian grid method for modeling multiple moving objects in 2D incompressible viscous flow. *Journal of Computational Physics*, 191(1):177–205, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003103>.

Ripoll:2008:DMC

- [RW08] J.-F. Ripoll and A. A. Wray. A 3-D multiband closure for radiation and neutron transfer moment models. *Journal of Computational Physics*, 227(4):2212–2237, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003853>.

Reisner:2003:EPB

- [RWMK03] Jon Reisner, Andrzej Wyszogrodzki, Vincent Mousseau, and Dana Knoll. An efficient physics-based preconditioner for the fully implicit solution of small-scale thermally driven atmospheric flows. *Journal of Computational Physics*, 189(1):30–44, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001980>.

Rieben:2007:ALE

- [RWWS07] R. N. Rieben, D. A. White, B. K. Wallin, and J. M. Solberg. An arbitrary Lagrangian–Eulerian discretization of MHD on 3D unstructured grids. *Journal of Computational Physics*, 226(1):534–570, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001714>.

Rognlien:2002:API

- [RXH02] T. D. Rognlien, X. Q. Xu, and A. C. Hindmarsh. Application of parallel implicit methods to edge-plasma numerical simulations. *Journal of Computational Physics*, 175(1):249–268, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196944X>.

Ryckelynck:2005:PHM

- [Ryc05] D. Ryckelynck. A priori hyperreduction method: an adaptive approach. *Journal of Computational Physics*, 202(1):346–366, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400289X>.

Shim:2006:HAA

- [SA06] Yunsic Shim and Jacques G. Amar. Hybrid asynchronous algorithm for parallel kinetic Monte Carlo simulations of thin film growth. *Journal of Computational Physics*, 212(1):305–317, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003220>.

Sircombe:2009:VSC

- [SA09] N. J. Sircombe and T. D. Arber. VALIS: a split-conservative scheme for the relativistic 2D Vlasov–Maxwell system. *Journal of Computational Physics*, 228(13):4773–4788, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001636>.

Sacchetti:2007:SSM

- [Sac07] Andrea Sacchetti. Spectral splitting method for nonlinear Schrödinger equations with singular potential. *Journal of Computational Physics*, 227(2):1483–1499, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004196>.

Safouhi:2000:HHM

- [Saf00] Hassan Safouhi. The HD and HD[−] methods for accelerating the convergence of three-center nuclear attraction and four-center two-electron Coulomb integrals over *B* functions and their convergence properties. *Journal of Computational Physics*, 165(2):473–495, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096621X>.

Safouhi:2002:ERN

- [Saf02] Hassan Safouhi. Efficient and rapid numerical evaluation of the two-electron, four-center Coulomb integrals using nonlinear transformations and useful properties of sine and Bessel functions. *Journal of Computational Physics*, 176(1):1–19, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969256>.

Saito:2002:NAD

- [Sai02] T. Saito. Numerical analysis of dusty-gas flows. *Journal of Computational Physics*, 176(1):129–144, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969712>.

Schlatter:2005:WMP

- [SAK05] P. Schlatter, N. A. Adams, and L. Kleiser. A windowing method for periodic inflow/outflow boundary treatment of non-periodic flows. *Journal of Computational Physics*, 206(2):505–535, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000021>.

Shin:2005:ARS

- [SAKDJ05] Seungwon Shin, S. I. Abdel-Khalik, Virginie Daru, and Damir Juric. Accurate representation of surface tension using the level contour reconstruction method. *Journal of Computational Physics*, 203(2):493–516, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003894>.

Shirani:2005:IPC

- [SAM05] E. Shirani, N. Ashgriz, and J. Mostaghimi. Interface pressure calculation based on conservation of momentum for front capturing methods. *Journal of Computational Physics*, 203(1):154–175, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003225>.

Samtaney:2009:MSL

- [Sam09] Ravi Samtaney. A method to simulate linear stability of impulsively accelerated density interfaces in ideal-MHD and gas dynamics. *Journal of Computational Physics*, 228(18):6773–6783, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003118>.

Sandu:2001:PNI

- [San01] Adrian Sandu. Positive numerical integration methods for chemical kinetic systems. *Journal of Computational Physics*, 170(2):589–602, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967506>.

SanMiguel:2003:SAT

- [San03] A. San Miguel. Stabilization and attitude of a triaxial rigid body by Lie group methods. *Journal of Computational Physics*, 191(1):75–96, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003061>.

Sarra:2003:CSS

- [Sar03] Scott A. Sarra. Chebyshev super spectral viscosity method for a fluidized bed model. *Journal of Computational Physics*, 186(2):630–651, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000895>.

Saut:2004:CMU

- [Sau04] Olivier Saut. Computational modeling of ultrashort powerful laser pulses in a nonlinear crystal. *Journal of Computational Physics*, 197(2):624–646, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006557>.

Sun:2002:DSM

- [SB02] Quanhua Sun and Iain D. Boyd. A direct simulation method for subsonic, microscale gas flows. *Journal of Computational Physics*, 179(2):400–425, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970610>.

Sridar:2003:UFD

- [SB03] D. Sridar and N. Balakrishnan. An upwind finite difference scheme for meshless solvers. *Journal of Compu-*

tational Physics, 189(1):1–29, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001979>.

Safouhi:2006:FTM

- [SB06a] Hassan Safouhi and Lilian Berlu. The Fourier transform method and the $S\bar{D}$ approach for the analytical and numerical treatment of multicenter overlap-like quantum similarity integrals. *Journal of Computational Physics*, 216(1):19–36, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005401>.

Schwartzentruber:2006:HPC

- [SB06b] T. E. Schwartzentruber and I. D. Boyd. A hybrid particle-continuum method applied to shock waves. *Journal of Computational Physics*, 215(2):402–416, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004936>.

Sert:2006:SEF

- [SB06c] Cuneyt Sert and Ali Beskok. Spectral element formulations on non-conforming grids: a comparative study of pointwise matching and integral projection methods. *Journal of Computational Physics*, 211(1):300–325, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002767>.

Sun:2007:SIT

- [SB07] Y. Sun and C. Beckermann. Sharp interface tracking using the phase-field equation. *Journal of Computational Physics*, 220(2):626–653, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002531>.

Sharipov:2009:NSL

- [SB09] Felix Sharipov and Guilherme Bertoldo. Numerical solution of the linearized Boltzmann equation for an arbitrary intermolecular potential. *Journal of Computa-*

tional Physics, 228(9):3345–3357, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000394>.

Sahmim:2007:SMB

- [SBA07] Slah Sahmim, Fayssal Benkhaldoun, and Francisco Alcrudo. A sign matrix based scheme for non-homogeneous PDE's with an analysis of the convergence stagnation phenomenon. *Journal of Computational Physics*, 226(2):1753–1783, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002604>.

Sun:2004:HCP

- [SBC04] Quanhua Sun, Iain D. Boyd, and Graham V. Candler. A hybrid continuum/particle approach for modeling subsonic, rarefied gas flows. *Journal of Computational Physics*, 194(1):256–277, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004698>.

Schwartz:2006:CGE

- [SBCL06] Peter Schwartz, Michael Barad, Phillip Colella, and Terry Ligocki. A Cartesian grid embedded boundary method for the heat equation and Poisson's equation in three dimensions. *Journal of Computational Physics*, 211(2):531–550, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500286X>.

Schneider:2000:EFV

- [SBGK00] T. Schneider, N. Botta, K. J. Geratz, and R. Klein. Extension of finite volume compressible flow solvers to multi-dimensional, variable density zero Mach number flows: Volume 155, number 2 (1999), pages 248–286. *Journal of Computational Physics*, 158(2):262, March 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964568>.

Sherwin:2001:LEB

- [SC01] Spencer J. Sherwin and Mario Casarin. Low-energy basis preconditioning for elliptic substructured solvers based on unstructured spectral/hp element discretization. *Journal of Computational Physics*, 171(1):394–417, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968056>.

Sanyasiraju:2008:LRB

- [SC08a] Y. V. S. S. Sanyasiraju and G. Chandhini. Local radial basis function based gridfree scheme for unsteady incompressible viscous flows. *Journal of Computational Physics*, 227(20):8922–8948, October 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003690>.

Surana:2008:VDC

- [SC08b] Amit Surana and Darren Crowdy. Vortex dynamics in complex domains on a spherical surface. *Journal of Computational Physics*, 227(12):6058–6070, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001204>.

Sijoy:2009:FDT

- [SC09a] C. D. Sijoy and Shashank Chaturvedi. Finite difference time domain algorithm for electromagnetic problems involving material movement. *Journal of Computational Physics*, 228(6):2282–2295, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006347>.

Subbareddy:2009:FDK

- [SC09b] Pramod K. Subbareddy and Graham V. Candler. A fully discrete, kinetic energy consistent finite-volume scheme for compressible flows. *Journal of Computational Physics*, 228(5):1347–1364, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005573>.

Shestakov:2003:CSC

- [SCC⁺03a] A. I. Shestakov, R. H. Cohen, J. A. Crotinger, L. L. LoDestro, A. Tarditi, and X. Q. Xu. Corrigendum to: “Self-consistent modeling of turbulence and transport” [J. Comput. Phys. **185** (2003) 399–426]. *Journal of Computational Physics*, 186(1):360, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000470>. See [SCC⁺03b].

Shestakov:2003:SCM

- [SCC⁺03b] A. I. Shestakov, R. H. Cohen, J. A. Crotinger, L. L. LoDestro, A. Tarditi, and X. Q. Xu. Self-consistent modeling of turbulence and transport. *Journal of Computational Physics*, 185(2):399–426, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000633>. See corrigendum [SCC⁺03a].

Smithe:2009:DPA

- [SCC09] David N. Smithe, John R. Cary, and Johan A. Carlsson. Divergence preservation in the ADI algorithms for electromagnetics. *Journal of Computational Physics*, 228(19):7289–7299, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003489>.

Shu:2000:FVA

- [SCD00] C. Shu, W. Chen, and H. Du. Free vibration analysis of curvilinear quadrilateral plates by the differential quadrature method. *Journal of Computational Physics*, 163(2):452–466, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965768>.

Schulze:2008:EKM

- [Sch08] Tim P. Schulze. Efficient kinetic Monte Carlo simulation. *Journal of Computational Physics*, 227(4):2455–2462, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004755>.

Svard:2007:SHO

- [SCN07] Magnus Svård, Mark H. Carpenter, and Jan Nordström. A stable high-order finite difference scheme for the compressible Navier–Stokes equations, far-field boundary conditions. *Journal of Computational Physics*, 225(1):1020–1038, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000174>.

Sui:2008:HMS

- [SCRL08] Y. Sui, Y. T. Chew, P. Roy, and H. T. Low. A hybrid method to study flow-induced deformation of three-dimensional capsules. *Journal of Computational Physics*, 227(12):6351–6371, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001605>.

Shao:2006:ACG

- [SCT06] Sihong Shao, Wei Cai, and Huazhong Tang. Accurate calculation of Green’s function of the Schrödinger equation in a block layered potential. *Journal of Computational Physics*, 219(2):733–748, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002026>.

Servan-Camas:2009:NNS

- [SCT09] Borja Servan-Camas and Frank T.-C. Tsai. Non-negativity and stability analyses of lattice Boltzmann method for advection-diffusion equation. *Journal of Computational Physics*, 228(1):236–256, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004749>.

Smith:2009:IQD

- [SCW⁺09] M. R. Smith, H. M. Cave, J.-S. Wu, M. C. Jermy, and Y.-S. Chen. An improved quiet direct simulation method for Eulerian fluids using a second-order scheme. *Journal of Computational Physics*, 228(6):2213–2224, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006281>.

Sportisse:2000:RCK

- [SD00] Bruno Sportisse and Rafik Djouad. Reduction of chemical kinetics in air pollution modeling. *Journal of Computational Physics*, 164(2):354–376, November 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966014>.

Shapiro:2005:ACCa

- [SD05a] Evgeniy Shapiro and Dimitris Drikakis. Artificial compressibility, characteristics-based schemes for variable density, incompressible, multi-species flows. Part I. Derivation of different formulations and constant density limit. *Journal of Computational Physics*, 210(2):584–607, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002536>.

Shapiro:2005:ACCb

- [SD05b] Evgeniy Shapiro and Dimitris Drikakis. Artificial compressibility, characteristics-based schemes for variable-density, incompressible, multispecies flows: Part II. Multigrid implementation and numerical tests. *Journal of Computational Physics*, 210(2):608–631, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002548>.

Smith:2006:RRH

- [SD06] Robert K. Smith and David G. Dritschel. Revisiting the Rossby–Haurwitz wave test case with contour advection. *Journal of Computational Physics*, 217(2):473–484, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000180>.

Sandu:2005:ASA

- [SDCC05] Adrian Sandu, Dacian N. Daescu, Gregory R. Carmichael, and Tianfeng Chai. Adjoint sensitivity analysis of regional air quality models. *Journal of Computational Physics*, 204(1):222–252, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999104004140>.

Shay:2007:EFP

- [SDD07] M. A. Shay, J. F. Drake, and B. Dorland. Equation free projective integration: a multiscale method applied to a plasma ion acoustic wave. *Journal of Computational Physics*, 226(1):571–585, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001726>.

Samulyak:2007:NAM

- [SDGX07] Roman Samulyak, Jian Du, James Glimm, and Zhiliang Xu. A numerical algorithm for MHD of free surface flows at low magnetic Reynolds numbers. *Journal of Computational Physics*, 226(2):1532–1549, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002483>.

Schwartzkopff:2004:FHO

- [SDM04] Thomas Schwartzkopff, Michael Dumbser, and Claus-Dieter Munz. Fast high order ADER schemes for linear hyperbolic equations. *Journal of Computational Physics*, 197(2):532–539, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006508>.

Sengupta:2007:NCS

- [SDR07] T. K. Sengupta, A. Dipankar, and A. Kameswara Rao. A new compact scheme for parallel computing using domain decomposition. *Journal of Computational Physics*, 220(2):654–677, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002543>.

Sengupta:2007:EDB

- [SDS07] T. K. Sengupta, A. Dipankar, and P. Sagaut. Error dynamics: Beyond von Neumann analysis. *Journal of Computational Physics*, 226(2):1211–1218, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002537>.

Stock:2008:IVR

- [SDT08] Mark J. Stock, Werner J. A. Dahm, and Grétar Tryggvason. Impact of a vortex ring on a density interface using a regularized inviscid vortex sheet method. *Journal of Computational Physics*, 227(21):9021–9043, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002969>.

Shen:2004:FSH

- [SE04] Colin Y. Shen and Thomas E. Evans. A free-surface hydrodynamic model for density-stratified flow in the weakly to strongly non-hydrostatic regime. *Journal of Computational Physics*, 200(2):695–717, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001858>.

Sengil:2009:HEV

- [SE09] Nevsan Sengil and Firat O. Edis. Highly efficient volume generation reservoirs in molecular simulations of gas flows. *Journal of Computational Physics*, 228(12):4303–4308, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001442>.

Serna:2009:CBN

- [Ser09] Susana Serna. A characteristic-based nonconvex entropy-fix upwind scheme for the ideal magnetohydrodynamic equations. *Journal of Computational Physics*, 228(11):4232–4247, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001120>.

Sethian:2001:EIA

- [Set01] J. A. Sethian. Evolution, implementation, and application of level set and fast marching methods for advancing fronts. *Journal of Computational Physics*, 169(2):503–555, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966579>.

Sears:2003:NEM

- [SF03] Mark P. Sears and Laura J. D. Frink. A new efficient method for density functional theory calculations of inhomogeneous fluids. *Journal of Computational Physics*, 190(1):184–200, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002705>.

Saurel:2007:RPM

- [SFDL07] Richard Saurel, Erwin Franquet, Eric Daniel, and Olivier Le Métayer. A relaxation-projection method for compressible flows. Part I: The numerical equation of state for the Euler equations. *Journal of Computational Physics*, 223(2):822–845, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004761>.

Shahbazi:2007:HOD

- [SFE07] Khosro Shahbazi, Paul F. Fischer, and C. Ross Ethier. A high-order discontinuous Galerkin method for the unsteady incompressible Navier–Stokes equations. *Journal of Computational Physics*, 222(1):391–407, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003585>.

Suh:2006:CLE

- [SFMP06] Jungsoo Suh, Steven H. Frankel, Luc Mongeau, and Michael W. Plesniak. Compressible large eddy simulations of wall-bounded turbulent flows using a semi-implicit numerical scheme for low Mach number aeroacoustics. *Journal of Computational Physics*, 215(2):526–551, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005036>.

Shin:2006:NMI

- [SFVK06] C. S. Shin, M. C. Fivel, M. Verdier, and S. C. Kwon. Numerical methods to improve the computing efficiency of discrete dislocation dynamics simulations. *Journal of Com-*

putational Physics, 215(2):417–429, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004948>.

Steinhoff:2000:NEM

- [SFW00] John Steinhoff, Meng Fan, and Lesong Wang. A new Eulerian method for the computation of propagating short acoustic and electromagnetic pulses. *Journal of Computational Physics*, 157(2):683–706, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963891>.

Shen:2003:SSR

- [SFX03] Ching Shen, Jing Fan, and Chong Xie. Statistical simulation of rarefied gas flows in micro-channels. *Journal of Computational Physics*, 189(2):512–526, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002316>.

Schmidt:2001:TBC

- [SFY01] Frank Schmidt, Tilmann Frieze, and David Yevick. Transparent boundary conditions for split-step Padé approximations of the one-way Helmholtz equation. *Journal of Computational Physics*, 170(2):696–719, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967579>.

Sprague:2003:SEF

- [SG03a] Michael A. Sprague and Thomas L. Geers. Spectral elements and field separation for an acoustic fluid subject to cavitation. *Journal of Computational Physics*, 184(1):149–162, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000244>.

Sultanov:2003:IDE

- [SG03b] Renat A. Sultanov and Dennis Guster. Integral-differential equations approach to atomic three-body systems. *Journal of Computational Physics*, 192(1):231–243, November 20,

2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003735>.

Schmitz:2006:DVS

- [SG06] H. Schmitz and R. Grauer. Darwin–Vlasov simulations of magnetised plasmas. *Journal of Computational Physics*, 214(2):738–756, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004717>.

Sengupta:2003:ACU

- [SGD03] T. K. Sengupta, G. Ganeriwal, and S. De. Analysis of central and upwind compact schemes. *Journal of Computational Physics*, 192(2):677–694, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004133>.

Schofield:2009:SOA

- [SGFL09] Samuel P. Schofield, Rao V. Garimella, Marianne M. François, and Raphaël Loubère. A second-order accurate material-order-independent interface reconstruction technique for multi-material flow simulations. *Journal of Computational Physics*, 228(3):731–745, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005081>.

Sovinec:2004:NMS

- [SGG⁺04] C. R. Sovinec, A. H. Glasser, T. A. Gianakon, D. C. Barnes, R. A. Nebel, S. E. Kruger, D. D. Schnack, S. J. Plimpton, A. Tarditi, M. S. Chu, and the NIMROD Team. Nonlinear magnetohydrodynamics simulation using high-order finite elements. *Journal of Computational Physics*, 195(1):355–386, March 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005369>.

Schlamp:2007:HMV

- [SH07a] Stefan Schlamp and Bryan C. Hathorn. Higher moments of the velocity distribution function in dense-gas shocks. *Jour-*

nal of Computational Physics, 223(1):305–315, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004384>.

Shanker:2007:ACE

- [SH07b] B. Shanker and H. Huang. Accelerated Cartesian expansions — a fast method for computing of potentials of the form $R^{-\nu}$ for all real ν . *Journal of Computational Physics*, 226(1):732–753, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002045>.

Sharma:2007:PMA

- [SH07c] Prateek Sharma and Gregory W. Hammett. Preserving monotonicity in anisotropic diffusion. *Journal of Computational Physics*, 227(1):123–142, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003233>.

Shahbazi:2005:EEP

- [Sha05] Khosro Shahbazi. An explicit expression for the penalty parameter of the interior penalty method. *Journal of Computational Physics*, 205(2):401–407, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004796>.

Sescu:2008:MOF

- [SHA08] Adrian Sescu, Ray Hixon, and Abdollah A. Afjeh. Multidimensional optimization of finite difference schemes for computational aeroacoustics. *Journal of Computational Physics*, 227(9):4563–4588, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000363>.

Sherlock:2008:MCM

- [She08] M. Sherlock. A Monte-Carlo method for Coulomb collisions in hybrid plasma models. *Journal of Computational Physics*, 227(4):2286–2292, February 1, 2008. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005359>.

Shin:2007:CCF

- [Shi07] Seungwon Shin. Computation of the curvature field in numerical simulation of multiphase flow. *Journal of Computational Physics*, 222(2):872–878, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004190>.

Skeel:2007:CMB

- [SHP07] Robert D. Skeel, David J. Hardy, and James C. Phillips. Correcting mesh-based force calculations to conserve both energy and momentum in molecular dynamics simulations. *Journal of Computational Physics*, 225(1):1–5, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001271>.

Soria-Hoyo:2009:PBP

- [SHPC09] C. Soria-Hoyo, F. Pontiga, and A. Castellanos. A PIC based procedure for the integration of multiple time scale problems in gas discharge physics. *Journal of Computational Physics*, 228(4):1017–1029, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005366>.

Shi:2002:TTN

- [SHS02] Jing Shi, Changqing Hu, and Chi-Wang Shu. A technique of treating negative weights in WENO schemes. *Journal of Computational Physics*, 175(1):108–127, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968925>.

Schnack:2008:EIL

- [SHS08] Jürgen Schnack, Peter Hage, and Heinz-Jürgen Schmidt. Efficient implementation of the Lanczos method for magnetic systems. *Journal of Computational Physics*, 227(9):4512–4517, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000338>.

Sivakumar:2009:PVR

- [SHTB09] P. Sivakumar, D. G. Hyams, L. K. Taylor, and W. R. Briley. A primitive-variable Riemann method for solution of the shallow water equations with wetting and drying. *Journal of Computational Physics*, 228(19):7452–7472, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003799>.

Sha:2007:ASF

- [SHWC07] Wei Sha, Zhixiang Huang, Xianliang Wu, and Mingsheng Chen. Application of the symplectic finite-difference time-domain scheme to electromagnetic simulation. *Journal of Computational Physics*, 225(1):33–50, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005754>.

Sanchez:2000:COC

- [SHWW00] R. Sanchez, S. P. Hirshman, J. C. Whitson, and A. S. Ware. COBRA: An optimized code for fast analysis of ideal ballooning stability of three-dimensional magnetic equilibria. *Journal of Computational Physics*, 161(2):576–588, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965148>.

Shyue:2001:FMT

- [Shy01] Keh-Ming Shyue. A fluid-mixture type algorithm for compressible multicomponent flow with Mie–Grüneisen equation of state. *Journal of Computational Physics*, 171(2):678–707, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968019>.

Shyue:2004:FMT

- [Shy04] Keh-Ming Shyue. A fluid-mixture type algorithm for barotropic two-fluid flow problems. *Journal of Computational Physics*, 200(2):718–748, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400186X>.

Shyue:2006:WPB

- [Shy06] Keh-Ming Shyue. A wave-propagation based volume tracking method for compressible multicomponent flow in two space dimensions. *Journal of Computational Physics*, 215(1):219–244, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004869>.

Shi:2007:HRK

- [SHY07] Yu-Hsin Shi, J. C. Huang, and J. Y. Yang. High resolution kinetic beam schemes in generalized coordinates for ideal quantum gas dynamics. *Journal of Computational Physics*, 222(2):573–591, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003688>.

Siewert:2000:PTC

- [Sie00] C. E. Siewert. Poiseuille and thermal-creep flow in a cylindrical tube. *Journal of Computational Physics*, 160(2):470–480, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964647>.

Shin:2002:MTD

- [SJ02] Seungwon Shin and Damir Juric. Modeling three-dimensional multiphase flow using a level contour reconstruction method for front tracking without connectivity. *Journal of Computational Physics*, 180(2):427–470, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970865>.

Schmitt:2004:NSR

- [SJ04] D. Schmitt and D. Jault. Numerical study of a rotating fluid in a spheroidal container. *Journal of Computational Physics*, 197(2):671–685, July 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006582>.

St-Jean:2007:SCM

- [SJC07] Cédric St-Jean and Paul Charbonneau. Solar cycle modelling using spatiotemporal decomposition schemes. *Journal of Computational Physics*, 223(1):50–66, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004219>.

Sengupta:2005:NFV

- [SJD05] T. K. Sengupta, R. Jain, and A. Dipankar. A new flux-vector splitting compact finite volume scheme. *Journal of Computational Physics*, 207(1):261–281, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000264>.

Simens:2009:HRC

- [SJHM09] Mark P. Simens, Javier Jiménez, Sergio Hoyas, and Yoshinori Mizuno. A high-resolution code for turbulent boundary layers. *Journal of Computational Physics*, 228(11):4218–4231, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001119>.

Sutherland:2003:IBC

- [SK03] James C. Sutherland and Christopher A. Kennedy. Improved boundary conditions for viscous, reacting, compressible flows. *Journal of Computational Physics*, 191(2):502–524, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003280>.

Sirisup:2004:SVM

- [SK04a] S. Sirisup and G. E. Karniadakis. A spectral viscosity method for correcting the long-term behavior of POD models. *Journal of Computational Physics*, 194(1):92–116, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004625>.

Suda:2004:APA

- [SK04b] Reiji Suda and Shingo Kuriyama. Another preprocessing algorithm for generalized one-dimensional fast multipole method.

Journal of Computational Physics, 195(2):790–803, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005849>.

Shi:2005:CPA

- [SK05] Fengyan Shi and James T. Kirby. Curvilinear parabolic approximation for surface wave transformation with wave-current interaction. *Journal of Computational Physics*, 204(2):562–586, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004280>.

Symeonidis:2006:FTS

- [SK06] Vasileios Symeonidis and George Em Karniadakis. A family of time-staggered schemes for integrating hybrid DPD models for polymers: Algorithms and applications. *Journal of Computational Physics*, 218(1):82–101, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000611>.

Spira:2007:GCF

- [SK07a] Alon Spira and Ron Kimmel. Geometric curve flows on parametric manifolds. *Journal of Computational Physics*, 223(1):235–249, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004347>.

Sugiyama:2007:MSP

- [SK07b] Toru Sugiyama and Kanya Kusano. Multi-scale plasma simulation by the interlocking of magnetohydrodynamic model and particle-in-cell kinetic model. *Journal of Computational Physics*, 227(2):1340–1352, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003968>.

Sentoku:2008:NMP

- [SK08a] Y. Sentoku and A. J. Kemp. Numerical methods for particle simulations at extreme densities and temperatures: Weighted particles, relativistic collisions and reduced currents. *Journal of Computational Physics*, 227(14):6846–6861, July 1,

2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001988>.

Skamarock:2008:TSN

- [SK08b] William C. Skamarock and Joseph B. Klemp. A time-split nonhydrostatic atmospheric model for weather research and forecasting applications. *Journal of Computational Physics*, 227(7):3465–3485, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000459>.

Sheng:2001:SGN

- [SKAS01] Q. Sheng, A. Q. M. Khaliq, and E. A. Al-Said. Solving the generalized nonlinear Schrödinger equation via quartic spline approximation. *Journal of Computational Physics*, 166(2):400–417, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966683>.

Seiwald:2008:OEC

- [SKK⁺08] B. Seiwald, S. V. Kasilov, W. Kernbichler, V. N. Kalyuzhnyj, V. V. Nemov, V. Tribaldos, and J. A. Jiménez. Optimization of energy confinement in the $1/\nu$ regime for stellarators. *Journal of Computational Physics*, 227(12):6165–6183, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001265>.

Kim:2003:CSI

- [sKKRH03] Sung soo Kim, Chongam Kim, Oh-Hyun Rho, and Seung Kyu Hong. Cures for the shock instability: Development of a shock-stable Roe scheme. *Journal of Computational Physics*, 185(2):342–374, March 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000372>.

Samaey:2006:PDB

- [SKR06] Giovanni Samaey, Ioannis G. Kevrekidis, and Dirk Roose. Patch dynamics with buffers for homogenization problems.

Journal of Computational Physics, 213(1):264–287, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003803>.

Sansour:2008:NIF

- [SKS08] Carlo Sansour, Igor Karsaj, and Jurica Sorić. On a numerical implementation of a formulation of anisotropic continuum elastoplasticity at finite strains. *Journal of Computational Physics*, 227(16):7643–7663, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002544>.

Stanescu:2005:NSI

- [SKW05] Dan Stanescu, Dongjin Kim, and Wojbor A. Woyczynski. Numerical study of interacting particles approximation for integro-differential equations. *Journal of Computational Physics*, 206(2):706–726, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000124>.

Schmidt:2003:NWC

- [SKWN03] Rodney C. Schmidt, Alan R. Kerstein, Scott Wunsch, and Vebjorn Nilsen. Near-wall LES closure based on one-dimensional turbulence modeling. *Journal of Computational Physics*, 186(1):317–355, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000718>.

Sirisup:2005:EFG

- [SKXK05] Sirod Sirisup, George Em Karniadakis, Dongbin Xiu, and Ioannis G. Kevrekidis. Equation-free/Galerkin-free POD-assisted computation of incompressible flows. *Journal of Computational Physics*, 207(2):568–587, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000410>.

Shumlak:2003:ARS

- [SL03] U. Shumlak and J. Loverich. Approximate Riemann solver for the two-fluid plasma model. *Journal of Computational Physics*, 187(2):620–638, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001517>.

Sharma:2004:NSB

- [SL04] Anupam Sharma and Lyle N. Long. Numerical simulation of the blast impact problem using the direct simulation Monte Carlo (DSMC) method. *Journal of Computational Physics*, 200(1):211–237, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001512>.

Su:2006:CKR

- [SL06] C. H. Su and Didier Lucor. Covariance kernel representations of multidimensional second-order stochastic processes. *Journal of Computational Physics*, 217(1):82–99, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000842>.

Shi:2007:LDF

- [SL07a] Xing Shi and Siak Piang Lim. A LBM–DLM/FD method for 3D fluid-structure interactions. *Journal of Computational Physics*, 226(2):2028–2043, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002768>.

Shi:2007:FVT

- [SL07b] Yan Shi and Chang-Hong Liang. The finite-volume time-domain algorithm using least square method in solving Maxwell’s equations. *Journal of Computational Physics*, 226(2):1444–1457, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002422>.

Simpson:2007:NCI

- [SL07c] Matthew J. Simpson and Kerry A. Landman. Nonmonotone chemotactic invasion: High-resolution simulations, phase plane analysis and new benchmark problems. *Journal of Computational Physics*, 225(1):6–12, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001374>.

Shu:2007:NIB

- [SLC07] C. Shu, N. Liu, and Y. T. Chew. A novel immersed boundary velocity correction-lattice Boltzmann method and its application to simulate flow past a circular cylinder. *Journal of Computational Physics*, 226(2):1607–1622, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002513>.

Shariff:2008:CDA

- [SLF08] Karim Shariff, Anthony Leonard, and Joel H. Ferziger. A contour dynamics algorithm for axisymmetric flow. *Journal of Computational Physics*, 227(21):9044–9062, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004457>.

Shellman:2003:MPL

- [SLG⁺03] Spencer D. Shellman, James P. Lewis, Kurt R. Glaesemann, Krzysztof Sikorski, and Gregory A. Voth. Massively parallel linear-scaling algorithm in an ab initio local-orbital total-energy method. *Journal of Computational Physics*, 188(1):1–15, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300069X>.

Sengupta:2009:NCS

- [SLV09] T. K. Sengupta, V. Lakshmanan, and V. V. S. N. Vijay. A new combined stable and dispersion relation preserving compact scheme for non-periodic problems. *Journal of Computational Physics*, 228(8):3048–3071, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000151>.

Li:2008:ASR

- [sLwG08] Xue song Li and Chun wei Gu. An all-speed Roe-type scheme and its asymptotic analysis of low Mach number behaviour. *Journal of Computational Physics*, 227(10):5144–5159, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000697>.

Sandham:2002:ESH

- [SLY02] N. D. Sandham, Q. Li, and H. C. Yee. Entropy splitting for high-order numerical simulation of compressible turbulence. *Journal of Computational Physics*, 178(2):307–322, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970221>.

Serna:2004:PEM

- [SM04] Susana Serna and Antonio Marquina. Power ENO methods: a fifth-order accurate weighted power ENO method. *Journal of Computational Physics*, 194(2):632–658, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004996>.

Serna:2005:CSW

- [SM05] Susana Serna and Antonio Marquina. Capturing shock waves in inelastic granular gases. *Journal of Computational Physics*, 209(2):787–795, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002019>.

Seo:2006:LPC

- [SM06a] Jung H. Seo and Young J. Moon. Linearized perturbed compressible equations for low Mach number aeroacoustics. *Journal of Computational Physics*, 218(2):702–719, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001276>.

Soares:2006:DAF

- [SM06b] D. Soares, Jr. and W. J. Mansur. Dynamic analysis of fluid-soil-structure interaction problems by the

boundary element method. *Journal of Computational Physics*, 219(2):498–512, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002002>.

Sahin:2009:ALE

- [SM09a] Mehmet Sahin and Kamran Mohseni. An arbitrary Lagrangian–Eulerian formulation for the numerical simulation of flow patterns generated by the hydromedusa *Aequorea victoria*. *Journal of Computational Physics*, 228(12):4588–4605, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001570>.

Shchepetkin:2009:CCO

- [SM09b] Alexander F. Shchepetkin and James C. McWilliams. Correction and commentary for “Ocean forecasting in terrain-following coordinates: Formulation and skill assessment of the regional ocean modeling system” by Haidvogel et al., *J. Comp. Phys.* **227**, pp. 3595–3624. *Journal of Computational Physics*, 228(24):8985–9000, December 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004872>. See [Ano08-50].

Smith:2008:EDD

- [SMAj08] M. R. Smith, M. N. Macrossan, and M. M. Abdel-jawad. Effects of direction decoupling in flux calculation in finite volume solvers. *Journal of Computational Physics*, 227(8):4142–4161, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005670>.

Shahbazi:2009:MAH

- [SMB09] Khosro Shahbazi, Dimitri J. Mavriplis, and Nicholas K. Burgess. Multigrid algorithms for high-order discontinuous Galerkin discretizations of the compressible Navier–Stokes equations. *Journal of Computational Physics*, 228(21):7917–7940, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003878>.

Smereka:2006:NAD

- [Sme06] Peter Smereka. The numerical approximation of a delta function with application to level set methods. *Journal of Computational Physics*, 211(1):77–90, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002627>.

Srinivasan:2009:TMR

- [SMGJ09] K. R. Srinivasan, K. Matous, P. H. Geubelle, and T. L. Jackson. Thermomechanical modeling of regressing heterogeneous solid propellants. *Journal of Computational Physics*, 228(21):7883–7901, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003775>.

Sanchez:2002:CBT

- [SML02] J. Sanchez, F. Marques, and J. M. Lopez. A continuation and bifurcation technique for Navier–Stokes flows. *Journal of Computational Physics*, 180(1):78–98, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970725>.

Srivastava:2000:AGA

- [SMO00] R. K. Srivastava, D. S. McRae, and M. T. Odman. An adaptive grid algorithm for air-quality modeling. *Journal of Computational Physics*, 165(2):437–472, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966208>.

Shestakov:2001:CCP

- [SMP01] A. I. Shestakov, J. L. Milovich, and M. K. Prasad. Combining cell- and point-centered methods in 3D, unstructured-grid radiation-hydrodynamic codes. *Journal of Computational Physics*, 170(1):81–111, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967233>.

Shirgaonkar:2009:NMF

- [SMP09] Anup A. Shirgaonkar, Malcolm A. MacIver, and Neelesh A. Patankar. A new mathematical formulation and fast algorithm for fully resolved simulation of self-propulsion. *Journal of Computational Physics*, 228(7):2366–2390, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006311>.

Shen:2004:CGF

- [SMS04] Wen Zhong Shen, Jess A. Michelsen, and Jens Nørkær Sørensen. A collocated grid finite volume method for aeroacoustic computations of low-speed flows. *Journal of Computational Physics*, 196(1):348–366, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006004>.

Seo:2008:PCF

- [SMS08] Jung H. Seo, Young J. Moon, and Byeong Rog Shin. Prediction of cavitating flow noise by direct numerical simulation. *Journal of Computational Physics*, 227(13):6511–6531, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001630>.

Sugawara:2007:TTD

- [SMSS07] Hirotake Sugawara, Naoki Mori, Yosuke Sakai, and Yoshiyuki Suda. Timesaving techniques for decision of electron-molecule collisions in Monte Carlo simulation of electrical discharges. *Journal of Computational Physics*, 223(1):298–304, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004372>.

Satoh:2008:NIA

- [SMT⁺08] M. Satoh, T. Matsuno, H. Tomita, H. Miura, T. Nasuno, and S. Iga. Nonhydrostatic icosahedral atmospheric model (NICAM) for global cloud resolving simulations. *Journal of Computational Physics*, 227(7):3486–3514, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000654>.

Svard:2006:OAD

- [SN06] Magnus Svärd and Jan Nordström. On the order of accuracy for difference approximations of initial-boundary value problems. *Journal of Computational Physics*, 218(1):333–352, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000878>.

Svard:2008:SHO

- [SN08] Magnus Svärd and Jan Nordström. A stable high-order finite difference scheme for the compressible Navier–Stokes equations: No-slip wall boundary conditions. *Journal of Computational Physics*, 227(10):4805–4824, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005682>.

Sanchez:2004:NKC

- [SNGAS04] J. Sánchez, M. Net, B. García-Archilla, and C. Simó. Newton–Krylov continuation of periodic orbits for Navier–Stokes flows. *Journal of Computational Physics*, 201(1):13–33, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001895>.

Snider:2001:ITD

- [Sni01] D. M. Snider. An incompressible three-dimensional multiphase particle-in-cell model for dense particle flows. *Journal of Computational Physics*, 170(2):523–549, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967476>.

Sial:2003:EMU

- [SNLS03] S. Sial, J. Neuberger, T. Lookman, and A. Saxena. Energy minimization using Sobolev gradients: application to phase separation and ordering. *Journal of Computational Physics*, 189(1):88–97, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300202X>.

Shestakov:2008:MDS

- [SO08] Aleksei I. Shestakov and Stella S. R. Offner. A multigroup diffusion solver using pseudo transient continuation for a radiation-hydrodynamic code with patch-based AMR. *Journal of Computational Physics*, 227(3):2154–2186, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004184>.

Sockol:2003:MSN

- [Soc03] Peter M. Sockol. Multigrid solution of the Navier–Stokes equations at low speeds with large temperature variations. *Journal of Computational Physics*, 192(2):570–592, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004091>.

Sofonea:2009:IDR

- [Sof09] Victor Sofonea. Implementation of diffuse reflection boundary conditions in a thermal lattice Boltzmann model with flux limiters. *Journal of Computational Physics*, 228(17):6107–6118, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002617>.

Sousa:2009:FDA

- [Sou09] Ercília Sousa. Finite difference approximations for a fractional advection diffusion problem. *Journal of Computational Physics*, 228(11):4038–4054, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000904>.

Sussman:2000:CLS

- [SP00] Mark Sussman and Elbridge Gerry Puckett. A coupled level set and volume-of-fluid method for computing 3D and axisymmetric incompressible two-phase flows. *Journal of Computational Physics*, 162(2):301–337, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965379>.

Sharma:2004:DNS

- [SP04] Nitin Sharma and Neelesh A. Patankar. Direct numerical simulation of the Brownian motion of particles by using fluctuating hydrodynamic equations. *Journal of Computational Physics*, 201(2):466–486, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002384>.

Sharma:2005:FCT

- [SP05a] Nitin Sharma and Neelesh A. Patankar. A fast computation technique for the direct numerical simulation of rigid particulate flows. *Journal of Computational Physics*, 205(2):439–457, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004747>.

Sjogreen:2005:PML

- [SP05b] Björn Sjögren and N. Anders Petersson. Perfectly matched layers for Maxwell’s equations in second order formulation. *Journal of Computational Physics*, 209(1):19–46, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001336>.

Spence:2005:PBS

- [SP05c] Alastair Spence and Chris Poulton. Photonic band structure calculations using nonlinear eigenvalue techniques. *Journal of Computational Physics*, 204(1):65–81, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004073>.

Stuhne:2006:RUG

- [SP06a] G. R. Stuhne and W. R. Peltier. A robust unstructured grid discretization for 3-dimensional hydrostatic flows in spherical geometry: a new numerical structure for ocean general circulation modeling. *Journal of Computational Physics*, 213(2):704–729, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004134>.

Subramanian:2006:HOM

- [SP06b] V. Subramanian and J. B. Perot. Higher-order mimetic methods for unstructured meshes. *Journal of Computational Physics*, 219(1):68–85, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001409>.

Schilder:2007:CAT

- [SP07] Frank Schilder and Bruce B. Peckham. Computing Arnold's tongue scenarios. *Journal of Computational Physics*, 220(2):932–951, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002695>.

Saurel:2009:SER

- [SPB09] Richard Saurel, Fabien Petitpas, and Ray A. Berry. Simple and efficient relaxation methods for interfaces separating compressible fluids, cavitating flows and shocks in multiphase mixtures. *Journal of Computational Physics*, 228(5):1678–1712, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005895>.

Soria:2001:PCS

- [SPC01] C. Soria, F. Pontiga, and A. Castellanos. Particle-in-cell simulation of electrical gas discharges. *Journal of Computational Physics*, 171(1):47–78, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967634>.

Spelt:2005:LSA

- [Spe05] Peter D. M. Spelt. A level-set approach for simulations of flows with multiple moving contact lines with hysteresis. *Journal of Computational Physics*, 207(2):389–404, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000343>.

Sokolov:2006:TPC

- [SPGR06] I. V. Sokolov, K. G. Powell, T. I. Gombosi, and I. I. Roussev. A TVD principle and conservative TVD schemes

for adaptive Cartesian grids. *Journal of Computational Physics*, 220(1):1–5, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003548>.

Stevens:2009:UPC

- [SPLM09] David Stevens, Henry Power, Michael Lees, and Herve Morvan. The use of PDE centres in the local RBF Hermitian method for 3D convective-diffusion problems. *Journal of Computational Physics*, 228(12):4606–4624, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001582>.

Shahbazi:2003:SOA

- [SPM03] Khosro Shahbazi, Marius Paraschivoiu, and Javad Mostaghimi. Second order accurate volume tracking based on remapping for triangular meshes. *Journal of Computational Physics*, 188(1):100–122, June 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001566>.

Sportisse:2000:AOS

- [Spo00] Bruno Sportisse. An analysis of operator splitting techniques in the stiff case. *Journal of Computational Physics*, 161(1):140–168, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964957>.

Shi:2005:DLM

- [SPT05] Xing Shi and Nhan Phan-Thien. Distributed Lagrange multiplier/fictitious domain method in the framework of lattice Boltzmann method for fluid-structure interactions. *Journal of Computational Physics*, 206(1):81–94, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004942>.

Sytine:2000:CTP

- [SPW⁺00] Igor V. Sytine, David H. Porter, Paul R. Woodward, Stephen W. Hodson, and Karl-Heinz Winkler. Convergence

tests for the piecewise parabolic method and Navier–Stokes solutions for homogeneous compressible turbulence. *Journal of Computational Physics*, 158(2):225–238, March 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964161>.

Schmidt:2000:NDC

- [SR00a] David P. Schmidt and C. J. Rutland. A new droplet collision algorithm. *Journal of Computational Physics*, 164(1):62–80, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965689>.

Spivack:2000:SRC

- [SR00b] M. Spivack and D. E. Reeve. Source reconstruction in a coastal evolution equation. *Journal of Computational Physics*, 161(1):169–181, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964969>.

Sakai:2009:AOS

- [SR09a] T. Sakai and L. G. Redekopp. An application of one-sided Jacobi polynomials for spectral modeling of vector fields in polar coordinates. *Journal of Computational Physics*, 228(18):7069–7085, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003398>.

Sun:2009:FVL

- [SR09b] Yutao Sun and Yu-Xin Ren. The finite volume local evolution Galerkin method for solving the hyperbolic conservation laws. *Journal of Computational Physics*, 228(13):4945–4960, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001922>.

Sanchez-Rocha:2009:CHR

- [SRM09] Martín Sánchez-Rocha and Suresh Menon. The compressible hybrid RANS/LES formulation using an additive operator. *Journal of Computational Physics*, 228(6):2037–2062,

April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006141>.

Seynaeve:2007:FMA

- [SRNV07] Bert Seynaeve, Eveline Rosseel, Bart Nicolaï, and Stefan Vandewalle. Fourier mode analysis of multigrid methods for partial differential equations with random coefficients. *Journal of Computational Physics*, 224(1):132–149, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006218>.

Sanmiguel-Rojas:2005:CGF

- [SROcdPFF05] E. Sanmiguel-Rojas, J. Ortega-Casanova, C. del Pino, and R. Fernandez-Feria. A Cartesian grid finite-difference method for 2D incompressible viscous flows in irregular geometries. *Journal of Computational Physics*, 204(1):302–318, March 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004188>.

Sanmiguel-Rojas:2003:ENM

- [SROCF03] E. Sanmiguel-Rojas, J. Ortega-Casanova, and R. Fernandez-Feria. On the efficiency of a numerical method with periodic time strides for solving incompressible flows. *Journal of Computational Physics*, 186(1):212–229, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000494>.

Sun:2007:NAL

- [SRX07] Pengtao Sun, Robert D. Russell, and Jinchao Xu. A new adaptive local mesh refinement algorithm and its application on fourth order thin film flow problem. *Journal of Computational Physics*, 224(2):1021–1048, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600564X>.

Swarztrauber:2000:GDS

- [SS00] Paul N. Swarztrauber and William F. Spotz. Generalized discrete spherical harmonic transforms. *Journal of Com-*

computational Physics, 159(2):213–230, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964313>.

Spotz:2001:PCA

- [SS01a] William F. Spotz and Paul N. Swarztrauber. A performance comparison of associated Legendre projections. *Journal of Computational Physics*, 168(2):339–355, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967002>.

Suzuki:2001:LIT

- [SS01b] Alfredo T. Suzuki and Alexandre G. M. Schmidt. Loop integrals in three outstanding gauges: Feynman, light-cone, and Coulomb. *Journal of Computational Physics*, 168(1):207–218, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966944>.

Senocak:2002:PBM

- [SS02] Inanc Senocak and Wei Shyy. A pressure-based method for turbulent cavitating flow computations. *Journal of Computational Physics*, 176(2):363–383, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102969925>.

Sankaranarayanan:2003:SEG

- [SS03a] S. Sankaranarayanan and Malcolm L. Spaulding. A study of the effects of grid non-orthogonality on the solution of shallow water equations in boundary-fitted coordinate systems. *Journal of Computational Physics*, 184(1):299–320, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000426>.

Sofonea:2003:VFD

- [SS03b] Victor Sofonea and Robert F. Sekerka. Viscosity of finite difference lattice Boltzmann models. *Journal of Computational Physics*, 184(2):422–434, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000268>.

Surzhikov:2004:TCP

- [SS04] Sergey T. Surzhikov and Joseph S. Shang. Two-component plasma model for two-dimensional glow discharge in magnetic field. *Journal of Computational Physics*, 199(2):437–464, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000919>.

Sherer:2005:HOC

- [SS05a] Scott E. Sherer and James N. Scott. High-order compact finite-difference methods on general overset grids. *Journal of Computational Physics*, 210(2):459–496, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002366>.

Smolarkiewicz:2005:MEB

- [SS05b] Piotr K. Smolarkiewicz and Joanna Szmelter. MPDATA: An edge-based unstructured-grid formulation. *Journal of Computational Physics*, 206(2):624–649, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000082>.

Sofonea:2005:BCU

- [SS05c] Victor Sofonea and Robert F. Sekerka. Boundary conditions for the upwind finite difference lattice Boltzmann model: Evidence of slip velocity in micro-channel flow. *Journal of Computational Physics*, 207(2):639–659, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000458>.

Shepel:2006:NFE

- [SS06a] Sergey V. Shepel and Brian L. Smith. New finite-element/finite-volume level set formulation for modelling two-phase incompressible flows. *Journal of Computational Physics*, 218(2):479–494, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999106000945>.

Shishkova:2006:NAK

- [SS06b] I. N. Shishkova and S. S. Sazhin. A numerical algorithm for kinetic modelling of evaporation processes. *Journal of Computational Physics*, 218(2):635–653, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001240>.

Severac:2007:SVV

- [SS07a] E. Severac and E. Serre. A spectral vanishing viscosity for the LES of turbulent flows within rotating cavities. *Journal of Computational Physics*, 226(2):1234–1255, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002318>.

Singh:2007:TDA

- [SS07b] Rajkeshar Singh and Wei Shyy. Three-dimensional adaptive Cartesian grid method with conservative interface restructuring and reconstruction. *Journal of Computational Physics*, 224(1):150–167, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600622X>.

Soffer:2007:OBN

- [SS07c] A. Soffer and C. Stucchio. Open boundaries for the non-linear Schrödinger equation. *Journal of Computational Physics*, 225(2):1218–1232, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000368>.

Sethian:2008:SPD

- [SS08] J. A. Sethian and Ying Shan. Solving partial differential equations on irregular domains with moving interfaces, with applications to superconformal electrodeposition in semiconductor manufacturing. *Journal of Computational Physics*, 227(13):6411–6447, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001381>.

Sammis:2009:GNF

- [SS09a] Ian Sammis and John Strain. A geometric nonuniform fast Fourier transform. *Journal of Computational Physics*, 228(18):7086–7108, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003404>.

Sani:2009:SPL

- [SS09b] M. Sani and M. S. Saidi. A set of particle locating algorithms not requiring face belonging to cell connectivity data. *Journal of Computational Physics*, 228(19):7357–7367, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003611>.

Smolarkiewicz:2009:IUS

- [SS09c] Piotr K. Smolarkiewicz and Joanna Szmelter. Iterated upwind schemes for gas dynamics. *Journal of Computational Physics*, 228(1):33–54, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004294>.

Schwartzentruber:2007:MPC

- [SSB07] T. E. Schwartzentruber, L. C. Scalabrin, and I. D. Boyd. A modular particle-continuum numerical method for hypersonic non-equilibrium gas flows. *Journal of Computational Physics*, 225(1):1159–1174, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000356>.

Slepchenko:2000:NAF

- [SSC00] Boris M. Slepchenko, James C. Schaff, and Y. S. Choi. Numerical approach to fast reactions in reaction-diffusion systems: Application to buffered calcium waves in bistable models. *Journal of Computational Physics*, 162(1):186–218, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096532X>.

Slimon:2000:DCA

- [SSD00] Scot A. Slimon, Marios C. Soteriou, and Donald W. Davis. Development of computational aeroacoustics equations for subsonic flows using a Mach number expansion approach. *Journal of Computational Physics*, 159(2):377–406, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964490>.

Schulze:2003:CKM

- [SSE03] Tim P. Schulze, Peter Smereka, and Weinan E. Coupling kinetic Monte-Carlo and continuum models with application to epitaxial growth. *Journal of Computational Physics*, 189(1):197–211, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002080>.

Sussman:2007:SIM

- [SSH⁺07] M. Sussman, K. M. Smith, M. Y. Hussaini, M. Ohta, and R. Zhi-Wei. A sharp interface method for incompressible two-phase flows. *Journal of Computational Physics*, 221(2):469–505, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002981>.

Shen:2000:SSR

- [SSL00] Hung Tao Shen, Junshan Su, and Lianwu Liu. SPH simulation of river ice dynamics. *Journal of Computational Physics*, 165(2):752–770, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966397>.

Sabetghadam:2009:FSE

- [SSN09] Feriedoun Sabetghadam, Shervin Sharafatmandjoor, and Farhang Norouzi. Fourier spectral embedded boundary solution of the Poisson's and Laplace equations with Dirichlet boundary conditions. *Journal of Computational*

Physics, 228(1):55–74, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004336>.

Silva:2003:NST

- [SSND03] A. L. F. Lima E. Silva, A. Silveira-Neto, and J. J. R. Damasceno. Numerical simulation of two-dimensional flows over a circular cylinder using the immersed boundary method. *Journal of Computational Physics*, 189(2):351–370, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002146>.

Schrimpf:2000:RBO

- [SSWD00] Gerhard Schrimpf, Johannes Schneider, Hermann Stamm-Wilbrandt, and Gunter Dueck. Record breaking optimization results using the ruin and recreate principle. *Journal of Computational Physics*, 159(2):139–171, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964136>.

Sigurgeirsson:2001:APF

- [SSW01] Hersir Sigurgeirsson, Andrew Stuart, and Wing-Lok Wan. Algorithms for particle-field simulations with collisions. *Journal of Computational Physics*, 172(2):766–807, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968585>.

Smolarkiewicz:2007:BRL

- [SSW⁺07] Piotr K. Smolarkiewicz, Robert Sharman, Jeffrey Weil, Steven G. Perry, David Heist, and George Bowker. Building resolving large-eddy simulations and comparison with wind tunnel experiments. *Journal of Computational Physics*, 227(1):633–653, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003506>.

Seidl:2001:APS

- [ST01] Albert Seidl and Mikio Takai. Accuracy problems in simulation of field emitter devices using finite elements. *Journal of Computational Physics*, 166(1):159–164, January 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966439>.

Sun:2003:AUF

- [ST03a] M. Sun and K. Takayama. An artificially upstream flux vector splitting scheme for the Euler equations. *Journal of Computational Physics*, 189(1):305–329, July 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002122>.

Sun:2003:ELS

- [ST03b] M. Sun and K. Takayama. Error localization in solution-adaptive grid methods. *Journal of Computational Physics*, 190(1):346–350, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300278X>.

Singer:2004:PML

- [ST04] I. Singer and E. Turkel. A perfectly matched layer for the Helmholtz equation in a semi-infinite strip. *Journal of Computational Physics*, 201(2):439–465, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002372>.

Schwab:2006:KLA

- [ST06] Christoph Schwab and Radu Alexandru Todor. Karhunen–Loève approximation of random fields by generalized fast multipole methods. *Journal of Computational Physics*, 217(1):100–122, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000349>.

Shadid:2005:PFC

- [STD⁺05] J. N. Shadid, R. S. Tuminaro, K. D. Devine, G. L. Hennigan, and P. T. Lin. Performance of fully coupled domain decomposition preconditioners for finite element transport/reaction

simulations. *Journal of Computational Physics*, 205(1):24–47, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004474>.

Stiriba:2002:NFS

- [Sti02] Youssef Stiriba. A nonlinear flux split method for hyperbolic conservation laws. *Journal of Computational Physics*, 176(1):20–39, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969591>.

Stinis:2005:MLA

- [Sti05] Panagiotis Stinis. A maximum likelihood algorithm for the estimation and renormalization of exponential densities. *Journal of Computational Physics*, 208(2):691–703, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001269>.

Sokolov:2002:AWN

- [STiST02] Igor' V. Sokolov, Eugene V. Timofeev, Jun ichi Sakai, and Kazuyoshi Takayama. Artificial wind — a new framework to construct simple and efficient upwind shock-capturing schemes. *Journal of Computational Physics*, 181(1):354–393, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971305>.

Stoltz:2007:PSS

- [Sto07] Gabriel Stoltz. Path sampling with stochastic dynamics: Some new algorithms. *Journal of Computational Physics*, 225(1):491–508, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006024>.

Strain:2000:FMS

- [Str00] John Strain. A fast modular semi-Lagrangian method for moving interfaces. *Journal of Computational Physics*, 161(2):512–536, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965082>.

Strain:2001:FSL

- [Str01a] John Strain. A fast semi-Lagrangian contouring method for moving interfaces. *Journal of Computational Physics*, 170(1):373–394, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967403>.

Straughan:2001:STD

- [Str01b] B. Straughan. Surface-tension-driven convection in a fluid overlying a porous layer. *Journal of Computational Physics*, 170(1):320–337, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967397>.

Strain:2007:LCS

- [Str07a] John Strain. Locally-corrected spectral methods and overdetermined elliptic systems. *Journal of Computational Physics*, 224(2):1243–1254, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005742>.

Swanson:2007:CAR

- [STR07b] R. C. Swanson, E. Turkel, and C.-C. Rossow. Convergence acceleration of Runge–Kutta schemes for solving the Navier–Stokes equations. *Journal of Computational Physics*, 224(1):365–388, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000976>.

Stupfel:2001:HFE

- [Stu01] Bruno Stupfel. A hybrid finite element and integral equation domain decomposition method for the solution of the 3-D scattering problem. *Journal of Computational Physics*, 172(2):451–471, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968147>.

Shukla:2007:VHO

- [STZ07] Ratnesh K. Shukla, Mahidhar Tatineni, and Xiaolin Zhong. Very high-order compact finite difference schemes on non-uniform grids for incompressible Navier–Stokes equations. *Journal of Computational Physics*, 224(2):1064–1094, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005663>.

Summers:2000:RBV

- [Sum00] D. M. Summers. A representation of bounded viscous flow based on Hodge decomposition of Wall impulse. *Journal of Computational Physics*, 158(1):28–50, February 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199964045>.

Sun:2000:SCF

- [Sun00] Chenghai Sun. Simulations of compressible flows with strong shocks by an adaptive lattice Boltzmann model. *Journal of Computational Physics*, 161(1):70–84, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964878>.

Suresh:2005:ISD

- [Sur05] Ambady Suresh. Interaction of a shock with a density disturbance via shock fitting. *Journal of Computational Physics*, 206(1):6–15, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005194>.

Sussman:2003:SOC

- [Sus03] Mark Sussman. A second order coupled level set and volume-of-fluid method for computing growth and collapse of vapor bubbles. *Journal of Computational Physics*, 187(1):110–136, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000871>.

Suslov:2006:NAS

- [Sus06] Sergey A. Suslov. Numerical aspects of searching convective/absolute instability transition. *Journal of Computational Physics*, 212(1):188–217, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003177>.

Schmidt:2001:SCD

- [SUW01] M. Schmidt, D. Uhrlandt, and R. Winkler. Self-consistent description of radial space-charge confinement in DC column plasmas. *Journal of Computational Physics*, 168(1):26–46, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966762>.

Scobelev:2000:SSC

- [SV00] Boris Yu. Scobelev and Evgenii V. Vorozhtsov. Sufficient stability criteria and uniform stability of difference schemes. *Journal of Computational Physics*, 165(2):717–751, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966300>.

Sommeijer:2007:SIT

- [SV07] B. P. Sommeijer and J. G. Verwer. On stabilized integration for time-dependent PDEs. *Journal of Computational Physics*, 224(1):3–16, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005705>.

Sengupta:2009:FIA

- [SVB09] T. K. Sengupta, V. V. S. N. Vijay, and S. Bhaumik. Further improvement and analysis of CCD scheme: Dissipation discretization and de-aliasing properties. *Journal of Computational Physics*, 228(17):6150–6168, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002666>.

Sen:2006:NNP

- [SVH⁺06] S. Sen, K. Veroy, D. B. P. Huynh, S. Deparis, N. C. Nguyen, and A. T. Patera. “natural norm” a posteriori error estimators for reduced basis approximations. *Journal of Computational Physics*, 217(1):37–62, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000830>.

Sethian:2000:SBD

- [SW00] J. A. Sethian and Andreas Wiegmann. Structural boundary design via level set and immersed interface methods. *Journal of Computational Physics*, 163(2):489–528, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965811>.

Sethian:2004:NMS

- [SW04a] J. A. Sethian and Jon Wilkening. A numerical model of stress driven grain boundary diffusion. *Journal of Computational Physics*, 193(1):275–305, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004315>.

Shashkov:2004:RPA

- [SW04b] Mikhail Shashkov and Burton Wendroff. The repair paradigm and application to conservation laws. *Journal of Computational Physics*, 198(1):265–277, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000270>.

Schlottke:2008:DNS

- [SW08a] Jan Schlottke and Bernhard Weigand. Direct numerical simulation of evaporating droplets. *Journal of Computational Physics*, 227(10):5215–5237, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000740>.

Schober:2008:DPM

- [SW08b] C. M. Schober and T. H. Wlodarczyk. Dispersive properties of multisymplectic integrators. *Journal of Computational Physics*, 227(10):5090–5104, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000600>.

Staniforth:2008:ADC

- [SW08c] Andrew Staniforth and Nigel Wood. Aspects of the dynamical core of a nonhydrostatic, deep-atmosphere, unified weather and climate-prediction model. *Journal of Computational Physics*, 227(7):3445–3464, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005626>.

Sbalzarini:2006:PHE

- [SWB⁺06] I. F. Sbalzarini, J. H. Walther, M. Bergdorf, S. E. Hieber, E. M. Kotsalis, and P. Koumoutsakos. PPM — a highly efficient parallel particle-mesh library for the simulation of continuum systems. *Journal of Computational Physics*, 215(2):566–588, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500505X>.

Schlegel:2008:FPM

- [SWG08] Fabrice Schlegel, Daehyun Wee, and Ahmed F. Ghoniem. A fast 3D particle method for the simulation of buoyant flow. *Journal of Computational Physics*, 227(21):9063–9090, November 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001782>.

Schwendeman:2006:RPH

- [SWK06] D. W. Schwendeman, C. W. Wahle, and A. K. Kapila. The Riemann problem and a high-resolution Godunov method for a model of compressible two-phase flow. *Journal of Computational Physics*, 212(2):490–526, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500330X>.

Sheu:2000:ISS

- [SWL00] Tony W. H. Sheu, S. K. Wang, and R. K. Lin. An implicit scheme for solving the convection-diffusion-reaction equation in two dimensions. *Journal of Computational Physics*, 164(1):123–142, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965884>.

Sun:2006:SFV

- [SWL06] Yuzhi Sun, Z. J. Wang, and Yen Liu. Spectral (finite) volume method for conservation laws on unstructured grids VI: Extension to viscous flow. *Journal of Computational Physics*, 215(1):41–58, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500478X>.

Shepard:2001:SPA

- [SWTM01] Ron Shepard, Albert F. Wagner, Jeffrey L. Tilson, and Michael Minkoff. The subspace projected approximate matrix (SPAM) modification of the Davidson method. *Journal of Computational Physics*, 172(2):472–514, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968287>.

Shao:2003:DTD

- [SWZ03] Zhenhai Shao, G. W. Wei, and Shan Zhao. DSC time-domain solution of Maxwell's equations. *Journal of Computational Physics*, 189(2):427–453, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002262>.

Sun:2009:DDM

- [SXyWX09] Pengtao Sun, Guangri Xue, Chao yang Wang, and Jinchao Xu. A domain decomposition method for two-phase transport model in the cathode of a polymer electrolyte fuel cell. *Journal of Computational Physics*, 228(16):6016–6036, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002599>.

Sjogreen:2003:GCH

- [SY03] B. Sjögren and H. C. Yee. Grid convergence of high order methods for multiscale complex unsteady viscous compressible flows. *Journal of Computational Physics*, 185(1):1–26, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910200044X>.

Shi:2008:GKB

- [SY08] Yu-Hsin Shi and J. Y. Yang. A gas-kinetic BGK scheme for semiclassical Boltzmann hydrodynamic transport. *Journal of Computational Physics*, 227(22):9389–9407, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003392>.

Shen:2009:EMM

- [SY09a] Jie Shen and Xiaofeng Yang. An efficient moving mesh spectral method for the phase-field model of two-phase flows. *Journal of Computational Physics*, 228(8):2978–2992, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000126>.

Shigeta:2009:MFS

- [SY09b] Takemi Shigeta and D. L. Young. Method of fundamental solutions with optimal regularization techniques for the Cauchy problem of the Laplace equation with singular points. *Journal of Computational Physics*, 228(6):1903–1915, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006074>.

Sheu:2009:DDA

- [SYC09] Tony W. H. Sheu, C. H. Yu, and P. H. Chiu. Development of a dispersively accurate conservative level set scheme for capturing interface in two-phase flows. *Journal of Computational Physics*, 228(3):661–686, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005007>.

Shen:2006:HRF

- [SYG06] Yiqing Shen, Guowei Yang, and Zhi Gao. High-resolution finite compact difference schemes for hyperbolic conservation laws. *Journal of Computational Physics*, 216(1):114–137, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005450>.

Scardovelli:2000:ARC

- [SZ00] Ruben Scardovelli and Stephane Zaleski. Analytical relations connecting linear interfaces and volume fractions in rectangular grids. *Journal of Computational Physics*, 164(1):228–237, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965677>.

Sampath:2001:NSC

- [SZ01] Rajiv Sampath and Nicholas Zabaras. Numerical study of convection in the directional solidification of a binary alloy driven by the combined action of buoyancy, surface tension, and electromagnetic forces. *Journal of Computational Physics*, 168(2):384–411, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967063>.

Shukla:2005:DHO

- [SZ05] Ratnesh K. Shukla and Xiaolin Zhong. Derivation of high-order compact finite difference schemes for non-uniform grid using polynomial interpolation. *Journal of Computational Physics*, 204(2):404–429, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400422X>.

Sandu:2008:DSO

- [SZ08] Adrian Sandu and Lin Zhang. Discrete second order adjoints in atmospheric chemical transport modeling. *Journal of Computational Physics*, 227(12):5949–5983, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000983>.

Schadle:2007:DDM

- [SZB⁺07] Achim Schädle, Lin Zschiedrich, Sven Burger, Roland Klose, and Frank Schmidt. Domain decomposition method for Maxwell's equations: scattering off periodic structures. *Journal of Computational Physics*, 226(1):477–493, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001684>.

Shen:2009:HOC

- [SZC09] Yiqing Shen, Gecheng Zha, and Xiangying Chen. High order conservative differencing for viscous terms and the application to vortex-induced vibration flows. *Journal of Computational Physics*, 228(22):8283–8300, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004409>.

Su:2007:CBA

- [SZH07] Xiaohui Su, Yong Zhao, and Xiaoyang Huang. On the characteristics-based ACM for incompressible flows. *Journal of Computational Physics*, 227(1):1–11, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700352X>.

Sun:2006:WFP

- [SZLW06] Yuhui Sun, Y. C. Zhou, Shu-Guang Li, and G. W. Wei. A windowed Fourier pseudospectral method for hyperbolic conservation laws. *Journal of Computational Physics*, 214(2):466–490, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004547>.

Sokolov:2001:SEG

- [SZS01] I. V. Sokolov, H.-M. Zhang, and J. I. Sakai. Simple and efficient Godunov scheme for computational relativistic gas dynamics. *Journal of Computational Physics*, 172(1):209–234, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968214>.

Shi:2003:RHO

- [SZS03] Jing Shi, Yong-Tao Zhang, and Chi-Wang Shu. Resolution of high order WENO schemes for complicated flow structures. *Journal of Computational Physics*, 186(2):690–696, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000949>.

Touma:2006:CFV

- [TA06] R. Touma and P. Arminjon. Central finite volume schemes with constrained transport divergence treatment for three-dimensional ideal MHD. *Journal of Computational Physics*, 212(2):617–636, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003487>.

Takakura:2006:DEF

- [Tak06] Yoko Takakura. Direct-expansion forms of ADER schemes for conservation laws and their verification. *Journal of Computational Physics*, 219(2):855–878, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002191>.

Traore:2009:REF

- [TAL09] Philippe Traoré, Yves Marcel Ahipo, and Christophe Louste. A robust and efficient finite volume scheme for the discretization of diffusive flux on extremely skewed meshes in complex geometries. *Journal of Computational Physics*, 228(14):5148–5159, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001958>.

Tan:2005:ASR

- [Tan05a] Xiaobo Tan. Almost symplectic Runge–Kutta schemes for Hamiltonian systems. *Journal of Computational Physics*, 203(1):250–273, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003262>.

Tang:2005:SPG

- [Tan05b] Huazhong Tang. On the sonic point glitch. *Journal of Computational Physics*, 202(2):507–532, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002967>.

Tang:2008:FDA

- [Tan08] Shaoqiang Tang. A finite difference approach with velocity interfacial conditions for multiscale computations of crystalline solids. *Journal of Computational Physics*, 227(8):4038–4062, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005621>.

Tausch:2007:FMS

- [Tau07] Johannes Tausch. A fast method for solving the heat equation by layer potentials. *Journal of Computational Physics*, 224(2):956–969, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005602>.

Tausch:2000:FMP

- [TB00a] Johannes Tausch and Jerome Butler. Floquet multipliers of periodic waveguides via Dirichlet-to-Neumann maps. *Journal of Computational Physics*, 159(1):90–102, March 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964349>.

Torres:2000:PSM

- [TB00b] D. J. Torres and J. U. Brackbill. The point-set method: Front-tracking without connectivity. *Journal of Computational Physics*, 165(2):620–644, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096635X>.

Torrilhon:2004:HOW

- [TB04] M. Torrilhon and D. S. Balsara. High order WENO schemes: investigations on non-uniform convergence for

MHD Riemann problems. *Journal of Computational Physics*, 201(2):586–600, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002566>.

Tang:2006:IGT

- [TB06] Lei Tang and James D. Baeder. Improving Godunov-type reconstructions for simulation of vortex-dominated flows. *Journal of Computational Physics*, 213(2):659–675, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004110>.

Torres:2009:FRB

- [TB09] Claudio E. Torres and L. A. Barba. Fast radial basis function interpolation with Gaussians by localization and iteration. *Journal of Computational Physics*, 228(14):4976–4999, August 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001156>.

Tryggvason:2001:FTM

- [TBE⁺01] G. Tryggvason, B. Bunner, A. Esmaeeli, D. Juric, N. Al-Rawahi, W. Tauber, J. Han, S. Nas, and Y.-J. Jan. A front-tracking method for the computations of multiphase flow. *Journal of Computational Physics*, 169(2):708–759, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967269>.

Thommes:2009:LBM

- [TBJ⁺09] G. Thömmes, J. Becker, M. Junk, A. K. Vaikuntam, D. Kehrwald, A. Klar, K. Steiner, and A. Wiegmann. A lattice Boltzmann method for immiscible multiphase flow simulations using the level set method. *Journal of Computational Physics*, 228(4):1139–1156, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800541X>.

Tegze:2009:AOS

- [TBT⁺09] György Tegze, Gurvinder Bansal, Gyula I. Tóth, Tamás Pusztai, Zhongyun Fan, and László Gránásy. Advanced operator splitting-based semi-implicit spectral method to solve the binary phase-field crystal equations with variable coefficients. *Journal of Computational Physics*, 228(5):1612–1623, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005858>.

Tolstykh:2001:TSL

- [TC01a] A. I. Tolstykh and E. N. Chigirev. On thin shear layers numerical simulation. *Journal of Computational Physics*, 166(1):152–158, January 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966427>.

Trebotich:2001:PMI

- [TC01b] David P. Trebotich and Phillip Colella. A projection method for incompressible viscous flow on moving quadrilateral grids. *Journal of Computational Physics*, 166(2):191–217, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966543>.

Tavener:2002:TFM

- [TC02] S. J. Tavener and K. A. Cliffe. Two-fluid Marangoni–Bénard convection with a deformable interface. *Journal of Computational Physics*, 182(1):277–300, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971676>.

Taira:2007:IBM

- [TC07a] Kunihiko Taira and Tim Colonius. The immersed boundary method: a projection approach. *Journal of Computational Physics*, 225(2):2118–2137, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001234>.

Tong:2007:NME

- [TC07b] Mei Song Tong and Weng Cho Chew. Nyström method for elastic wave scattering by three-dimensional obstacles. *Journal of Computational Physics*, 226(2):1845–1858, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002653>.

Tlupova:2009:BIS

- [TC09a] Svetlana Tlupova and Ricardo Cortez. Boundary integral solutions of coupled Stokes and Darcy flows. *Journal of Computational Physics*, 228(1):158–179, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004713>.

Tong:2009:MFM

- [TC09b] Mei Song Tong and Weng Cho Chew. Multilevel fast multipole algorithm for elastic wave scattering by large three-dimensional objects. *Journal of Computational Physics*, 228(3):921–932, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005330>.

Tome:2000:NSA

- [TCM⁺00] M. F. Tome, A. Castelo, J. Murakami, J. A. Cuminato, R. Minghim, M. C. F. Oliveira, N. Mangiavacchi, and S. McKee. Numerical simulation of axisymmetric free surface flows. *Journal of Computational Physics*, 157(2):441–472, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963489>.

Trebotich:2005:SCS

- [TCM05] D. Trebotich, P. Colella, and G. H. Miller. A stable and convergent scheme for viscoelastic flow in contraction channels. *Journal of Computational Physics*, 205(1):315–342, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004693>.

Thalhammer:2009:HOT

- [TCN09] Mechthild Thalhammer, Marco Caliarì, and Christof Neuhauser. High-order time-splitting Hermite and Fourier spectral methods. *Journal of Computational Physics*, 228(3):822–832, February 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005251>.

Tsai:2004:VDP

- [TCO⁺04] Y.-H. R. Tsai, L.-T. Cheng, S. Osher, P. Burchard, and G. Sapiro. Visibility and its dynamics in a PDE based implicit framework. *Journal of Computational Physics*, 199(1):260–290, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000841>.

Tian:2007:HOC

- [TD07] Z. F. Tian and S. Q. Dai. High-order compact exponential finite difference methods for convection-diffusion type problems. *Journal of Computational Physics*, 220(2):952–974, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002701>.

Tome:2008:NSV

- [TdAAP08] M. F. Tomé, M. S. B. de Araujo, M. A. Alves, and F. T. Pinho. Numerical simulation of viscoelastic flows using integral constitutive equations: a finite difference approach. *Journal of Computational Physics*, 227(8):4207–4243, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005712>.

Toth:2006:PEI

- [TDGP06] Gábor Tóth, Darren L. De Zeeuw, Tamas I. Gombosi, and Kenneth G. Powell. A parallel explicit/implicit time stepping scheme on block-adaptive grids. *Journal of Computational Physics*, 217(2):722–758, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000337>.

Tromeur-Dervout:2006:CIG

- [TDV06] Damien Tromeur-Dervout and Yuri Vassilevski. Choice of initial guess in iterative solution of series of systems arising in fluid flow simulations. *Journal of Computational Physics*, 219(1):210–227, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001483>.

Thornber:2008:EGD

- [TDWY08] B. Thornber, D. Drikakis, R. J. R. Williams, and D. Youngs. On entropy generation and dissipation of kinetic energy in high-resolution shock-capturing schemes. *Journal of Computational Physics*, 227(10):4853–4872, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000405>.

Tornberg:2004:NAS

- [TE04] Anna-Karin Tornberg and Björn Engquist. Numerical approximations of singular source terms in differential equations. *Journal of Computational Physics*, 200(2):462–488, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001767>.

Tornberg:2008:CBC

- [TE08] Anna-Karin Tornberg and Björn Engquist. Consistent boundary conditions for the Yee scheme. *Journal of Computational Physics*, 227(14):6922–6943, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002039>.

Temam:2006:SIC

- [Tem06] Roger Temam. Suitable initial conditions. *Journal of Computational Physics*, 218(2):443–450, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001884>.

Teng:2003:EBC

- [Ten03] Zhen-Huan Teng. Exact boundary condition for time-dependent wave equation based on boundary integral. *Journal of Computational Physics*, 190(2):398–418, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300281X>.

Tanushev:2009:GBD

- [TET09] Nicolay M. Tanushev, Björn Engquist, and Richard Tsai. Gaussian beam decomposition of high frequency wave fields. *Journal of Computational Physics*, 228(23):8856–8871, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004768>.

Tseng:2003:GCI

- [TF03] Yu-Heng Tseng and Joel H. Ferziger. A ghost-cell immersed boundary method for flow in complex geometry. *Journal of Computational Physics*, 192(2):593–623, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004108>.

Teyssier:2006:KDU

- [TFD06] Romain Teyssier, Sébastien Fromang, and Emmanuel Dormy. Kinematic dynamos using constrained transport with high order Godunov schemes and adaptive mesh refinement. *Journal of Computational Physics*, 218(1):44–67, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000593>.

Turpault:2004:MHS

- [TFDK04] R. Turpault, M. Frank, B. Dubroca, and A. Klar. Multi-group half space moment approximations to the radiative heat transfer equations. *Journal of Computational Physics*, 198(1):363–371, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000336>.

Tysanner:2004:MBF

- [TG04] Martin W. Tysanner and Alejandro L. Garcia. Measurement bias of fluid velocity in molecular simulations. *Journal of Computational Physics*, 196(1):173–183, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005928>.

Tornberg:2006:NMS

- [TG06] Anna-Karin Tornberg and Katarina Gustavsson. A numerical method for simulations of rigid fiber suspensions. *Journal of Computational Physics*, 215(1):172–196, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004845>.

Tornberg:2008:FMM

- [TG08] Anna-Karin Tornberg and Leslie Greengard. A fast multipole method for the three-dimensional Stokes equations. *Journal of Computational Physics*, 227(3):1613–1619, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002744>.

Tomar:2007:TPE

- [TGB⁺07] G. Tomar, D. Gerlach, G. Biswas, N. Alleborn, A. Sharma, F. Durst, S. W. J. Welch, and A. Delgado. Two-phase electrohydrodynamic simulations using a volume-of-fluid approach. *Journal of Computational Physics*, 227(2):1267–1285, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003932>.

Thuburn:2001:ANA

- [TH01] John Thuburn and Thomas W. N. Haine. Adjoints of nonoscillatory advection schemes. *Journal of Computational Physics*, 171(2):616–631, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967993>.

Toro:2009:FSU

- [THD09] Eleuterio F. Toro, Arturo Hidalgo, and Michael Dumbser. FORCE schemes on unstructured meshes I: Conservative hyperbolic systems. *Journal of Computational Physics*, 228(9):3368–3389, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000412>.

Tang:2006:PSM

- [THL06] Shaoqiang Tang, Thomas Y. Hou, and Wing Kam Liu. A pseudo-spectral multiscale method: Interfacial conditions and coarse grid equations. *Journal of Computational Physics*, 213(1):57–85, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003591>.

Tian:2007:DRT

- [THN⁺07] Yue Tian, S.-H. Hung, Guust Nolet, Raffaella Montelli, and F. A. Dahlen. Dynamic ray tracing and travelttime corrections for global seismic tomography. *Journal of Computational Physics*, 226(1):672–687, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700201X>.

Thommes:2004:LIS

- [Thö04] Guido Thömmes. A linear iterative scheme for the fast solution of the radiative heat transfer equations for glass. *Journal of Computational Physics*, 193(2):544–562, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004182>.

Touil:2007:TDH

- [THS07] H. Touil, M. Y. Hussaini, and M. Sussman. Tracking discontinuities in hyperbolic conservation laws with spectral accuracy. *Journal of Computational Physics*, 225(2):1810–1826, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000885>.

Thuburn:2008:NWP

- [Thu08a] J. Thuburn. Numerical wave propagation on the hexagonal C-grid. *Journal of Computational Physics*, 227(11):5836–5858, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001162>.

Thuburn:2008:SCI

- [Thu08b] J. Thuburn. Some conservation issues for the dynamical cores of NWP and climate models. *Journal of Computational Physics*, 227(7):3715–3730, March 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003755>.

Tam:2009:FDC

- [TJ09] Christopher K. W. Tam and Hongbin Ju. Finite difference computation of acoustic scattering by small surface inhomogeneities and discontinuities. *Journal of Computational Physics*, 228(16):5917–5932, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002447>.

Tyagi:2008:LSM

- [TJLT08] Manav Tyagi, Patrick Jenny, Ivan Lunati, and Hamdi A. Tchelepi. A Lagrangian, stochastic modeling framework for multi-phase flow in porous media. *Journal of Computational Physics*, 227(13):6696–6714, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001745>.

Tang:2003:OGM

- [TJS03] H. S. Tang, S. Casey Jones, and Fotis Sotiropoulos. An overset-grid method for 3D unsteady incompressible flows. *Journal of Computational Physics*, 191(2):567–600, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003310>.

Tam:2000:WBE

- [TK00] Christopher K. W. Tam and Konstantin A. Kurbatskii. A wavenumber based extrapolation and interpolation method for use in conjunction with high-order finite difference schemes. *Journal of Computational Physics*, 157(2):588–617, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963933>.

Timonov:2002:EAS

- [TK02] Alexandre Timonov and Michael V. Klibanov. An efficient algorithm for solving the inverse problem of locating the interfaces using the frequency sounding data. *Journal of Computational Physics*, 183(2):422–437, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972001>.

Trangenstein:2004:OSA

- [TK04] John A. Trangenstein and Chisup Kim. Operator splitting and adaptive mesh refinement for the Luo–Rudy I model. *Journal of Computational Physics*, 196(2):645–679, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006119>.

Tiwari:2009:PPH

- [TKH09] Sudarshan Tiwari, Axel Klar, and Steffen Hardt. A particle-particle hybrid method for kinetic and continuum equations. *Journal of Computational Physics*, 228(18):7109–7124, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003428>.

Tang:2006:NCS

- [TL06] Huazhong Tang and Tiegang Liu. A note on the conservative schemes for the Euler equations. *Journal of Computational Physics*, 218(2):451–459, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001896>.

Tang:2004:ROD

- [TLAD04] Deman Tang, Aiqin Li, Peter Attar, and Earl H. Dowell. Reduced order dynamic model for polysaccharides molecule attached to an atomic force microscope. *Journal of Computational Physics*, 201(2):723–752, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002621>.

Tan:2007:AMR

- [TLK07] Zhijun Tan, K. M. Lim, and B. C. Khoo. An adaptive mesh redistribution method for the incompressible mixture flows using phase-field model. *Journal of Computational Physics*, 225(1):1137–1158, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000344>.

Tan:2009:IIM

- [TLK09] Zhijun Tan, K. M. Lim, and B. C. Khoo. An immersed interface method for Stokes flows with fixed/moving interfaces and rigid boundaries. *Journal of Computational Physics*, 228(18):6855–6881, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003271>.

Tan:2008:IIM

- [TLL⁺08] Zhijun Tan, D. V. Le, Zhilin Li, K. M. Lim, and B. C. Khoo. An immersed interface method for solving incompressible viscous flows with piecewise constant viscosity across a moving elastic membrane. *Journal of Computational Physics*, 227(23):9955–9983, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004464>.

Tartakovsky:2005:SPH

- [TM05] Alexandre M. Tartakovsky and Paul Meakin. A smoothed particle hydrodynamics model for miscible flow in three-dimensional fractures and the two-dimensional Rayleigh–Taylor instability. *Journal of Computational Physics*, 207

(2):610–624, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000434>.

Tadjeran:2007:SOA

- [TM07] Charles Tadjeran and Mark M. Meerschaert. A second-order accurate numerical method for the two-dimensional fractional diffusion equation. *Journal of Computational Physics*, 220(2):813–823, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002610>.

Tanguy:2007:LSM

- [TMB07] Sébastien Tanguy, Thibaut Ménard, and Alain Berlemont. A level set method for vaporizing two-phase flows. *Journal of Computational Physics*, 221(2):837–853, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003214>.

Thornber:2007:ILE

- [TMD07] Ben Thornber, Andrew Mosedale, and Dimitris Drikakis. On the implicit large eddy simulations of homogeneous decaying turbulence. *Journal of Computational Physics*, 226(2):1902–1929, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002690>.

Thornber:2008:IRM

- [TMD⁺08] B. Thornber, A. Mosedale, D. Drikakis, D. Youngs, and R. J. R. Williams. An improved reconstruction method for compressible flows with low Mach number features. *Journal of Computational Physics*, 227(10):4873–4894, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000429>.

Toth:2008:HMB

- [TMG08] Gábor Tóth, Yingjuan Ma, and Tamas I. Gombosi. Hall magnetohydrodynamics on block-adaptive grids. *Journal of Computational Physics*, 227(14):6967–6984, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002076>.

Tian:2007:CTA

- [TMND07] Yue Tian, Raffaella Montelli, Guust Nolet, and F. A. Dahlen. Computing traveltime and amplitude sensitivity kernels in finite-frequency tomography. *Journal of Computational Physics*, 226(2):2271–2288, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003129>.

Tadjeran:2006:SOA

- [TMS06] Charles Tadjeran, Mark M. Meerschaert, and Hans-Peter Scheffler. A second-order accurate numerical approximation for the fractional diffusion equation. *Journal of Computational Physics*, 213(1):205–213, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003773>.

Tartakovsky:2007:SRT

- [TMSW07] Alexandre M. Tartakovsky, Paul Meakin, Timothy D. Scheibe, and Rogene M. Eichler West. Simulations of reactive transport and precipitation with smoothed particle hydrodynamics. *Journal of Computational Physics*, 222(2):654–672, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600372X>.

Tai:2002:SCF

- [TNGH02] Y. C. Tai, S. Noelle, J. M. N. T. Gray, and K. Hutter. Shock-capturing and front-tracking methods for granular avalanches. *Journal of Computational Physics*, 175(1):269–301, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969463>.

Tymczak:2002:SNM

- [TNR02] C. J. Tymczak, Anders M. N. Niklasson, and Heinrich Röder. Separable and nonseparable multiwavelets in multiple dimensions. *Journal of Computational Physics*, 175(2):363–397, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967439>.

Tokar:2006:NSC

- [Tok06a] Mikhail Z. Tokar. Numerical solution of continuity equation with a flux non-linearly depending on the density gradient. *Journal of Computational Physics*, 220(1):175–183, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002270>.

Tokman:2006:EIL

- [Tok06b] M. Tokman. Efficient integration of large stiff systems of ODEs with exponential propagation iterative (EPI) methods. *Journal of Computational Physics*, 213(2):748–776, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004158>.

Tolstykh:2002:EVD

- [Tol02a] Mikhail A. Tolstykh. Erratum: “Vorticity-Divergence Semi-Lagrangian Shallow-Water Model of the Sphere Based on Compact Finite Differences”: Volume 179, Number 1 (June 10, 2002), pages 180–200. *Journal of Computational Physics*, 181(1):394, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971354>. See [Tol02b].

Tolstykh:2002:VDS

- [Tol02b] Mikhail A. Tolstykh. Vorticity-divergence semi-Lagrangian shallow-water model of the sphere based on compact finite differences. *Journal of Computational Physics*, 179(1):180–200, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970506>. See erratum [Tol02a].

Tolstykh:2007:DAO

- [Tol07] Andrei I. Tolstykh. Development of arbitrary-order multioperators-based schemes for parallel calculations. 1: Higher-than-fifth-order approximations to convection terms. *Journal of Computational Physics*, 225(2):2333–2353, August 10, 2007. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001350>.

Tolstykh:2008:DAO

- [Tol08] Andrei I. Tolstykh. Development of arbitrary-order multioperators-based schemes for parallel calculations.: Part 2: Families of compact approximations with two-diagonal inversions and related multioperators. *Journal of Computational Physics*, 227(5):2922–2940, February 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005207>.

Torrilhon:2003:NUC

- [Tor03] M. Torrilhon. Non-uniform convergence of finite volume schemes for Riemann problems of ideal magnetohydrodynamics. *Journal of Computational Physics*, 192(1):73–94, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003474>.

Toth:2000:CSC

- [Tót00] Gábor Tóth. The $\nabla \cdot \mathbf{B} = 0$ constraint in shock-capturing magnetohydrodynamics codes. *Journal of Computational Physics*, 161(2):605–652, July 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965197>.

Toth:2002:COD

- [Tót02] Gábor Tóth. Conservative and orthogonal discretization for the Lorentz force. *Journal of Computational Physics*, 182(1):346–354, October 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971779>.

Towers:2007:TMD

- [Tow07] John D. Towers. Two methods for discretizing a delta function supported on a level set. *Journal of Computational Physics*, 220(2):915–931, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002683>.

Towers:2008:CRT

- [Tow08] John D. Towers. A convergence rate theorem for finite difference approximations to delta functions. *Journal of Computational Physics*, 227(13):6591–6597, June 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001708>.

Towers:2009:DDF

- [Tow09a] John D. Towers. Discretizing delta functions via finite differences and gradient normalization. *Journal of Computational Physics*, 228(10):3816–3836, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000825>.

Towers:2009:FDM

- [Tow09b] John D. Towers. Finite difference methods for approximating Heaviside functions. *Journal of Computational Physics*, 228(9):3478–3489, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000576>.

Toda:2009:MDC

- [TOY09] Kunihiko Toda, Youichi Ogata, and Takashi Yabe. Multi-dimensional conservative semi-Lagrangian method of characteristics CIP for the shallow water equations. *Journal of Computational Physics*, 228(13):4917–4944, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001910>.

Takagi:2003:PNM

- [TOZP03] S. Takagi, H. N. Oğuz, Z. Zhang, and A. Prosperetti. PHYSALIS: a new method for particle simulation: Part II: two-dimensional Navier–Stokes flow around cylinders. *Journal of Computational Physics*, 187(2):371–390, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000779>.

Tsidulko:2005:MPC

- [TPR05] Yu. Tsidulko, R. Pozzoli, and M. Romé. MEP: a 3D PIC code for the simulation of the dynamics of a non-neutral plasma. *Journal of Computational Physics*, 209(2):406–420, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001312>.

Thanh:2007:VFM

- [TPV07] K.-C. Le Thanh, C. Parzani, and M.-H. Vignal. A volume of fluid method for a two-dimensional plasma expansion problem. *Journal of Computational Physics*, 225(2):1937–1960, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000940>.

Turiel:2006:NME

- [TPVG06] Antonio Turiel, Conrad J. Pérez-Vicente, and Jacopo Grazzini. Numerical methods for the estimation of multifractal singularity spectra on sampled data: a comparative study. *Journal of Computational Physics*, 216(1):362–390, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005565>.

Toledo:2002:VLE

- [TR02a] Sivan Toledo and Eran Rabani. Very large electronic structure calculations using an out-of-core filter-diagonalization method. *Journal of Computational Physics*, 180(1):256–269, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970907>.

Toth:2002:DCP

- [TR02b] G. Tóth and P. L. Roe. Divergence- and curl-preserving prolongation and restriction formulas. *Journal of Computational Physics*, 180(2):736–750, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971202>.

Toy:2007:CAV

- [TR07] Michael D. Toy and David A. Randall. Comment on the article “Vertical discretizations for compressible Euler equation atmospheric models giving optimal representation of normal modes” by thuburn and woollings. *Journal of Computational Physics*, 223(1):82–88, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004256>. See [TW05].

Tzivion:2001:NFS

- [TRL01] Shalva Tzivion, Tamir G. Reisin, and Zev Levin. A new formulation of the spectral multi-moment method for calculating the kinetic collection equation: More accuracy with fewer bins. *Journal of Computational Physics*, 171(1):418–422, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967762>.

Thuburn:2009:NRG

- [TRSK09] J. Thuburn, T. D. Ringler, W. C. Skamarock, and J. B. Klemp. Numerical representation of geostrophic modes on arbitrarily structured C-grids. *Journal of Computational Physics*, 228(22):8321–8335, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004434>.

Thomas:2001:SOR

- [TS01] Ingo Thomas and Thomas Sonar. On a second order residual estimator for numerical schemes for nonlinear hyperbolic conservation laws. *Journal of Computational Physics*, 171(1):227–242, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967841>.

Tran:2002:HOM

- [TS02] Quang Huy Tran and Bruno Scheurer. High-order monotonicity-preserving compact schemes for linear scalar advection on 2-D irregular meshes. *Journal of Computational Physics*, 175(2):454–486, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999101969529>.

Tornberg:2004:SDI

- [TS04] Anna-Karin Tornberg and Michael J. Shelley. Simulating the dynamics and interactions of flexible fibers in Stokes flows. *Journal of Computational Physics*, 196(1):8–40, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005837>.

Tskhakaya:2007:OPC

- [TS07] D. Tskhakaya and R. Schneider. Optimization of PIC codes by improved memory management. *Journal of Computational Physics*, 225(1):829–839, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700006X>.

Torrilhon:2008:BCR

- [TS08] Manuel Torrilhon and Henning Struchtrup. Boundary conditions for regularized 13-moment-equations for micro-channel flows. *Journal of Computational Physics*, 227(3):1982–2011, January 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004433>.

Terracol:2001:MAL

- [TSB01] Marc Terracol, Pierre Sagaut, and Claude Basdevant. A multilevel algorithm for large-eddy simulation of turbulent compressible flows. *Journal of Computational Physics*, 167(2):439–474, March 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966877>.

Terracol:2003:TSA

- [TSB03] M. Terracol, P. Sagaut, and C. Basdevant. A time self-adaptive multilevel algorithm for large-eddy simulation. *Journal of Computational Physics*, 184(2):339–365, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000177>.

Tomita:2002:OIG

- [TSG02] Hirofumi Tomita, Masaki Satoh, and Koji Goto. An optimization of the icosahedral grid modified by spring dynamics. *Journal of Computational Physics*, 183(1):307–331, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971937>.

Teleaga:2006:RMT

- [TSG⁺06] Ioan Teleaga, Mohammed Seaïd, Ingenuin Gasser, Axel Klar, and Jens Struckmeier. Radiation models for thermal flows at low Mach number. *Journal of Computational Physics*, 215(2):506–525, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005012>.

Tsukerman:2006:CDS

- [Tsu06] Igor Tsukerman. A class of difference schemes with flexible local approximation. *Journal of Computational Physics*, 211(2):659–699, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002925>.

Tsynkov:2003:ABC

- [Tsy03] S. V. Tsynkov. Artificial boundary conditions for the numerical simulation of unsteady acoustic waves. *Journal of Computational Physics*, 189(2):626–650, August 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002493>.

Tsynkov:2004:ALB

- [Tsy04] S. V. Tsynkov. On the application of lacunae-based methods to Maxwell's equations. *Journal of Computational Physics*, 199(1):126–149, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000798>.

Titarev:2004:FVW

- [TT04] V. A. Titarev and E. F. Toro. Finite-volume WENO schemes for three-dimensional conservation laws. *Journal of Computational Physics*, 201(1):238–260, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002281>.

Titarev:2005:AST

- [TT05a] V. A. Titarev and E. F. Toro. ADER schemes for three-dimensional non-linear hyperbolic systems. *Journal of Computational Physics*, 204(2):715–736, April 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004358>.

Toro:2005:ASS

- [TT05b] E. F. Toro and V. A. Titarev. ADER schemes for scalar non-linear hyperbolic conservation laws with source terms in three-space dimensions. *Journal of Computational Physics*, 202(1):196–215, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002736>.

Toro:2006:DRS

- [TT06a] E. F. Toro and V. A. Titarev. Derivative Riemann solvers for systems of conservation laws and ADER methods. *Journal of Computational Physics*, 212(1):150–165, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003141>.

Toro:2006:MFS

- [TT06b] E. F. Toro and V. A. Titarev. MUSTA fluxes for systems of conservation laws. *Journal of Computational Physics*, 216(2):403–429, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005589>.

Torres:2006:KUA

- [TT06c] David J. Torres and Mario F. Trujillo. KIVA-4: An unstructured ALE code for compressible gas flow with sprays. *Journal of Computational Physics*, 219(2):943–975, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600338X>.

Terashima:2009:FTG

- [TT09] Hiroshi Terashima and Grétar Tryggvason. A front-tracking/ghost-fluid method for fluid interfaces in compressible flows. *Journal of Computational Physics*, 228(11):4012–4037, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000898>.

Tomita:2001:SWM

- [TTSG01] Hirofumi Tomita, Motohiko Tsugawa, Masaki Satoh, and Koji Goto. Shallow water model on a modified icosahedral geodesic grid by using spring dynamics. *Journal of Computational Physics*, 174(2):579–613, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968974>.

Tang:2003:AMR

- [TTZ03] H.-Z. Tang, Tao Tang, and Pingwen Zhang. An adaptive mesh redistribution method for nonlinear Hamilton–Jacobi equations in two- and three-dimensions. *Journal of Computational Physics*, 188(2):543–572, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300192X>.

Tran:2004:PLS

- [TU04] L. B. Tran and H. S. Udaykumar. A particle-level set-based sharp interface Cartesian grid method for impact, penetration, and void collapse. *Journal of Computational Physics*, 193(2):469–510, January 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003760>.

Tucker:2003:DEB

- [Tuc03] P. G. Tucker. Differential equation-based wall distance computation for DES and RANS. *Journal of Computational Physics*, 190(1):229–248, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002729>.

Tosatto:2008:NSU

- [TV08] Luca Tosatto and Luigi Vigevano. Numerical solution of under-resolved detonations. *Journal of Computational Physics*, 227(4):2317–2343, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004639>.

Talon:2003:FVC

- [TVMR03] Suzanne Talon, Alain Vincent, Georges Michaud, and Jacques Richer. A finite volume code for meridional circulation in stars. *Journal of Computational Physics*, 184(1):244–265, January 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000293>.

Trahan:2003:RBF

- [TW03] Corey J. Trahan and Robert E. Wyatt. Radial basis function interpolation in the quantum trajectory method: optimization of the multi-quadric shape parameter. *Journal of Computational Physics*, 185(1):27–49, February 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000463>.

Thuburn:2005:VDC

- [TW05] J. Thuburn and T. J. Woollings. Vertical discretizations for compressible Euler equation atmospheric models giving optimal representation of normal modes. *Journal of Computational Physics*, 203(2):386–404, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003316>. See comment [TR07].

Tong:2007:NMC

- [TW07] Albert Y. Tong and Zhaoyuan Wang. A numerical method for capillarity-dominant free surface flows. *Journal of Computational Physics*, 221(2):506–523, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003007>.

Taylor:2007:ONE

- [TWM07] Ellen M. Taylor, Minwei Wu, and M. Pino Martín. Optimization of nonlinear error for weighted essentially non-oscillatory methods in direct numerical simulations of compressible turbulence. *Journal of Computational Physics*, 223(1):384–397, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004426>.

Tuminaro:2002:BFN

- [TWS02] Raymond S. Tuminaro, Homer F. Walker, and John N. Shadid. On backtracking failure in Newton–GMRES methods with a demonstration for the Navier–Stokes equations. *Journal of Computational Physics*, 180(2):549–558, August 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971020>.

Tang:2006:HOP

- [TWYC06] Chen Tang, Wenping Wang, Haiqing Yan, and Zhanqing Chen. High-order predictor-corrector of exponential fitting for the N -body problems. *Journal of Computational Physics*, 214(2):505–520, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004560>.

Tang:2000:HOG

- [TX00] Hua-Zhong Tang and Kun Xu. A high-order gas-kinetic method for multidimensional ideal magnetohydrodynamics. *Journal of Computational Physics*, 165(1):69–88, November 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965975>.

Tartakovsky:2006:SAT

- [TX06] Daniel M. Tartakovsky and Dongbin Xiu. Stochastic analysis of transport in tubes with rough walls. *Journal of Computational Physics*, 217(1):248–259, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001215>.

Tian:2007:TDM

- [TXCD07] C. T. Tian, K. Xu, K. L. Chan, and L. C. Deng. A three-dimensional multidimensional gas-kinetic scheme for the Navier–Stokes equations under gravitational fields. *Journal of Computational Physics*, 226(2):2003–2027, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002756>.

Tu:2007:CBS

- [TY07] Guo-Hua Tu and Xiang-Jiang Yuan. A characteristic-based shock-capturing scheme for hyperbolic problems. *Journal of Computational Physics*, 225(2):2083–2097, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001210>.

Tygert:2008:FAS

- [Tyg08] Mark Tygert. Fast algorithms for spherical harmonic expansions, II. *Journal of Computational Physics*, 227(8):4260–4279, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005736>.

Tai:2003:PUI

- [TZ03] Chin Hoe Tai and Yong Zhao. Parallel unsteady incompressible viscous flow computations using an unstructured multigrid method. *Journal of Computational Physics*, 192(1):277–311, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003796>.

Tan:2006:LSS

- [TZ06] Lijian Tan and Nicholas Zabaras. A level set simulation of dendritic solidification with combined features of front-tracking and fixed-domain methods. *Journal of Computational Physics*, 211(1):36–63, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002603>.

Tan:2007:LSS

- [TZ07a] Lijian Tan and Nicholas Zabaras. A level set simulation of dendritic solidification of multi-component alloys. *Journal of Computational Physics*, 221(1):9–40, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002737>.

Tan:2007:MGI

- [TZ07b] Lijian Tan and Nicholas Zabaras. Modeling the growth and interaction of multiple dendrites in solidification using a level set method. *Journal of Computational Physics*, 226(1):131–155, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001465>.

Tan:2007:MMA

- [TZ07c] Lijian Tan and Nicholas Zabaras. Multiscale modeling of alloy solidification using a database approach. *Journal of Computational Physics*, 227(1):728–754, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003555>.

Tan:2004:MMM

- [TZHT04] Zhijun Tan, Zhengru Zhang, Yunqing Huang, and Tao Tang. Moving mesh methods with locally varying time steps. *Journal of Computational Physics*, 200(1):347–367, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001706>.

Tai:2005:PCU

- [TZL05] C. H. Tai, Y. Zhao, and K. M. Liew. Parallel computation of unsteady incompressible viscous flows around moving rigid bodies using an immersed object method with overlapping grids. *Journal of Computational Physics*, 207(1):151–172, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000215>.

Unfer:2007:ASL

- [UBRT07] Thomas Unfer, Jean-Pierre Boeuf, François Rogier, and Frédéric Thivet. An asynchronous scheme with local time stepping for multi-scale transport problems: Application to gas discharges. *Journal of Computational Physics*, 227(2):898–918, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003312>.

Ueki:2001:EMC

- [UH01] Taro Ueki and J. Eduard Hoogenboom. Exact Monte Carlo perturbation analysis by forward-adjoint coupling in radiation transport calculations. *Journal of Computational Physics*, 171(2):509–533, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967889>.

Uhlmann:2005:IBM

- [Uhl05] Markus Uhlmann. An immersed boundary method with direct forcing for the simulation of particulate flows. *Journal of Computational Physics*, 209(2):448–476, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001385>.

Ujevic:2006:SPD

- [UL06] Maximiliano Ujevic and Patricio S. Letelier. Solving procedure for a 25-diagonal coefficient matrix: Direct numerical solutions of the three-dimensional linear Fokker–Planck equation. *Journal of Computational Physics*, 215(2):485–505, July

1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005000>.

Udaykumar:2001:SIC

- [UMRK01] H. S. Udaykumar, R. Mittal, P. Rampunggoon, and A. Khanna. A sharp interface Cartesian grid method for simulating flows with complex moving boundaries. *Journal of Computational Physics*, 174(1):345–380, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969165>.

Ustyugov:2009:PPM

- [UPKN09] Sergey D. Ustyugov, Mikhail V. Popov, Alexei G. Kritsuk, and Michael L. Norman. Piecewise parabolic method on a local stencil for magnetized supersonic turbulence simulation. *Journal of Computational Physics*, 228(20):7614–7633, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003830>.

Udaykumar:2003:EMC

- [UTBV03] H. S. Udaykumar, L. Tran, D. M. Belk, and K. J. Vanden. An Eulerian method for computation of multimaterial impact with ENO shock-capturing and sharp interfaces. *Journal of Computational Physics*, 186(1):136–177, March 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000275>.

Utnes:2008:SIP

- [Utn08] T. Utnes. A segregated implicit pressure projection method for incompressible flows. *Journal of Computational Physics*, 227(4):2198–2211, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700486X>.

Utsumi:2004:NBS

- [UYK⁺04] Takayuki Utsumi, Takashi Yabe, James Koga, Takayuki Aoki, Masatoshi Sekine, Youichi Ogata, and Eiichi Matsunaga. A note on the basis set approach in the constrained interpolation

profile method. *Journal of Computational Physics*, 196(1):1–7, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005874>.

Vasilyev:2000:HOF

- [Vas00] Oleg V. Vasilyev. High order finite difference schemes on non-uniform meshes with good conservation properties. *Journal of Computational Physics*, 157(2):746–761, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963982>.

Vay:2000:NAL

- [Vay00] Jean-Luc Vay. A new absorbing layer boundary condition for the wave equation. *Journal of Computational Physics*, 165(2):511–521, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966233>.

Vay:2001:EFS

- [Vay01] Jean-Luc Vay. An extended FDTD scheme for the wave equation: Application to multiscale electromagnetic simulation. *Journal of Computational Physics*, 167(1):72–98, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966592>.

Vay:2002:APM

- [Vay02] Jean-Luc Vay. Asymmetric perfectly matched layer for the absorption of waves. *Journal of Computational Physics*, 183(2):367–399, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971755>.

Vasilyev:2000:SGW

- [VB00] Oleg V. Vasilyev and Christopher Bowman. Second-generation wavelet collocation method for the solution of partial differential equations. *Journal of Computational Physics*, 165(2):660–693, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999100966385>.

Veerapaneni:2008:CFG

- [VB08] Shravan K. Veerapaneni and George Biros. The Chebyshev fast Gauss and nonuniform fast Fourier transforms and their application to the evaluation of distributed heat potentials. *Journal of Computational Physics*, 227(16):7768–7790, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002635>.

Vanella:2009:MLS

- [VB09] Marcos Vanella and Elias Balaras. A moving-least-squares reconstruction for embedded-boundary formulations. *Journal of Computational Physics*, 228(18):6617–6628, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003246>.

Vasil:2008:NMFa

- [VBJ08a] Geoffrey M. Vasil, Nicholas H. Brummell, and Keith Julien. A new method for fast transforms in parity-mixed PDEs: Part I. Numerical techniques and analysis. *Journal of Computational Physics*, 227(17):7999–8016, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002441>.

Vasil:2008:NMFb

- [VBJ08b] Geoffrey M. Vasil, Nicholas H. Brummell, and Keith Julien. A new method for fast transforms in parity-mixed PDEs: Part II. Application to confined rotating convection. *Journal of Computational Physics*, 227(17):8017–8034, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002428>.

vanBrummelen:2003:PIC

- [vBK03] E. H. van Brummelen and B. Koren. A pressure-invariant conservative Godunov-type method for barotropic two-fluid flows. *Journal of Computational Physics*, 185(1):289–308, February

10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910200058X>.

Vola:2003:LUF

- [VBL03] D. Vola, L. Boscardin, and J. C. Latché. Laminar unsteady flows of Bingham fluids: a numerical strategy and some benchmark results. *Journal of Computational Physics*, 187(2):441–456, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001189>.

Vola:2004:NSC

- [VBL04] D. Vola, F. Babik, and J.-C. Latché. On a numerical strategy to compute gravity currents of non-Newtonian fluids. *Journal of Computational Physics*, 201(2):397–420, December 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002359>.

VandenAbeeel:2007:DDP

- [VBL07] Kris Van den Abeeel, Tim Broeckhoven, and Chris Lacor. Dispersion and dissipation properties of the 1D spectral volume method and application to a p -multigrid algorithm. *Journal of Computational Physics*, 224(2):616–636, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005419>.

vanBrummelen:2001:ENS

- [vBRK01] E. H. van Brummelen, H. C. Raven, and B. Koren. Efficient numerical solution of steady free-surface Navier–Stokes flow. *Journal of Computational Physics*, 174(1):120–137, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968809>.

Vincent:2000:OCL

- [VC00] Stéphane Vincent and Jean-Paul Caltagirone. A one-cell local multigrid method for solving unsteady incompressible multiphase flows. *Journal of Computational Physics*, 163(1):172–215, September 1, 2000. CODEN

JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).
URL <http://www.sciencedirect.com/science/article/pii/S0021999100965665>.

Vaithianathan:2003:NAS

- [VC03] T. Vaithianathan and Lance R. Collins. Numerical approach to simulating turbulent flow of a viscoelastic polymer solution. *Journal of Computational Physics*, 187(1):1–21, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000287>.

Vasconcelos:2003:DTA

- [VCG03] Igor F. Vasconcelos, Isabelle Cantat, and James A. Glazier. Dynamics and topological aspects of a reconstructed two-dimensional foam time series using Potts model on a pinned lattice. *Journal of Computational Physics*, 192(1):1–20, November 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003413>.

Vosbeek:2000:ACD

- [VCM00] P. W. C. Vosbeek, H. J. H. Clercx, and R. M. M. Mattheij. Acceleration of contour dynamics simulations with a hierarchical-element method. *Journal of Computational Physics*, 161(1):287–311, June 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965057>.

Vanhille:2000:HOF

- [VCP00] Christian Vanhille and Cleofé Campos-Pozuelo. A high-order finite-difference algorithm for the analysis of standing acoustic waves of finite but moderate amplitude. *Journal of Computational Physics*, 165(2):334–353, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966117>.

Valerio:2007:FEI

- [VCT07] J. V. Valério, M. S. Carvalho, and C. Tomei. Filtering the eigenvalues at infinite from the linear stability

analysis of incompressible flows. *Journal of Computational Physics*, 227(1):229–243, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003282>.

Valerio:2009:ECS

- [VCT09] J. V. Valério, M. S. Carvalho, and C. Tomei. Efficient computation of the spectrum of viscoelastic flows. *Journal of Computational Physics*, 228(4):1172–1187, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005433>.

Vignolo:2002:EFD

- [VCTS02] P. Vignolo, M. L. Chiofalo, M. P. Tosi, and Sauro Succi. Explicit finite-difference and particle method for the dynamics of mixed Bose-condensate and cold-atom clouds. *Journal of Computational Physics*, 182(2):368–391, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971718>.

Vukovic:2004:WSB

- [VCZS04] Senka Vukovic, Nelida Crnjaric-Zic, and Luka Sopta. WENO schemes for balance laws with spatially varying flux. *Journal of Computational Physics*, 199(1):87–109, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000774>.

Venditti:2000:AEE

- [VD00] David A. Venditti and David L. Darmofal. Adjoint error estimation and grid adaptation for functional outputs: Application to quasi-one-dimensional flow. *Journal of Computational Physics*, 164(1):204–227, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966002>.

Venditti:2002:GAF

- [VD02] David A. Venditti and David L. Darmofal. Grid adaptation for functional outputs: Application to two-dimensional inviscid

flows. *Journal of Computational Physics*, 176(1):40–69, February 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969670>.

Venditti:2003:AGA

- [VD03] David A. Venditti and David L. Darmofal. Anisotropic grid adaptation for functional outputs: application to two-dimensional viscous flows. *Journal of Computational Physics*, 187(1):22–46, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000743>.

vanderBos:2009:NSP

- [vdBG09] Fedderik van der Bos and Volker Gravemeier. Numerical simulation of premixed combustion using an enriched finite element method. *Journal of Computational Physics*, 228(10):3605–3624, June 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000606>.

vandenDoel:2006:LSR

- [vdDA06] K. van den Doel and U. M. Ascher. On level set regularization for highly ill-posed distributed parameter estimation problems. *Journal of Computational Physics*, 216(2):707–723, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000076>.

vanderHolst:2007:HBA

- [vdHK07] B. van der Holst and R. Keppens. Hybrid block-AMR in Cartesian and curvilinear coordinates: MHD applications. *Journal of Computational Physics*, 226(1):925–946, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700215X>.

Velichko:2002:SCD

- [VDM⁺02] O. I. Velichko, V. A. Dobrushkin, A. N. Muchynski, V. A. Tsurko, and V. A. Zhuk. Simulation of coupled diffusion of impurity atoms and point defects under nonequi-

librium conditions in local domain. *Journal of Computational Physics*, 178(1):196–209, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970294>.

vanderSman:2000:CDL

- [vdSE00] R. G. M. van der Sman and M. H. Ernst. Convection-diffusion lattice Boltzmann scheme for irregular lattices. *Journal of Computational Physics*, 160(2):766–782, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096491X>.

vanderVen:2008:AMM

- [vdV08] H. van der Ven. An adaptive multitime multigrid algorithm for time-periodic flow simulations. *Journal of Computational Physics*, 227(10):5286–5303, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000788>.

vanderVegt:2002:STD

- [vdVvdV02] J. J. W. van der Vegt and H. van der Ven. Space-time discontinuous Galerkin finite element method with dynamic grid motion for inviscid compressible flows: I. General formulation. *Journal of Computational Physics*, 182(2):546–585, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971858>.

vanderVegt:2007:STD

- [vdVX07] J. J. W. van der Vegt and Yan Xu. Space-time discontinuous Galerkin method for nonlinear water waves. *Journal of Computational Physics*, 224(1):17–39, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005894>.

vanDam:2006:RMM

- [vDZ06] A. van Dam and P. A. Zegeling. A robust moving mesh finite volume method applied to 1D hyperbolic conservation laws from magnetohydrodynamics. *Journal of Com-*

computational Physics, 216(2):526–546, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005632>.

vanErp:2005:ETI

- [vEB05] Titus S. van Erp and Peter G. Bolhuis. Elaborating transition interface sampling methods. *Journal of Computational Physics*, 205(1):157–181, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004620>.

Verboncoeur:2001:SSW

- [Ver01] J. P. Verboncoeur. Symmetric spline weighting for charge and current density in particle simulation. *Journal of Computational Physics*, 174(1):421–427, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969232>.

Valorani:2001:ETS

- [VG01] Mauro Valorani and Dimitrios A. Goussis. Explicit time-scale splitting algorithm for stiff problems: Auto-ignition of gaseous mixtures behind a steady shock. *Journal of Computational Physics*, 169(1):44–79, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967099>.

Visbal:2002:UHO

- [VG02] Miguel R. Visbal and Datta V. Gaitonde. On the use of higher-order finite-difference schemes on curvilinear and deforming meshes. *Journal of Computational Physics*, 181(1):155–185, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971172>.

Veerapaneni:2009:NMS

- [VGBZ09] Shravan K. Veerapaneni, Denis Gueyffier, George Biros, and Denis Zorin. A numerical method for simulating the dynamics of 3D axisymmetric vesicles suspended in viscous flows.

Journal of Computational Physics, 228(19):7233–7249, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003441>.

Valorani:2005:HOC

- [VGCN05] Mauro Valorani, Dimitris A. Goussis, Francesco Creta, and Habib N. Najm. Higher order corrections in the approximation of low-dimensional manifolds and the construction of simplified problems with the CSP method. *Journal of Computational Physics*, 209(2):754–786, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001981>.

Veldman:2007:NSL

- [VGL⁺07] A. E. P. Veldman, J. Gerrits, R. Luppens, J. A. Helder, and J. P. B. Vreeburg. The numerical simulation of liquid sloshing on board spacecraft. *Journal of Computational Physics*, 224(1):82–99, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006139>.

VandenAbee:2009:SAS

- [VGPL09] K. Van den Abeele, G. Ghorbaniasl, M. Parsani, and C. Lacor. A stability analysis for the spectral volume method on tetrahedral grids. *Journal of Computational Physics*, 228(2):257–265, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005263>.

Vachal:2004:UMA

- [VGS04] Pavel Vachal, Rao V. Garimella, and Mikhail J. Shashkov. Untangling of 2D meshes in ALE simulations. *Journal of Computational Physics*, 196(2):627–644, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006107>.

Veerapaneni:2009:BIM

- [VGZB09] Shravan K. Veerapaneni, Denis Gueyffier, Denis Zorin, and George Biros. A boundary integral method for simulating the

dynamics of inextensible vesicles suspended in a viscous fluid in 2D. *Journal of Computational Physics*, 228(7):2334–2353, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006244>.

vanHeukelum:2002:DES

- [vHBB02] A. van Heukelum, G. T. Barkema, and R. H. Bisseling. DNA electrophoresis studied with the cage model. *Journal of Computational Physics*, 180(1):313–326, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970956>.

Visser:2005:CBM

- [VHI05] D. C. Visser, H. C. J. Hoefsloot, and P. D. Iedema. Comprehensive boundary method for solid walls in dissipative particle dynamics. *Journal of Computational Physics*, 205(2):626–639, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004838>.

Visser:2006:MMV

- [VHI06] D. C. Visser, H. C. J. Hoefsloot, and P. D. Iedema. Modelling multi-viscosity systems with dissipative particle dynamics. *Journal of Computational Physics*, 214(2):491–504, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004559>.

Vikhansky:2003:NMI

- [Vik03] A. Vikhansky. A new modification of the immersed boundaries method for fluid-solid flows: moderate Reynolds numbers. *Journal of Computational Physics*, 191(1):328–339, October 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003139>.

Vilmart:2008:RRE

- [Vil08] Gilles Vilmart. Reducing round-off errors in rigid body dynamics. *Journal of Computational Physics*, 227(15):7083–7088, July 20, 2008. CODEN JCTPAH. ISSN 0021-

9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002313>.

Vikhansky:2004:MCM

- [VK04] Alexander Vikhansky and Markus Kraft. A Monte Carlo methods for identification and sensitivity analysis of coagulation processes. *Journal of Computational Physics*, 200 (1):50–59, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001317>.

Vasilyev:2005:AMW

- [VK05a] Oleg V. Vasilyev and Nicholas K.-R. Kevlahan. An adaptive multilevel wavelet collocation method for elliptic problems. *Journal of Computational Physics*, 206(2):412–431, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005200>.

Vikhansky:2005:CMR

- [VK05b] Alexander Vikhansky and Markus Kraft. Conservative method for the reduction of the number of particles in the Monte Carlo simulation method for kinetic equations. *Journal of Computational Physics*, 203(2):371–378, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400395X>.

Vire:2009:DES

- [VK09] A. Viré and B. Knaepen. On discretization errors and subgrid scale model implementations in large eddy simulations. *Journal of Computational Physics*, 228(22):8203–8213, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006554>.

VandenAbeele:2007:ASS

- [VL07] Kris Van den Abeele and Chris Lacor. An accuracy and stability study of the 2D spectral volume method. *Journal of Computational Physics*, 226(1):1007–1026, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002197>.

vanLoon:2006:FSI

- [vLAvdV06] R. van Loon, P. D. Anderson, and F. N. van de Vosse. A fluid-structure interaction method with solid-rigid contact for heart valve dynamics. *Journal of Computational Physics*, 217(2):806–823, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000416>.

Verhaeghe:2009:LBM

- [VLB09] Frederik Verhaeghe, Li-Shi Luo, and Bart Blanpain. Lattice Boltzmann modeling of microchannel flow in slip flow regime. *Journal of Computational Physics*, 228(1):147–157, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004592>.

Venkateswaran:2002:CMM

- [VLKM02] Sankaran Venkateswaran, Jules W. Lindau, Robert F. Kunz, and Charles L. Merkle. Computation of multiphase mixture flows with compressibility effects. *Journal of Computational Physics*, 180(1):54–77, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970622>.

VandenAbeele:2007:CBS

- [VLW07] Kris Van den Abeele, Chris Lacor, and Z. J. Wang. On the connection between the spectral volume and the spectral difference method. *Journal of Computational Physics*, 227(2):877–885, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003889>.

Veeramani:2007:FDF

- [VMN07] C. Veeramani, P. D. Minev, and K. Nandakumar. A fictitious domain formulation for flows with rigid particles: a non-Lagrange multiplier version. *Journal of Computational Physics*, 224(2):867–879, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005523>.

VandeWiele:2008:AFM

- [VOD08] B. Van de Wiele, F. Olyslager, and L. Dupré. Application of the fast multipole method for the evaluation of magneto-static fields in micromagnetic computations. *Journal of Computational Physics*, 227(23):9913–9932, December 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004233>.

Voller:2004:MCS

- [Vol04a] Vaughan R. Voller. A Monte Carlo scheme for tracking filling fronts. *Journal of Computational Physics*, 200(2):399–411, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001731>.

Vollmoller:2004:SCW

- [Vol04b] P. Vollmöller. A shock-capturing wave-propagation method for dry and saturated granular flows. *Journal of Computational Physics*, 199(1):150–174, September 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000804>.

vanOs:2004:SEM

- [vOP04] R. G. M. van Os and T. N. Phillips. Spectral element methods for transient viscoelastic flow problems. *Journal of Computational Physics*, 201(1):286–314, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400230X>.

Voss:2006:IPM

- [Vos06] Heinrich Voss. Iterative projection methods for computing relevant energy states of a quantum dot. *Journal of Computational Physics*, 217(2):824–833, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000428>.

Valle:2000:CAS

- [VP00] R. G. Della Valle and P. Procacci. Computer-aided series expansion for phonon self-energy. *Journal of Compu-*

tational Physics, 165(2):428–436, December 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096618X>.

Valorani:2009:GSF

- [VP09a] M. Valorani and S. Paolucci. The G-Scheme: a framework for multi-scale adaptive model reduction. *Journal of Computational Physics*, 228(13):4665–4701, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001302>.

Volkov:2009:IMF

- [VP09b] Oleg Volkov and Bartosz Protas. An inverse model for a free-boundary problem with a contact line: Steady case. *Journal of Computational Physics*, 228(13):4893–4910, July 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001739>.

Voller:2002:MLN

- [VPA02] V. R. Voller and F. Porté-Agel. Moore’s law and numerical modeling. *Journal of Computational Physics*, 179(2):698–703, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297083X>.

Vaccari:2004:RES

- [VPMC04] A. Vaccari, R. Pontalti, C. Malacarne, and L. Cristoforetti. A robust and efficient subgridding algorithm for finite-difference time-domain simulations of Maxwell’s equations. *Journal of Computational Physics*, 194(1):117–139, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004649>.

Vu-Quoc:2004:ATF

- [VQLZ04] L. Vu-Quoc, L. Lesburg, and X. Zhang. An accurate tangential force-displacement model for granular-flow simulations: Contacting spheres with plastic deformation, force-driven formulation. *Journal of Computational Physics*, 196(1):298–326, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005989>.

Vu-Quoc:2002:GUS

- [VQSZ02] L. Vu-Quoc, V. Srinivas, and Y. Zhai. A generalized unit system for concise electromagnetic formulation and accurate numerical solutions. *Journal of Computational Physics*, 181(2):407–429, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971160>.

Villamizar:2002:TDN

- [VR02] Vianey Villamizar and Otilio Rojas. Time-dependent numerical method with boundary-conforming curvilinear coordinates applied to wave interactions with prototypical antennas. *Journal of Computational Physics*, 177(1):1–36, March 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969876>.

Villamizar:2007:GCC

- [VRM07] Vianey Villamizar, Otilio Rojas, and Joseph Mabey. Generation of curvilinear coordinates on multiply connected regions with boundary singularities. *Journal of Computational Physics*, 223(2):571–588, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004530>.

Vukovic:2002:EWS

- [VS02] Senka Vukovic and Luka Sopta. ENO and WENO schemes with the exact conservation property for one-dimensional shallow water equations. *Journal of Computational Physics*, 179(2):593–621, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970762>.

Vikram:2007:FET

- [VS07] M. Vikram and B. Shanker. Fast evaluation of time domain fields in sub-wavelength source/observer distributions using

accelerated Cartesian expansions (ACE). *Journal of Computational Physics*, 227(2):1007–1023, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003750>.

Valentini:2009:CED

- [VS09] Paolo Valentini and Thomas E. Schwartzentruber. A combined Event-Driven/Time-Driven molecular dynamics algorithm for the simulation of shock waves in rarefied gases. *Journal of Computational Physics*, 228(23):8766–8778, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004690>.

Vijalapura:2005:FSM

- [VSG05] Prashanth K. Vijalapura, John Strain, and Sanjay Govindjee. Fractional step methods for index-1 differential-algebraic equations. *Journal of Computational Physics*, 203(1):305–320, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003298>.

Verwer:2004:RTS

- [VSH04] J. G. Verwer, B. P. Sommeijer, and W. Hundsdorfer. RKC time-stepping for advection-diffusion-reaction problems. *Journal of Computational Physics*, 201(1):61–79, November 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001925>.

Vuik:2001:CPV

- [VSMW01] C. Vuik, A. Segal, J. A. Meijerink, and G. T. Wijma. The construction of projection vectors for a deflated ICCG method applied to problems with extreme contrasts in the coefficients. *Journal of Computational Physics*, 172(2):426–450, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967956>.

Vamos:2003:GRW

- [VSV03] Calin Vamos, Nicolae Suciuc, and Harry Vereecken. Generalized random walk algorithm for the numerical model-

ing of complex diffusion processes. *Journal of Computational Physics*, 186(2):527–544, April 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000731>.

Vidovic:2004:SCF

- [VSW04] D. Vidović, A. Segal, and P. Wesseling. A superlinearly convergent finite volume method for the incompressible Navier–Stokes equations on staggered unstructured grids. *Journal of Computational Physics*, 198(1):159–177, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000233>.

Vidovic:2006:SCM

- [VSW06] D. Vidović, A. Segal, and P. Wesseling. A superlinearly convergent mach-uniform finite volume method for the Euler equations on staggered unstructured grids. *Journal of Computational Physics*, 217(2):277–294, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000301>.

Valentini:2007:HVM

- [VTC⁺07] F. Valentini, P. Trávníček, F. Califano, P. Hellinger, and A. Mangeney. A hybrid-Vlasov model based on the current advance method for the simulation of collisionless magnetized plasma. *Journal of Computational Physics*, 225(1):753–770, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000022>.

Vomel:2008:SAE

- [VTM⁺08] Christof Vömel, Stanimire Z. Tomov, Osni A. Marques, A. Canning, Lin-Wang Wang, and Jack J. Dongarra. State-of-the-art eigensolvers for electronic structure calculations of large scale nano-systems. *Journal of Computational Physics*, 227(15):7113–7124, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000326>.

Vignoli:2008:ASS

- [VTT08] G. Vignoli, V. A. Titarev, and E. F. Toro. ADER schemes for the shallow water equations in channel with irregular bottom elevation. *Journal of Computational Physics*, 227(4):2463–2480, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004779>.

Vomel:2007:UBS

- [VTW⁺07] Christof Vömel, Stanimire Z. Tomov, Lin-Wang Wang, Osni A. Marques, and Jack J. Dongarra. The use of bulk states to accelerate the band edge state calculation of a semiconductor quantum dot. *Journal of Computational Physics*, 223(2):774–782, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004736>.

VanOs:2004:TUV

- [VU04] J. J. A. M. Van Os and R. E. Uittenbogaard. Towards the ultimate variance-conserving convection scheme. *Journal of Computational Physics*, 197(1):197–214, June 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006260>.

Verstappen:2003:SPD

- [VV03] R. W. C. P. Verstappen and A. E. P. Veldman. Symmetry-preserving discretization of turbulent flow. *Journal of Computational Physics*, 187(1):343–368, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001268>.

Valentini:2005:NSI

- [VVM05] Francesco Valentini, Pierluigi Veltri, and André Mangeney. A numerical scheme for the integration of the Vlasov–Poisson system of equations, in the magnetized case. *Journal of Computational Physics*, 210(2):730–751, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002597>.

Varoutis:2008:AIM

- [VVS08] Stelios Varoutis, Dimitris Valougeorgis, and Felix Sharipov. Application of the integro-moment method to steady-state two-dimensional rarefied gas flows subject to boundary induced discontinuities. *Journal of Computational Physics*, 227(12):6272–6287, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001551>.

Van:2002:TDF

- [VW02] Tri Van and Aihua Wood. A time-domain finite element method for Helmholtz equations. *Journal of Computational Physics*, 183(2):486–507, December 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102972049>.

Visher:2004:SHO

- [VWW04] John Visher, Stephen Wandzura, and Amanda White. Stable, high-order discretization for evolution of the wave equation in $1 + 1$ dimensions. *Journal of Computational Physics*, 194(2):395–408, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004881>.

vanZuijlen:2007:HOT

- [vZdBB07] A. H. van Zuijlen, A. de Boer, and H. Bijl. Higher-order time integration through smooth mesh deformation for 3D fluid-structure interaction simulations. *Journal of Computational Physics*, 224(1):414–430, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700143X>.

vanZon:2007:NIE

- [vZS07] Ramses van Zon and Jeremy Schofield. Numerical implementation of the exact dynamics of free rigid bodies. *Journal of Computational Physics*, 225(1):145–164, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600581X>.

Vouvakis:2007:DDA

- [VZSL07] Marinos Vouvakis, Kezhong Zhao, Seung-Mo Seo, and Jin-Fa Lee. A domain decomposition approach for non-conformal couplings between finite and boundary elements for unbounded electromagnetic problems in \mathbf{R}^3 . *Journal of Computational Physics*, 225(1):975–994, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000137>.

Winiecki:2002:FSI

- [WA02] T. Winiecki and C. S. Adams. A fast semi-implicit finite-difference method for the TDGL equations. *Journal of Computational Physics*, 179(1):127–139, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970476>.

White:2008:HOF

- [WA08] Laurent White and Alistair Adcroft. A high-order finite volume remapping scheme for nonuniform grids: The piecewise quartic method (PQM). *Journal of Computational Physics*, 227(15):7394–7422, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002593>.

Waagan:2009:PMH

- [Waa09] K. Waagan. A positive MUSCL–Hancock scheme for ideal magnetohydrodynamics. *Journal of Computational Physics*, 228(23):8609–8626, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004598>.

Wagner:2005:TBN

- [Wag05] Christopher L. Wagner. Theoretical basis for numerically exact three-dimensional time-domain algorithms. *Journal of Computational Physics*, 205(1):343–356, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400470X>.

White:2009:HOR

- [WAH09] Laurent White, Alistair Adcroft, and Robert Hallberg. High-order regridding-remapping schemes for continuous isopycnal and generalized coordinates in ocean models. *Journal of Computational Physics*, 228(23):8665–8692, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004628>.

Walther:2003:IMP

- [Wal03] J. H. Walther. An influence matrix particle-particle particle-mesh algorithm with exact particle-particle correction. *Journal of Computational Physics*, 184(2):670–678, January 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000359>.

Wang:2002:SFVa

- [Wan02] Z. J. Wang. Spectral (finite) volume method for conservation laws on unstructured grids. Basic formulation: Basic formulation. *Journal of Computational Physics*, 178(1):210–251, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970415>.

Wandzura:2004:SHO

- [Wan04a] Stephen Wandzura. Stable, high-order discretization for evolution of the wave equation in $2 + 1$ dimensions. *Journal of Computational Physics*, 199(2):763–775, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001305>.

Wang:2004:VOR

- [Wan04b] Qian Xi Wang. Variable order revised binary tree code. *Journal of Computational Physics*, 200(1):192–210, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001500>.

Wang:2005:UMM

- [Wan05] Q. X. Wang. Unstructured MEL modelling of non-linear unsteady ship waves. *Journal of Computational*

Physics, 210(1):368–385, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500224X>.

Wang:2004:TCF

- [WAO⁺04] Shao-Ping Wang, Mark H. Anderson, Jason G. Oakley, Michael L. Corradini, and Riccardo Bonazza. A thermodynamically consistent and fully conservative treatment of contact discontinuities for compressible multicomponent flows. *Journal of Computational Physics*, 195(2):528–559, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005679>.

Wu:2001:NSS

- [WB01] Lin Wu and D. B. Bogy. Numerical simulation of the slider air bearing problem of hard disk drives by two multidimensional upwind residual distribution schemes over unstructured triangular meshes. *Journal of Computational Physics*, 172(2):640–657, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968469>.

Wang:2009:NAV

- [WB09a] Jin Wang and Greg Baker. A numerical algorithm for viscous incompressible interfacial flows. *Journal of Computational Physics*, 228(15):5470–5489, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002253>.

Witteveen:2009:ERM

- [WB09b] Jeroen A. S. Witteveen and Hester Bijl. Effect of randomness on multi-frequency aeroelastic responses resolved by unsteady adaptive stochastic finite elements. *Journal of Computational Physics*, 228(18):7025–7045, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003374>.

Wagner:2009:QQM

- [WBM09] Lucas K. Wagner, Michal Bajdich, and Lubos Mitas. QWalk: a quantum Monte Carlo program for electronic structure. *Journal of Computational Physics*, 228(9):3390–3404, May 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000424>.

Wang:2001:OWE

- [WC01] Z. J. Wang and R. F. Chen. Optimized weighted essentially nonoscillatory schemes for linear waves with discontinuity. *Journal of Computational Physics*, 174(1):381–404, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969189>.

Werner:2007:SFA

- [WC07] Gregory R. Werner and John R. Cary. A stable FDTD algorithm for non-diagonal, anisotropic dielectrics. *Journal of Computational Physics*, 226(1):1085–1101, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002227>.

Werner:2008:EDM

- [WC08] Gregory R. Werner and John R. Cary. Extracting degenerate modes and frequencies from time-domain simulations with filter-diagonalization. *Journal of Computational Physics*, 227(10):5200–5214, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000739>.

Waterson:2007:DPB

- [WD07] N. P. Waterson and H. Deconinck. Design principles for bounded higher-order convection schemes — a unified approach. *Journal of Computational Physics*, 224(1):182–207, May 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700040X>.

Wangard:2001:NSM

- [WDM01] William Wangard III, David S. Dandy, and Brian J. Miller. A numerically stable method for integration of the multi-component species diffusion equations. *Journal of Computational Physics*, 174(1):460–472, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196930X>.

Wubs:2006:PIO

- [WdND06] Fred W. Wubs, Arie C. de Niet, and Henk A. Dijkstra. The performance of implicit ocean models on B- and C-grids. *Journal of Computational Physics*, 211(1):210–228, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500269X>.

Weijer:2003:FIM

- [WDÖ⁺03] Wilbert Weijer, Henk A. Dijkstra, Hakan Öksüzöğlü, Fred W. Wubs, and Arie C. de Niet. A fully-implicit model of the global ocean circulation. *Journal of Computational Physics*, 192(2):452–470, December 10, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004042>.

Weinbach:2005:RPS

- [WE05] Yael Weinbach and Ron Elber. Revisiting and parallelizing SHAKE. *Journal of Computational Physics*, 209(1):193–206, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001828>.

Weare:2009:PFP

- [Wea09] Jonathan Weare. Particle filtering with path sampling and an application to a bimodal ocean current model. *Journal of Computational Physics*, 228(12):4312–4331, July 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109000801>.

Weekes:2002:SSN

- [Wee02] Suzanne L. Weekes. A stable scheme for the numerical computation of long wave propagation in temporal laminates. *Journal of Computational Physics*, 176(2):345–362, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102969913>.

Welfert:2007:AIA

- [Wel07] B. D. Welfert. Analysis of iterated ADI–FDTD schemes for Maxwell curl equations. *Journal of Computational Physics*, 222(1):9–27, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002336>.

Wen:2006:SSC

- [Wen06] Xin Wen. A steady state capturing and preserving method for computing hyperbolic systems with geometrical source terms having concentrations. *Journal of Computational Physics*, 219(1):322–390, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001677>.

Wen:2007:HON

- [Wen07] Xin Wen. High order numerical methods to a type of delta function integrals. *Journal of Computational Physics*, 226(2):1952–1967, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002719>.

Wen:2009:HON

- [Wen09] Xin Wen. High order numerical methods to two dimensional delta function integrals in level set methods. *Journal of Computational Physics*, 228(11):4273–4290, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001296>.

Wright:2006:SNC

- [WF06] Grady B. Wright and Bengt Fornberg. Scattered node compact finite difference-type formulas generated from radial basis functions. *Journal of Computational Physics*, 212(1):99–123, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003116>.

Wang:2009:IBM

- [WFC09] Zeli Wang, Jianren Fan, and Kefa Cen. Immersed boundary method for the simulation of 2D viscous flow based on vorticity-velocity formulations. *Journal of Computational Physics*, 228(5):1504–1520, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005706>.

Waisman:2005:AGG

- [WFTS05] Haim Waisman, Jacob Fish, Raymond S. Tuminaro, and John N. Shadid. Acceleration of the generalized global basis (GGB) method for nonlinear problems. *Journal of Computational Physics*, 210(1):274–291, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002202>.

Wee:2006:MIK

- [WG06] Daehyun Wee and Ahmed F. Ghoniem. Modified interpolation kernels for treating diffusion and remeshing in vortex methods. *Journal of Computational Physics*, 213(1):239–263, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003797>.

Wallstedt:2008:EET

- [WG08] P. C. Wallstedt and J. E. Guilkey. An evaluation of explicit time integration schemes for use with the generalized interpolation material point method. *Journal of Computational Physics*, 227(22):9628–9642, November 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800394X>.

Wang:2009:ULC

- [WG09] Z. J. Wang and Haiyang Gao. A unifying lifting collocation penalty formulation including the discontinuous Galerkin, spectral volume/difference methods for conservation laws on mixed grids. *Journal of Computational Physics*, 228(21):8161–8186, November 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004239>.

Wang:2001:GSP

- [WGCE01] Xiao-Ping Wang, Carlos J. García-Cervera, and Weinan E. A Gauss–Seidel projection method for micromagnetics simulations. *Journal of Computational Physics*, 171(1):357–372, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967932>.

Welch:2007:APM

- [WGCR07] D. R. Welch, T. C. Genoni, R. E. Clark, and D. V. Rose. Adaptive particle management in a particle-in-cell code. *Journal of Computational Physics*, 227(1):143–155, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003245>.

Winter:2006:MSA

- [WGNT06] C. L. Winter, A. Guadagnini, D. Nychka, and D. M. Tartakovsky. Multivariate sensitivity analysis of saturated flow through simulated highly heterogeneous groundwater aquifers. *Journal of Computational Physics*, 217(1):166–175, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000374>.

Wasberg:2009:VMT

- [WGRA09] Carl Erik Wasberg, Thor Gjesdal, Bjørn Anders Pettersson Reif, and Øyvind Andreassen. Variational multiscale turbulence modelling in a high order spectral element method. *Journal of Computational Physics*, 228(19):7333–7356, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003593>.

Wang:2008:MCM

- [WGS⁺08] Qiqi Wang, David Gleich, Amin Saberi, Nasrollah Etemadi, and Parviz Moin. A Monte Carlo method for solving unsteady adjoint equations. *Journal of Computational Physics*, 227(12):6184–6205, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001393>.

Wang:2006:PAD

- [WGSL06] Zhiqiang Wang, Nasr Ghoniem, Sriram Swaminarayan, and Richard LeSar. A parallel algorithm for 3D dislocation dynamics. *Journal of Computational Physics*, 219(2):608–621, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600194X>.

Wang:2002:ENH

- [WH02] Zhiping Wang and George P. Huang. An essentially nonoscillatory high-order Padé-type (ENO-Padé) scheme. *Journal of Computational Physics*, 177(1):37–58, March 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102969986>.

Wichaidit:2005:PMP

- [WH05] C. Wichaidit and W. N. G. Hitchon. Propagator methods for plasma simulations: application to breakdown. *Journal of Computational Physics*, 203(2):650–667, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003973>.

White:2000:NMO

- [Whi00] Daniel A. White. Numerical modeling of optical gradient traps using the vector finite element method. *Journal of Computational Physics*, 159(1):13–37, March 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964222>.

Wang:2003:NMS

- [WHLL03] Weichung Wang, Tsung-Min Hwang, Wen-Wei Lin, and Jinn-Liang Liu. Numerical methods for semiconductor heterostructures with band nonparabolicity. *Journal of Computational Physics*, 190(1):141–158, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002687>.

Widmer:2008:SAF

- [WHS08] G. Widmer, R. Hiptmair, and Ch. Schwab. Sparse adaptive finite elements for radiative transfer. *Journal of Computational Physics*, 227(12):6071–6105, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001216>.

Willemsen:2000:MPC

- [WHV⁺00] S. M. Willemsen, H. C. J. Hoefsloot, D. C. Visser, P. J. Hamersma, and P. D. Iedema. Modelling phase change with dissipative particle dynamics using a consistent boundary condition. *Journal of Computational Physics*, 162(2):385–394, August 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965434>.

Wiaux:2007:FSS

- [WJV07] Y. Wiaux, L. Jacques, and P. Vandergheynst. Fast spin ± 2 spherical harmonics transforms and application in cosmology. *Journal of Computational Physics*, 226(2):2359–2371, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003191>.

Walther:2001:TDV

- [WK01a] J. H. Walther and P. Koumoutsakos. Three-dimensional vortex methods for particle-laden flows with two-way coupling. *Journal of Computational Physics*, 167(1):39–71, February 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966567>.

Wilhelm:2001:SAD

- [WK01b] D. Wilhelm and L. Kleiser. Stability analysis for different formulations of the nonlinear term in P_N - P_{N-2} spectral element discretizations of the Navier–Stokes equations. *Journal of Computational Physics*, 174(1):306–326, November 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969128>.

Wang:2004:IBE

- [WK04] C. Wang and B. C. Khoo. An indirect boundary element method for three-dimensional explosion bubbles. *Journal of Computational Physics*, 194(2):451–480, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004911>.

Wan:2005:AME

- [WK05] Xiaoliang Wan and George Em Karniadakis. An adaptive multi-element generalized polynomial chaos method for stochastic differential equations. *Journal of Computational Physics*, 209(2):617–642, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001919>.

Wan:2006:SEE

- [WK06] Xiaoliang Wan and George Em Karniadakis. A sharp error estimate for the fast Gauss transform. *Journal of Computational Physics*, 219(1):7–12, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002166>.

Wackers:2007:MSM

- [WK07] Jeroen Wackers and Barry Koren. Multigrid solution method for the steady RANS equations. *Journal of Computational Physics*, 226(2):1784–1807, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002616>.

Witteveen:2007:IFT

- [WKB07] J. A. S. Witteveen, B. Koren, and P. G. Bakker. An improved front tracking method for the Euler equations. *Journal of Computational Physics*, 224(2):712–728, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005468>.

Wells:2006:DGM

- [WKG06] Garth N. Wells, Ellen Kuhl, and Krishna Garikipati. A discontinuous Galerkin method for the Cahn–Hilliard equation. *Journal of Computational Physics*, 218(2):860–877, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001367>.

Wise:2007:SRS

- [WKL07] Steven Wise, Junseok Kim, and John Lowengrub. Solving the regularized, strongly anisotropic Cahn–Hilliard equation by an adaptive nonlinear multigrid method. *Journal of Computational Physics*, 226(1):414–446, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001647>.

Wang:2002:SFBv

- [WL02] Z. J. Wang and Yen Liu. Spectral (finite) volume method for conservation laws on unstructured grids: II. Extension to two-dimensional scalar equation. *Journal of Computational Physics*, 179(2):665–697, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970828>.

Wagner:2003:CAC

- [WL03] Gregory J. Wagner and Wing Kam Liu. Coupling of atomistic and continuum simulations using a bridging scale decomposition. *Journal of Computational Physics*, 190(1):249–274, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002730>.

Wang:2006:ESV

- [WL06] Z. J. Wang and Yen Liu. Extension of the spectral volume method to high-order boundary representation. *Journal of Computational Physics*, 211(1):154–178, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002664>.

Wu:2006:DVC

- [WLC⁺06] J.-S. Wu, Y.-Y. Lian, G. Cheng, R. P. Koomullil, and K.-C. Tseng. Development and verification of a coupled DSMC–NS scheme using unstructured mesh. *Journal of Computational Physics*, 219(2):579–607, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001938>.

Wang:2008:PSC

- [WLC⁺08] Chiaming Wang, Tungyou Lin, Russel Caflisch, Bruce I. Cohen, and Andris M. Dimits. Particle simulation of Coulomb collisions: Comparing the methods of Takizuka & Abe and Nanbu. *Journal of Computational Physics*, 227(9):4308–4329, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005633>.

Wang:2000:EMS

- [WLE⁺00] Hong Wang, Dong Liang, Richard E. Ewing, Stephen L. Lyons, and Guan Qin. An ELLAM–MFEM solution technique for compressible fluid flows in porous media with point sources and sinks. *Journal of Computational Physics*, 159(2):344–376, April 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964507>.

Wang:2007:ELS

- [WLKW07] S. Y. Wang, K. M. Lim, B. C. Khoo, and M. Y. Wang. An extended level set method for shape and topology optimization. *Journal of Computational Physics*, 221(1):395–421, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002968>.

Wang:2008:ECD

- [WLT08] Heyu Wang, Ruo Li, and Tao Tang. Efficient computation of dendritic growth with r -adaptive finite element methods. *Journal of Computational Physics*, 227(12):5984–6000, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001034>.

Wang:2007:ISU

- [WM07] Li Wang and Dimitri J. Mavriplis. Implicit solution of the unsteady Euler equations for high-order accurate discontinuous Galerkin discretizations. *Journal of Computational Physics*, 225(2):1994–2015, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700099X>.

Wang:2009:ABA

- [WM09] Li Wang and Dimitri J. Mavriplis. Adjoint-based h - p adaptive discontinuous Galerkin methods for the 2D compressible Euler equations. *Journal of Computational Physics*, 228(20):7643–7661, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003854>.

Wu:2007:HOP

- [WMH07] Y. Wu, M. F. Modest, and D. C. Haworth. A high-order photon Monte Carlo method for radiative transfer in direct numerical simulation. *Journal of Computational Physics*, 223(2):898–922, May 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004797>.

Wollman:2005:NAV

- [WO05] Stephen Wollman and Ercument Ozizmir. Numerical approximation of the Vlasov–Poisson–Fokker–Planck system in one dimension. *Journal of Computational Physics*, 202(2):602–644, January 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002992>.

Wollman:2009:NAV

- [WO09] Stephen Wollman and Ercument Ozizmir. Numerical approximation of the Vlasov–Poisson–Fokker–Planck system in two dimensions. *Journal of Computational Physics*, 228(18):6629–6669, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002605>.

Wood:2006:AES

- [Woo06] Aihua Wood. Analysis of electromagnetic scattering from an overfilled cavity in the ground plane. *Journal of Computational Physics*, 215(2):630–641, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005085>.

Wang:2009:EPM

- [WP09] Moran Wang and Ning Pan. Elastic property of multiphase composites with random microstructures. *Journal of Computational Physics*, 228(16):5978–5988, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002575>.

Warburton:2000:PSS

- [WPH00] T. Warburton, L. F. Pavarino, and J. S. Hesthaven. A pseudo-spectral scheme for the incompressible Navier–Stokes equations using unstructured nodal elements. *Journal of Computational Physics*, 164(1):1–21, October 10, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965872>.

Wall:2002:SIM

- [WPM02a] Clifton Wall, Charles D. Pierce, and Parviz Moin. A semi-implicit method for resolution of acoustic waves in low Mach number flows. *Journal of Computational Physics*, 181(2):545–563, September 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297141X>.

Waltz:2002:PCT

- [WPM⁺02b] J. Waltz, G. L. Page, S. D. Milder, J. Wallin, and A. Antunes. A performance comparison of tree data structures for N -body simulation. *Journal of Computational Physics*, 178(1):1–14, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969438>.

Wan:2002:DSC

- [WPW02] D. C. Wan, B. S. V. Patnaik, and G. W. Wei. Discrete singular convolution-finite subdomain method for the solution of incompressible viscous flows. *Journal of Computational Physics*, 180(1):229–255, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970890>.

Wimmer:2009:OBT

- [WR09] Michael Wimmer and Klaus Richter. Optimal block-tridiagonalization of matrices for coherent charge transport. *Journal of Computational Physics*, 228(23):8548–8565, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004367>.

Wang:2003:MNS

- [WRu03] Fei Wang and Rizwan-uddin. A modified nodal scheme for the time-dependent, incompressible Navier–Stokes equations. *Journal of Computational Physics*, 187(1):168–196, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000937>.

Wright:2001:EBM

- [WS01] Jeffrey A. Wright and Richard W. Smith. An edge-based method for the incompressible Navier–Stokes equations on polygonal meshes. *Journal of Computational Physics*, 169(1):24–43, May 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967051>.

Wedi:2004:EGC

- [WS04] Nils P. Wedi and Piotr K. Smolarkiewicz. Extending Gal-Chen and somerville terrain-following coordinate transformation on time-dependent curvilinear boundaries. *Journal of Computational Physics*, 193(1):1–20, January 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003942>.

Wu:2009:IVC

- [WS09] J. Wu and C. Shu. Implicit velocity correction-based immersed boundary-lattice Boltzmann method and its applications. *Journal of Computational Physics*, 228(6):1963–1979, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006116>.

Watanabe:2008:FSF

- [WSI08] Yasunori Watanabe, Ayumi Saruwatari, and David M. Ingram. Free-surface flows under impacting droplets. *Journal of Computational Physics*, 227(4):2344–2365, February 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004640>.

Wang:2009:AVC

- [WSTW09] Yu Wang, Songhe Song, Zhijun Tan, and Desheng Wang. Adaptive variational curve smoothing based on level set method. *Journal of Computational Physics*, 228(17):6333–6348, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002770>.

Wang:2009:HOW

- [WSYS09] Wei Wang, Chi-Wang Shu, H. C. Yee, and Björn Sjögreen. High-order well-balanced schemes and applications to non-equilibrium flow. *Journal of Computational Physics*, 228(18):6682–6702, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002836>.

Wan:2007:FBM

- [WT07a] Decheng Wan and Stefan Turek. Fictitious boundary and moving mesh methods for the numerical simulation of rigid particulate flows. *Journal of Computational Physics*, 222(1):28–56, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002725>.

Wang:2007:EAM

- [WT07b] Han Wang and Huazhong Tang. An efficient adaptive mesh redistribution method for a non-linear Dirac equation. *Journal of Computational Physics*, 222(1):176–193, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003500>.

Wang:2008:AGF

- [WTL08] Chunwu Wang, Huazhong Tang, and Tiegang Liu. An adaptive ghost fluid finite volume method for compressible gas-water simulations. *Journal of Computational Physics*, 227(12):6385–6409, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001642>.

Wu:2001:TSM

- [Wu01] Zi-Niu Wu. Transmission of a slowly moving shock across a nonconservative interface. *Journal of Computational Physics*, 171(2):579–615, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196797X>.

Wu:2002:NUC

- [Wu02] Zi-Niu Wu. A note on the unified coordinate system for computing shock waves. *Journal of Computational Physics*, 180(1):110–119, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970786>.

Welch:2000:VFB

- [WW00] Samuel W. J. Welch and John Wilson. A volume of fluid based method for fluid flows with phase change. *Journal of Computational Physics*, 160(2):662–682, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964817>.

Wang:2004:TDA

- [WW04] Desheng Wang and Xiao-Ping Wang. A three-dimensional adaptive method based on the iterative grid redistribution. *Journal of Computational Physics*, 199(2):423–436, September 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000890>.

Wang:2007:RCE

- [WWC07] Moran Wang, Jinku Wang, and Shiyi Chen. Roughness and cavitations effects on electro-osmotic flows in rough microchannels using the lattice Poisson–Boltzmann methods. *Journal of Computational Physics*, 226(1):836–851, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002112>.

Werder:2005:HAC

- [WWK05] Thomas Werder, Jens H. Walther, and Petros Koumoutsakos. Hybrid atomistic-continuum method for the simulation of dense fluid flows. *Journal of Computational Physics*, 205(1):373–390, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004723>.

Wolny:2000:FBD

- [WWVG00] Janusz Wolny, Anna Wnek, and Jean-Louis Verger-Gaugry. Fractal behaviour of diffraction pattern of Thue–Morse sequence. *Journal of Computational Physics*, 163(2):313–327, September 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910096563X>.

Wang:2007:IMS

- [WXG07] Lian-Ping Wang, Yan Xue, and Wojciech W. Grabowski. A bin integral method for solving the kinetic collection equation. *Journal of Computational Physics*, 226(1):59–88, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001428>.

Wang:2009:IPC

- [WYS09] Zhaoyuan Wang, Jianming Yang, and Frederick Stern. An improved particle correction procedure for the particle level set method. *Journal of Computational Physics*, 228(16):5819–5837, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002393>.

Wu:2000:GOI

- [WZ00] Zi-Niu Wu and Hui Zou. Grid overlapping for implicit parallel computation of compressible flows. *Journal of Computational Physics*, 157(1):2–43, January 1, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963039>.

Weiland:2002:MES

- [WZ02] Thomas Weiland and Igor Zagorodnov. Maxwell’s equations for structures with symmetries. *Journal of Computational Physics*, 180(1):297–312, July 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970944>.

Wu:2003:EPM

- [WZ03] Zi-Niu Wu and Hui Zou. Efficient parallel method for implicit upwind schemes approximating the Euler equations in gas dynamics. *Journal of Computational Physics*, 187(2):683–715, May 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001554>.

Wei:2007:VPD

- [WZ07] G. W. Wei and Shan Zhao. On the validity of “A proof that the discrete singular convolution (DSC)/Lagrange-distributed approximation function (LDAF) method is inferior to high order finite differences”. *Journal of Computational Physics*, 226(2):2389–2392, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700246X>. See [Boy06].

Wang:2009:SOC

- [WZ09] Yin Wang and Jun Zhang. Sixth order compact scheme combined with multigrid method and extrapolation technique for 2D Poisson equation. *Journal of Computational Physics*, 228(1):137–146, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004580>.

Wang:2004:SfV

- [WZL04] Z. J. Wang, Laiping Zhang, and Yen Liu. Spectral (finite) volume method for conservation laws on unstructured grids IV: extension to two-dimensional systems. *Journal of Computational Physics*, 194(2):716–741, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005035>.

Wang:2009:CII

- [WZL09a] X. Sheldon Wang, L. T. Zhang, and Wing Kam Liu. On computational issues of immersed finite element methods. *Journal of Computational Physics*, 228(7):2535–2551, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006487>. See erratum [WZL09b].

Wang:2009:ECI

- [WZL09b] X. Sheldon Wang, Lucy T. Zhang, and Wing Kam Liu. Erratum to “On computational issues of immersed finite element methods” [J. Comput. Phys. **228** (2009) 2535–2551]. *Journal of Computational Physics*, 228(18):7125, October 1,

2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003106>. See [WZL09a].

Xiao:2006:UFC

- [XAI06] Feng Xiao, Ryosuke Akoh, and Satoshi Ii. Unified formulation for compressible and incompressible flows by using multi-integrated moments II: Multi-dimensional version for compressible and incompressible flows. *Journal of Computational Physics*, 213(1):31–56, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500358X>.

Xiong:2008:HOF

- [XCRX08] Z. Xiong, R. H. Cohen, T. D. Rognlien, and X. Q. Xu. A high-order finite-volume algorithm for Fokker–Planck collisions in magnetized plasmas. *Journal of Computational Physics*, 227(15):7192–7205, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002052>.

Xiang:2006:ACM

- [XCY06] Yang Xiang, Albert C. S. Chung, and Jian Ye. An active contour model for image segmentation based on elastic interaction. *Journal of Computational Physics*, 219(1):455–476, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001720>.

Xie:2002:EFO

- [XCZ02] Zhongqiang Xie, Chi-Hou Chan, and Bo Zhang. An explicit fourth-order orthogonal curvilinear staggered-grid FDTD method for Maxwell’s equations. *Journal of Computational Physics*, 175(2):739–763, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969657>.

Xue:2007:UBC

- [XD07] Changfeng Xue and Shaozhong Deng. An upwinding boundary condition capturing method for Maxwell's equations in media with material interfaces. *Journal of Computational Physics*, 225(1):342–362, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005948>.

Xie:2009:IAP

- [XDB09] Dexuan Xie, Ranjan K. Dash, and Daniel A. Beard. An improved algorithm and its parallel implementation for solving a general blood-tissue transport and metabolism model. *Journal of Computational Physics*, 228(20):7850–7861, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900415X>.

Xu:2009:ICA

- [XDC09] Zhenli Xu, Shaozhong Deng, and Wei Cai. Image charge approximations of reaction fields in solvents with arbitrary ionic strength. *Journal of Computational Physics*, 228(6):2092–2099, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006189>.

Xu:2009:NST

- [XG09] Liwei Xu and Philippe Guyenne. Numerical simulation of three-dimensional nonlinear water waves. *Journal of Computational Physics*, 228(22):8446–8466, December 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004586>.

Xu:2003:LBM

- [XH03] Kun Xu and Xiaoyi He. Lattice Boltzmann method and gas-kinetic BGK scheme in the low-Mach number viscous flow simulations. *Journal of Computational Physics*, 190(1):100–117, September 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002559>.

Xu:2008:MTK

- [XHC08] Kun Xu, Xin He, and Chunpei Cai. Multiple temperature kinetic model and gas-kinetic method for hypersonic non-equilibrium flow computations. *Journal of Computational Physics*, 227(14):6779–6794, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001824>.

Xu:2007:AAB

- [XHW07] Zhenli Xu, Houde Han, and Xiaonan Wu. Adaptive absorbing boundary conditions for Schrödinger-type equations: Application to nonlinear and multi-dimensional problems. *Journal of Computational Physics*, 225(2):1577–1589, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000691>.

Xiao:2004:UFC

- [Xia04] Feng Xiao. Unified formulation for compressible and incompressible flows by using multi-integrated moments I: one-dimensional inviscid compressible flow. *Journal of Computational Physics*, 195(2):629–654, April 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910300576X>.

Xin:2007:BEF

- [XJ07] Weidong Xin and André H. Juffer. A boundary element formulation of protein electrostatics with explicit ions. *Journal of Computational Physics*, 223(1):416–435, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004463>.

Xiu:2001:SLH

- [XK01] Dongbin Xiu and George Em Karniadakis. A semi-Lagrangian high-order method for Navier–Stokes equations. *Journal of Computational Physics*, 172(2):658–684, September 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968470>.

Xiu:2003:MUF

- [XK03] Dongbin Xiu and George Em Karniadakis. Modeling uncertainty in flow simulations via generalized polynomial chaos. *Journal of Computational Physics*, 187(1):137–167, May 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103000925>.

Xu:2006:LSM

- [XLLZ06] Jian-Jun Xu, Zhilin Li, John Lowengrub, and Hongkai Zhao. A level-set method for interfacial flows with surfactant. *Journal of Computational Physics*, 212(2):590–616, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003475>.

Xia:2007:CPR

- [XLM07] Guoping Xia, Ding Li, and Charles L. Merkle. Consistent properties reconstruction on adaptive Cartesian meshes for complex fluids computations. *Journal of Computational Physics*, 225(1):1175–1197, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000605>.

Xu:2005:CFV

- [XLP05] Xiaofeng Xu, Joon Sang Lee, and Richard H. Pletcher. A compressible finite volume formulation for large eddy simulation of turbulent pipe flows at low Mach number in Cartesian coordinates. *Journal of Computational Physics*, 203(1):22–48, February 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910400316X>.

Xu:2009:HRD

- [XLS09a] Zhiliang Xu, Yingjie Liu, and Chi-Wang Shu. Hierarchical reconstruction for discontinuous Galerkin methods on unstructured grids with a WENO-type linear reconstruction and partial neighboring cells. *Journal of Computational Physics*, 228(6):2194–2212, April 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006256>.

Xu:2009:HRS

- [XLS09b] Zhiliang Xu, Yingjie Liu, and Chi-Wang Shu. Hierarchical reconstruction for spectral volume method on unstructured grids. *Journal of Computational Physics*, 228(16):5787–5802, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900237X>.

Xie:2007:IDD

- [XMP07] Xueying Xie, Lawrence C. Musson, and Matteo Pasquali. An isochoric domain deformation method for computing steady free surface flows with conserved volumes. *Journal of Computational Physics*, 226(1):398–413, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001635>.

Xu:2005:MGK

- [XMT05] Kun Xu, Meiliang Mao, and Lei Tang. A multidimensional gas-kinetic BGK scheme for hypersonic viscous flow. *Journal of Computational Physics*, 203(2):405–421, March 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104003845>.

Xu:2006:NPS

- [XMT06] Ying Xu, J. M. McDonough, and K. A. Tagavi. A numerical procedure for solving 2D phase-field model problems. *Journal of Computational Physics*, 218(2):770–793, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600132X>.

Xiao:2004:CPS

- [XP04a] Feng Xiao and Xindong Peng. A convexity preserving scheme for conservative advection transport. *Journal of Computational Physics*, 198(2):389–402, August 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000385>.

Xu:2004:SSE

- [XP04b] Chuanju Xu and Richard Pasquetti. Stabilized spectral element computations of high Reynolds number incompressible flows. *Journal of Computational Physics*, 196(2):680–704, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006120>.

Xing:2005:HOF

- [XS05a] Yulong Xing and Chi-Wang Shu. High order finite difference WENO schemes with the exact conservation property for the shallow water equations. *Journal of Computational Physics*, 208(1):206–227, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500094X>.

Xu:2005:LDG

- [XS05b] Yan Xu and Chi-Wang Shu. Local discontinuous Galerkin methods for nonlinear schrödinger equations. *Journal of Computational Physics*, 205(1):72–97, May 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004589>.

Xu:2005:ADF

- [XS05c] Zhengfu Xu and Chi-Wang Shu. Anti-diffusive flux corrections for high order finite difference WENO schemes. *Journal of Computational Physics*, 205(2):458–485, May 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104004760>.

Xing:2006:HOW

- [XS06] Yulong Xing and Chi-Wang Shu. High order well-balanced finite volume WENO schemes and discontinuous Galerkin methods for a class of hyperbolic systems with source terms. *Journal of Computational Physics*, 214(2):567–598, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-

2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004626>.

Xiu:2007:PUA

- [XS07] Dongbin Xiu and Spencer J. Sherwin. Parametric uncertainty analysis of pulse wave propagation in a model of a human arterial network. *Journal of Computational Physics*, 226(2):1385–1407, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002392>.

Xiu:2009:ESG

- [XS09] Dongbin Xiu and Jie Shen. Efficient stochastic Galerkin methods for random diffusion equations. *Journal of Computational Physics*, 228(2):266–281, February 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004774>.

Xu:2004:IEM

- [XSG04] M. Xu, F. Stefani, and G. Gerbeth. The integral equation method for a steady kinematic dynamo problem. *Journal of Computational Physics*, 196(1):102–125, May 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005898>.

Xu:2008:IEA

- [XSG08] M. Xu, F. Stefani, and G. Gerbeth. The integral equation approach to kinematic dynamo theory and its application to dynamo experiments in cylindrical geometry. *Journal of Computational Physics*, 227(17):8130–8144, September 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800288X>.

Xu:2009:ASI

- [XSL09] Rui Xu, Peter Stansby, and Dominique Laurence. Accuracy and stability in incompressible SPH (ISPH) based on the projection method and a new approach. *Journal of Computational Physics*, 228(18):6703–6725, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002885>.

Xu:2001:KMH

- [Xu01a] K. Xu. A kinetic method for hyperbolic-elliptic equations and its application in two-phase flow. *Journal of Computational Physics*, 166(2):383–399, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966634>.

Xu:2001:CDI

- [Xu01b] Kun Xu. Comment on “Development of an Improved Gas-Kinetic BGK Scheme for Inviscid and Viscous Flows”. *Journal of Computational Physics*, 171(2):843–847, August 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967117>. See [CKR00, CKR01].

Xu:2001:GKB

- [Xu01c] Kun Xu. A gas-kinetic BGK scheme for the Navier–Stokes equations and its connection with artificial dissipation and Godunov method. *Journal of Computational Physics*, 171(1):289–335, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967907>.

Xu:2002:SUS

- [Xu02a] Kun Xu. A slope-update scheme for compressible flow simulation. *Journal of Computational Physics*, 178(1):252–259, May 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970270>.

Xu:2002:WBG

- [Xu02b] Kun Xu. A well-balanced gas-kinetic scheme for the shallow-water equations with source terms. *Journal of Computational Physics*, 178(2):533–562, May 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970403>.

Xu:2008:IIM

- [Xu08] Sheng Xu. The immersed interface method for simulating prescribed motion of rigid objects in an incompressible viscous flow. *Journal of Computational Physics*, 227(10):5045–5071, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000582>.

Xu:2006:IIM

- [XW06] Sheng Xu and Z. Jane Wang. An immersed interface method for simulating the interaction of a fluid with moving boundaries. *Journal of Computational Physics*, 216(2):454–493, August 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005607>.

Xia:2007:LDG

- [XXS07] Yinhua Xia, Yan Xu, and Chi-Wang Shu. Local discontinuous Galerkin methods for the Cahn–Hilliard type equations. *Journal of Computational Physics*, 227(1):472–491, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003439>.

Xiao:2001:CCO

- [XY01] Feng Xiao and Takashi Yabe. Completely conservative and oscillationless semi-Lagrangian schemes for advection transportation. *Journal of Computational Physics*, 170(2):498–522, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967464>.

Xu:2005:DHP

- [XYK05] Hongyi Xu, Weixing Yuan, and Mahmood Khalid. Design of a high-performance unsteady Navier–Stokes solver using a flexible-cycle additive-correction multigrid technique. *Journal of Computational Physics*, 209(2):504–540, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001816>.

Younes:2005:SAD

- [YA05] A. Younes and P. Ackerer. Solving the advection-diffusion equation with the Eulerian–Lagrangian localized adjoint method on unstructured meshes and non uniform time stepping. *Journal of Computational Physics*, 208(1):384–402, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001178>.

Yamaleev:2001:MTE

- [Yam01] Nail K. Yamaleev. Minimization of the truncation error by grid adaptation. *Journal of Computational Physics*, 170(2):459–497, July 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967452>.

Yamamoto:2005:PMC

- [Yam05] Satoru Yamamoto. Preconditioning method for condensate fluid and solid coupling problems in general curvilinear coordinates. *Journal of Computational Physics*, 207(1):240–260, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000252>.

Yang:2008:IMS

- [Yan08] Jianke Yang. Iteration methods for stability spectra of solitary waves. *Journal of Computational Physics*, 227(14):6862–6876, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800199X>.

Yang:2009:NCG

- [Yan09] Jianke Yang. Newton-conjugate-gradient methods for solitary wave computations. *Journal of Computational Physics*, 228(18):7007–7024, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003362>.

Yang:2008:CFA

- [YAvdB+08] Jiaqi Yang, Aria Abubakar, Peter M. van den Berg, Tarek M. Habashy, and Fernando Reitich. A CG–FFT approach

to the solution of a stress-velocity formulation of three-dimensional elastic scattering problems. *Journal of Computational Physics*, 227(24):10018–10039, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004117>.

Yang:2006:EBF

- [YB06] Jianming Yang and Elias Balaras. An embedded-boundary formulation for large-eddy simulation of turbulent flows interacting with moving boundaries. *Journal of Computational Physics*, 215(1):12–40, June 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004778>.

Yatziv:2006:IFM

- [YBS06] Liron Yatziv, Alberto Bertesaghi, and Guillermo Sapiro. $O(N)$ implementation of the fast marching algorithm. *Journal of Computational Physics*, 212(2):393–399, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003736>.

Ying:2004:KIA

- [YBZ04] Lexing Ying, George Biros, and Denis Zorin. A kernel-independent adaptive fast multipole algorithm in two and three dimensions. *Journal of Computational Physics*, 196(2):591–626, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006090>.

Ying:2006:HOB

- [YBZ06] Lexing Ying, George Biros, and Denis Zorin. A high-order 3D boundary integral equation solver for elliptic PDEs in smooth domains. *Journal of Computational Physics*, 219(1):247–275, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001641>.

Yamaleev:2002:AAG

- [YC02] Nail K. Yamaleev and Mark H. Carpenter. On accuracy of adaptive grid methods for captured shocks. *Journal of Computational Physics*, 181(1):280–316, September 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971251>.

Ying:2006:FGC

- [YC06a] Lexing Ying and Emmanuel J. Candès. Fast geodesics computation with the phase flow method. *Journal of Computational Physics*, 220(1):6–18, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003664>.

Ying:2006:PFM

- [YC06b] Lexing Ying and Emmanuel J. Candès. The phase flow method. *Journal of Computational Physics*, 220(1):184–215, December 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002282>.

Yamaleev:2009:SMC

- [YC09a] Nail K. Yamaleev and Mark H. Carpenter. A systematic methodology for constructing high-order energy stable WENO schemes. *Journal of Computational Physics*, 228(11):4248–4272, June 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109001132>.

Yamaleev:2009:TOE

- [YC09b] Nail K. Yamaleev and Mark H. Carpenter. Third-order energy stable WENO scheme. *Journal of Computational Physics*, 228(8):3025–3047, May 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900014X>.

Young:2005:NMM

- [YCL05] D. L. Young, K. H. Chen, and C. W. Lee. Novel meshless method for solving the potential problems with arbitrary do-

main. *Journal of Computational Physics*, 209(1):290–321, October 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001294>.

Yue:2005:NMM

- [YE05] Xingye Yue and Weinan E. Numerical methods for multiscale transport equations and application to two-phase porous media flow. *Journal of Computational Physics*, 210(2):656–675, December 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002561>.

Yue:2007:LMP

- [YE07] Xingye Yue and Weinan E. The local microscale problem in the multiscale modeling of strongly heterogeneous media: Effects of boundary conditions and cell size. *Journal of Computational Physics*, 222(2):556–572, March 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003676>.

Yeh:2007:SSI

- [Yeh07] Kao-San Yeh. The streamline subgrid integration method: I. Quasi-monotonic second-order transport schemes. *Journal of Computational Physics*, 225(2):1632–1652, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000745>.

Yu:2009:IPB

- [YF09] Zhao Yu and Liang-Shih Fan. An interaction potential based lattice Boltzmann method with adaptive mesh refinement (AMR) for two-phase flow simulation. *Journal of Computational Physics*, 228(17):6456–6478, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002903>.

Yue:2007:ALE

- [YFBH07] Pengtao Yue, James J. Feng, Christopher A. Bertelo, and Howard H. Hu. An arbitrary Lagrangian–Eulerian method

for simulating bubble growth in polymer foaming. *Journal of Computational Physics*, 226(2):2229–2249, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003099>.

Yang:2006:NSJ

- [YFLS06] Xiaofeng Yang, James J. Feng, Chun Liu, and Jie Shen. Numerical simulations of jet pinching-off and drop formation using an energetic variational phase-field method. *Journal of Computational Physics*, 218(1):417–428, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600091X>.

Yevick:2001:CTB

- [YFS01] David Yevick, Tilmann Frieze, and Frank Schmidt. A comparison of transparent boundary conditions for the Fresnel equation. *Journal of Computational Physics*, 168(2):433–444, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967087>.

Yu:2005:DDI

- [YGL05] Huidan Yu, Sharath S. Girimaji, and Li-Shi Luo. DNS and LES of decaying isotropic turbulence with and without frame rotation using lattice Boltzmann method. *Journal of Computational Physics*, 209(2):599–616, November 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001907>.

Ying:2007:KFB

- [YH07a] Wenjun Ying and Craig S. Henriquez. A kernel-free boundary integral method for elliptic boundary value problems. *Journal of Computational Physics*, 227(2):1046–1074, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003774>.

Yvonnet:2007:RMM

- [YH07b] J. Yvonnet and Q.-C. He. The reduced model multi-scale method (R3M) for the non-linear homogenization of

hyperelastic media at finite strains. *Journal of Computational Physics*, 223(1):341–368, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004402>.

Yu:2005:IPS

- [YHCD05] P. Yu, S. Y. Hu, L. Q. Chen, and Q. Du. An iterative-perturbation scheme for treating inhomogeneous elasticity in phase-field models. *Journal of Computational Physics*, 208(1):34–50, September 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000483>.

Yang:2007:HOK

- [YHSX07] Jaw-Yen Yang, Tse-Yang Hsieh, Yu-Hsin Shi, and Kun Xu. High-order kinetic flux vector splitting schemes in general coordinates for ideal quantum gas dynamics. *Journal of Computational Physics*, 227(2):967–982, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003579>.

Ying:2006:KIF

- [Yin06] Lexing Ying. A kernel independent fast multipole algorithm for radial basis functions. *Journal of Computational Physics*, 213(2):451–457, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004298>.

Yang:2006:ARR

- [YJ06] Xiaofeng Yang and Ashley J. James. Analytic relations for reconstructing piecewise linear interfaces in triangular and tetrahedral grids. *Journal of Computational Physics*, 214(1):41–54, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004225>.

Young:2006:MFS

- [YJF⁺06] D. L. Young, S. J. Jane, C. M. Fan, K. Murugesan, and C. C. Tsai. The method of fundamental solutions for 2D and 3D Stokes problems. *Journal of Computational Physics*, 211(1):1–8, January 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500272X>.

Yang:2006:ACL

- [YJL⁺06] Xiaofeng Yang, Ashley J. James, John Lowengrub, Xiaoming Zheng, and Vittorio Cristini. An adaptive coupled level-set/volume-of-fluid interface capturing method for unstructured triangular grids. *Journal of Computational Physics*, 217(2):364–394, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000143>.

Yosibash:2004:CMS

- [YKG04] Z. Yosibash, R. M. Kirby, and D. Gottlieb. Collocation methods for the solution of von-Kármán dynamic non-linear plate systems. *Journal of Computational Physics*, 200(2):432–461, November 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001755>.

Yoon:2008:MDL

- [YKK08] Sung-Hwan Yoon, Chongam Kim, and Kyu-Hong Kim. Multi-dimensional limiting process for three-dimensional flow physics analyses. *Journal of Computational Physics*, 227(12):6001–6043, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001174>.

Yu:2001:SOA

- [YL01] Heng Yu and Yu-Ping Liu. A second-order accurate, component-wise TVD scheme for nonlinear, hyperbolic conservation laws. *Journal of Computational Physics*, 173(1):1–16, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968342>.

Yuan:2008:MPC

- [YLA08] Jianhua Yuan, Ya Yan Lu, and Xavier Antoine. Modeling photonic crystals by boundary integral equations and Dirichlet-to-Neumann maps. *Journal of Computational Physics*, 227(9):4617–4629, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000430>.

Yeckel:2009:ABN

- [YLD09] Andrew Yeckel, Lisa Lun, and Jeffrey J. Derby. An approximate block Newton method for coupled iterations of nonlinear solvers: Theory and conjugate heat transfer applications. *Journal of Computational Physics*, 228(23):8566–8588, December 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004379>.

Yan:2007:NSF

- [YM07] S. Yan and Q. W. Ma. Numerical simulation of fully nonlinear interaction between steep waves and 2D floating bodies using the QALE-FEM method. *Journal of Computational Physics*, 221(2):666–692, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003111>.

Youn:2001:ASO

- [YMF01] S. J. Youn, Wolfgang Mannstadt, and A. J. Freeman. Analytic spin-orbit coupling matrix element formulae in FLAPW calculations. *Journal of Computational Physics*, 172(1):387–391, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968305>.

Yabe:2004:HOS

- [YMT⁺04] Takashi Yabe, Hiroki Mizoe, Kenji Takizawa, Hiroshi Moriki, Hyo-Nam Im, and Youichi Ogata. Higher-order schemes with CIP method and adaptive soroban grid towards mesh-free scheme. *Journal of Computational Physics*, 194(1):57–77, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999103004601>.

Yang:2006:COA

- [YMW06] Chao Yang, Juan C. Meza, and Lin-Wang Wang. A constrained optimization algorithm for total energy minimization in electronic structure calculations. *Journal of Computational Physics*, 217(2):709–721, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000325>.

You:2006:ASA

- [YMW06] Donghyun You, Rajat Mittal, Meng Wang, and Parviz Moin. Analysis of stability and accuracy of finite-difference schemes on a skewed mesh. *Journal of Computational Physics*, 213(1):184–204, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003761>.

Yokoi:2007:EIT

- [Yok07] Kensuke Yokoi. Efficient implementation of THINC scheme: a simple and practical smoothed VOF algorithm. *Journal of Computational Physics*, 226(2):1985–2002, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002732>.

Yoneya:2001:GNI

- [Yon01] Makoto Yoneya. A generalized non-iterative matrix method for constraint molecular dynamics simulations. *Journal of Computational Physics*, 172(1):188–197, September 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968196>.

You:2006:HOP

- [You06] Donghyun You. A high-order Padé ADI method for unsteady convection-diffusion equations. *Journal of Computational Physics*, 214(1):1–11, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999105004638>.

Yefet:2001:SFO

- [YP01] Amir Yefet and Peter G. Petropoulos. A staggered fourth-order accurate explicit finite difference scheme for the time-domain Maxwell's equations. *Journal of Computational Physics*, 168(2):286–315, April 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101966914>.

Yang:2006:SOB

- [YP06] B. Yang and A. Prosperetti. A second-order boundary-fitted projection method for free-surface flow computations. *Journal of Computational Physics*, 213(2):574–590, April 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003931>.

Yuan:2006:DGM

- [YS06] Ling Yuan and Chi-Wang Shu. Discontinuous Galerkin method based on non-polynomial approximation spaces. *Journal of Computational Physics*, 218(1):295–323, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000854>.

Yee:2007:DLD

- [YS07a] H. C. Yee and B. Sjögreen. Development of low dissipative high order filter schemes for multiscale Navier–Stokes/MHD systems. *Journal of Computational Physics*, 225(1):910–934, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000101>.

Yu:2007:DFP

- [YS07b] Zhaosheng Yu and Xueming Shao. A direct-forcing fictitious domain method for particulate flows. *Journal of Computational Physics*, 227(1):292–314, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003348>.

Yuan:2007:AAF

- [YS07c] Guangwei Yuan and Zhiqiang Sheng. Analysis of accuracy of a finite volume scheme for diffusion equations on distorted meshes. *Journal of Computational Physics*, 224(2):1170–1189, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005717>.

Yuan:2008:MFV

- [YS08] Guangwei Yuan and Zhiqiang Sheng. Monotone finite volume schemes for diffusion equations on polygonal meshes. *Journal of Computational Physics*, 227(12):6288–6312, June 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001587>.

Yang:2009:SII

- [YS09] Jianming Yang and Frederick Stern. Sharp interface immersed-boundary/level-set method for wave-body interactions. *Journal of Computational Physics*, 228(17):6590–6616, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003209>.

Ye:2001:FGS

- [YSC01] Tao Ye, Wei Shyy, and Jacob N. Chung. A fixed-grid, sharp-interface method for bubble dynamics and phase change. *Journal of Computational Physics*, 174(2):781–815, December 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969384>.

Yokota:2007:CIT

- [YSO07] R. Yokota, T. K. Sheel, and S. Obi. Calculation of isotropic turbulence using a pure Lagrangian vortex method. *Journal of Computational Physics*, 226(2):1589–1606, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107002501>.

Yu:2005:CQG

- [YSS05] Jiun-Der Yu, Shinri Sakai, and James Sethian. A coupled quadrilateral grid level set projection method ap-

plied to ink jet simulation. *Journal of Computational Physics*, 206(1):227–251, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005108>.

Yu:2007:TPV

- [YSS07] Jiun-Der Yu, Shinri Sakai, and J. A. Sethian. Two-phase viscoelastic jetting. *Journal of Computational Physics*, 220(2):568–585, January 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002506>.

Yu:2006:FDM

- [YSW06] Zhaosheng Yu, Xueming Shao, and Anthony Wachs. A fictitious domain method for particulate flows with heat transfer. *Journal of Computational Physics*, 217(2):424–452, September 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000167>.

Yuan:2007:RSI

- [YT07] Li Yuan and Tao Tang. Resolving the shock-induced combustion by an adaptive mesh redistribution method. *Journal of Computational Physics*, 224(2):587–600, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106004840>.

Yang:2005:SIC

- [YU05a] Yi Yang and H. S. Udaykumar. Sharp interface Cartesian grid method III: Solidification of pure materials and binary solutions. *Journal of Computational Physics*, 210(1):55–74, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002524>.

Yu:2005:DFM

- [Yu05b] Zhaosheng Yu. A DLM/FD method for fluid/flexible-body interactions. *Journal of Computational Physics*, 207(1):1–27, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000148>.

Yuan:2002:CIM

- [Yua02] Li Yuan. Comparison of implicit multigrid schemes for three-dimensional incompressible flows. *Journal of Computational Physics*, 177(1):134–155, March 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102970075>.

Yuste:2006:WAF

- [Yus06] S. B. Yuste. Weighted average finite difference methods for fractional diffusion equations. *Journal of Computational Physics*, 216(1):264–274, July 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005516>.

Yee:2000:ESN

- [YVD00] H. C. Yee, M. Vinokur, and M. J. Djomehri. Entropy splitting and numerical dissipation. *Journal of Computational Physics*, 162(1):33–81, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965173>.

Yu:2007:TDM

- [YW07] Sining Yu and G. W. Wei. Three-dimensional matched interface and boundary (MIB) method for treating geometric singularities. *Journal of Computational Physics*, 227(1):602–632, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910700349X>.

Yang:2007:GAM

- [YWC07] Juekuan Yang, Yajuan Wang, and Yunfei Chen. GPU accelerated molecular dynamics simulation of thermal conductivities. *Journal of Computational Physics*, 221(2):799–804, February 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003172>.

Yokoi:2005:TDN

- [YXLF05] Kensuke Yokoi, Feng Xiao, Hao Liu, and Kazuaki Fukasaku. Three-dimensional numerical simulation of flows with complex geometries in a regular Cartesian grid and its application to blood flow in cerebral artery with multiple aneurysms. *Journal of Computational Physics*, 202(1):1–19, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002657>.

Yabe:2001:CIP

- [YXU01] Takashi Yabe, Feng Xiao, and Takayuki Utsumi. The constrained interpolation profile method for multiphase analysis. *Journal of Computational Physics*, 169(2):556–593, May 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966257>.

Yan:2009:MMS

- [YYF09] Liang Yan, Feng-Lian Yang, and Chu-Li Fu. A meshless method for solving an inverse spacewise-dependent heat source problem. *Journal of Computational Physics*, 228(1):123–136, January 10, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004579>.

Yin:2005:NPS

- [YYT05] Z. Yin, Li Yuan, and Tao Tang. A new parallel strategy for two-dimensional incompressible flow simulations using pseudo-spectral methods. *Journal of Computational Physics*, 210(1):325–341, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002226>.

Yan:2007:LBM

- [YZ07] Y. Y. Yan and Y. Q. Zu. A lattice Boltzmann method for incompressible two-phase flows on partial wetting surface with large density ratio. *Journal of Computational Physics*, 227(1):763–775, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003580>.

Yue:2006:PFS

- [YZF⁺06] Pengtao Yue, Chunfeng Zhou, James J. Feng, Carl F. Ollivier-Gooch, and Howard H. Hu. Phase-field simulations of interfacial dynamics in viscoelastic fluids using finite elements with adaptive meshing. *Journal of Computational Physics*, 219(1):47–67, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001392>.

Yue:2007:SSD

- [YZF07] Pengtao Yue, Chunfeng Zhou, and James J. Feng. Spontaneous shrinkage of drops and mass conservation in phase-field simulations. *Journal of Computational Physics*, 223(1):1–9, April 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005857>.

Yu:2006:UQC

- [YZL⁺06] Y. Yu, M. Zhao, T. Lee, N. Pestieau, W. Bo, J. Glimm, and J. W. Grove. Uncertainty quantification for chaotic computational fluid dynamics. *Journal of Computational Physics*, 217(1):200–216, September 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001732>.

Yang:2009:STD

- [YZLH09] Xiaolei Yang, Xing Zhang, Zhilin Li, and Guo-Wei He. A smoothing technique for discrete delta functions with application to immersed boundary method in moving boundary simulations. *Journal of Computational Physics*, 228(20):7821–7836, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004136>.

Yu:2005:LST

- [YZW05] Sining Yu, Shan Zhao, and G. W. Wei. Local spectral time splitting method for first- and second-order partial differential equations. *Journal of Computational Physics*, 206(2):727–780, July 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print),

1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000136>.

Yu:2007:MIB

- [YZW07] Sining Yu, Yongcheng Zhou, and G. W. Wei. Matched interface and boundary (MIB) method for elliptic problems with sharp-edged interfaces. *Journal of Computational Physics*, 224(2):729–756, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600547X>.

Zadeh:2008:PEF

- [Zad08] Kouroush Sadegh Zadeh. Parameter estimation in flow through partially saturated porous materials. *Journal of Computational Physics*, 227(24):10243–10262, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108004762>.

Zhang:2007:WPF

- [ZB07] G. M. Zhang and R. C. Batra. Wave propagation in functionally graded materials by modified smoothed particle hydrodynamics (MSPH) method. *Journal of Computational Physics*, 222(1):374–390, March 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003573>.

Zhang:2009:RSF

- [ZC09] Dali Zhang and Elena Cherkaev. Reconstruction of spectral function from effective permittivity of a composite material using rational function approximations. *Journal of Computational Physics*, 228(15):5390–5409, August 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002101>.

Zhou:2001:SGM

- [ZCMI01] J. G. Zhou, D. M. Causon, C. G. Mingham, and D. M. Ingram. The surface gradient method for the treatment of source terms in the shallow-water equations. *Journal of*

Computational Physics, 168(1):1–25, March 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966701>.

Zinchenko:2000:EAH

- [ZD00] Alexander Z. Zinchenko and Robert H. Davis. An efficient algorithm for hydrodynamical interaction of many deformable drops. *Journal of Computational Physics*, 157(2):539–587, January 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999199963842>.

Zinchenko:2005:MAA

- [ZD05] Alexander Z. Zinchenko and Robert H. Davis. A multipole-accelerated algorithm for close interaction of slightly deformable drops. *Journal of Computational Physics*, 207(2):695–735, August 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000471>.

Zinchenko:2008:ADN

- [ZD08] Alexander Z. Zinchenko and Robert H. Davis. Algorithm for direct numerical simulation of emulsion flow through a granular material. *Journal of Computational Physics*, 227(16):7841–7888, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002660>.

Zhang:2009:PFM

- [ZDD09] Jian Zhang, Sovan Das, and Qiang Du. A phase field model for vesicle-substrate adhesion. *Journal of Computational Physics*, 228(20):7837–7849, November 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109004148>.

Zingg:2000:CSS

- [ZDNP00] D. W. Zingg, S. De Rango, M. Nemec, and T. H. Pulliam. Comparison of several spatial discretizations for the Navier–Stokes equations. *Journal of Computational*

Physics, 160(2):683–704, May 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100964829>.

Zhang:2006:FTM

- [ZEA06] J. Zhang, D. M. Eckmann, and P. S. Ayyaswamy. A front tracking method for a deformable intravascular bubble in a tube with soluble surfactant transport. *Journal of Computational Physics*, 214(1):366–396, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500450X>.

Zhu:2002:SPS

- [ZF02] Yi Zhu and Patrick J. Fox. Simulation of pore-scale dispersion in periodic porous media using smoothed particle hydrodynamics. *Journal of Computational Physics*, 182(2):622–645, November 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971895>.

Zhao:2008:FMM

- [ZFM08] Hong Zhao, Jonathan B. Freund, and Robert D. Moser. A fixed-mesh method for incompressible flow-structure systems with finite solid deformations. *Journal of Computational Physics*, 227(6):3114–3140, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005116>.

Zabaras:2008:SFS

- [ZG08] N. Zabaras and B. Ganapathysubramanian. A scalable framework for the solution of stochastic inverse problems using a sparse grid collocation approach. *Journal of Computational Physics*, 227(9):4697–4735, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000478>.

Zabusky:2003:LSC

- [ZGG03] N. J. Zabusky, S. Gupta, and Y. Gulak. Localization and spreading of contact discontinuity layers in simula-

tions of compressible dissipationless flows. *Journal of Computational Physics*, 188(2):348–364, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102000451>.

Zahedi:2009:CLS

- [ZGK09] Sara Zahedi, Katarina Gustavsson, and Gunilla Kreiss. A conservative level set method for contact line dynamics. *Journal of Computational Physics*, 228(17):6361–6375, September 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002794>.

Zou:2006:TEA

- [ZGSD06] Jing Zou, Anna Gilbert, Martin Strauss, and Ingrid Daubechies. Theoretical and experimental analysis of a randomized algorithm for Sparse Fourier Transform analysis. *Journal of Computational Physics*, 211(2):572–595, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002883>.

Zabaras:2006:MDS

- [ZGT06] Nicholas Zabaras, Baskar Ganapathysubramanian, and Lijian Tan. Modelling dendritic solidification with melt convection using the extended finite element method. *Journal of Computational Physics*, 218(1):200–227, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106000787>.

Zhao:2001:FTF

- [ZH01] P. Zhao and J. C. Heinrich. Front-tracking finite element method for dendritic solidification. *Journal of Computational Physics*, 173(2):765–796, November 1, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969116>.

Zhang:2004:GMC

- [ZH04] Y. Z. Zhang and D. C. Haworth. A general mass consistency algorithm for hybrid particle/finite-volume PDF methods.

Journal of Computational Physics, 194(1):156–193, February 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103004650>.

Zhao:2009:FWP

- [ZH09] Yan Zhao and Yang Hao. Full-wave parallel dispersive finite-difference time-domain modeling of three-dimensional electromagnetic cloaking structures. *Journal of Computational Physics*, 228(19):7300–7312, October 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910900357X>.

Zhang:2002:MMF

- [Zha02] Jun Zhang. Multigrid method and fourth-order compact scheme for 2D Poisson equation with unequal mesh-size discretization. *Journal of Computational Physics*, 179(1):170–179, June 10, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297049X>.

Zheng:2006:ENB

- [Zhe06] Chunxiong Zheng. Exact nonreflecting boundary conditions for one-dimensional cubic nonlinear Schrödinger equations. *Journal of Computational Physics*, 215(2):552–565, July 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105005048>.

Zheng:2007:PML

- [Zhe07] Chunxiong Zheng. A perfectly matched layer approach to the nonlinear Schrödinger wave equations. *Journal of Computational Physics*, 227(1):537–556, November 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003464>.

Zhong:2007:NHO

- [Zho07] Xiaolin Zhong. A new high-order immersed interface method for solving elliptic equations with imbedded interface of discontinuity. *Journal of Computational Physics*, 225(1):

1066–1099, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000307>.

Zheng:2009:FEV

- [ZHSS09] Haibiao Zheng, Yanren Hou, Feng Shi, and Lina Song. A finite element variational multiscale method for incompressible flows based on two local Gauss integrations. *Journal of Computational Physics*, 228(16):5961–5977, September 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109002460>.

Ziegler:2004:CCT

- [Zie04] U. Ziegler. A central-constrained transport scheme for ideal magnetohydrodynamics. *Journal of Computational Physics*, 196(2):393–416, May 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103006028>.

Zhang:2006:CEA

- [ZIP06] Q. Zhang, K. Ichiki, and A. Prosperetti. On the computation of ensemble averages for spatially non-uniform particle systems. *Journal of Computational Physics*, 212(1):247–267, February 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003190>.

Zhang:2009:HOI

- [ZJ09] Ju Zhang and Thomas L. Jackson. A high-order incompressible flow solver with WENO. *Journal of Computational Physics*, 228(7):2426–2442, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006360>.

Zhang:2008:DNW

- [ZJS08] Shuhai Zhang, Shufen Jiang, and Chi-Wang Shu. Development of nonlinear weighted compact schemes with increasingly higher order accuracy. *Journal of Computational Physics*, 227(15):7294–7321, July 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002295>.

Zhang:2006:NOM

- [ZJW06] Yaoxin Zhang, Yafei Jia, and Sam S. Y. Wang. 2D nearly orthogonal mesh generation with controls on distortion function. *Journal of Computational Physics*, 218(2):549–571, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001185>.

Zhang:2008:BTE

- [ZJWC08] Yaoxin Zhang, Yafei Jia, Sam S. Y. Wang, and H. C. Chan. Boundary treatment for 2D elliptic mesh generation in complex geometries. *Journal of Computational Physics*, 227(16):7977–7997, August 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002878>.

Zhang:2004:ASN

- [ZK04] Z. Zhang and C. Kleinstreuer. Airflow structures and nanoparticle deposition in a human upper airway model. *Journal of Computational Physics*, 198(1):178–210, July 20, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104000245>.

Zhang:2005:LBS

- [ZK05] Junfeng Zhang and Daniel Y. Kwok. A 2D lattice Boltzmann study on electrohydrodynamic drop deformation with the leaky dielectric theory. *Journal of Computational Physics*, 206(1):150–161, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005054>.

Zheng:2006:AAI

- [ZK06] L.-J. Zheng and M. Kotschenreuther. AEGIS: An adaptive ideal-magnetohydrodynamics shooting code for axisymmetric plasma stability. *Journal of Computational Physics*, 211(2):748–766, January 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999105002950>.

Zacharioudaki:2007:DCB

- [ZKDT07] Maria Zacharioudaki, Charalampos Kouris, Yannis Dimakopoulos, and John Tsamopoulos. A direct comparison between volume and surface tracking methods with a boundary-fitted coordinate transformation and third-order upwinding. *Journal of Computational Physics*, 227(2):1428–1469, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107004019>.

Zimmermann:2001:SPT

- [ZKK01] S. Zimmermann, P. Koumoutsakos, and W. Kinzelbach. Simulation of pollutant transport using a particle method. *Journal of Computational Physics*, 173(1):322–347, October 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101968792>.

Zhao:2007:VFM

- [ZKL⁺07] Zhiqin Zhao, Narayan Kovvali, Wenbin Lin, Chang-Hoi Ahn, Luise Couchman, and Lawrence Carin. Volumetric fast multipole method for modeling Schrödinger’s equation. *Journal of Computational Physics*, 224(2):941–955, June 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106005596>.

Zhang:2009:SSF

- [ZKS⁺09] Shuai Zhang, Shigeyuki Kuwabara, Takahito Suzuki, Yoshio Kawano, Koji Morita, and Kenji Fukuda. Simulation of solid-fluid mixture flow using moving particle methods. *Journal of Computational Physics*, 228(7):2552–2565, April 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108006499>.

Zhang:2005:LSM

- [ZKY05] Xiang Kun Zhang, Kie-Chan Kwon, and Sung-Kie Youn. The least-squares meshfree method for the steady incompressible viscous flow. *Journal of Computational*

Physics, 206(1):182–207, June 10, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104005078>.

Zhang:2004:EHO

- [ZL04] Dongxiao Zhang and Zhiming Lu. An efficient, high-order perturbation approach for flow in random porous media via Karhunen–Loève and polynomial expansions. *Journal of Computational Physics*, 194(2):773–794, March 1, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103005072>.

Zhang:2008:NIT

- [ZL08a] Qinghai Zhang and Philip L.-F. Liu. A new interface tracking method: The polygonal area mapping method. *Journal of Computational Physics*, 227(8):4063–4088, April 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005645>.

Zhou:2008:VLS

- [ZL08b] Shiwei Zhou and Qing Li. A variational level set method for the topology optimization of steady-state Navier–Stokes flow. *Journal of Computational Physics*, 227(24):10178–10195, December 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910800449X>.

Zhang:2009:HHC

- [ZL09] Qinghai Zhang and Philip L.-F. Liu. HyPAM: a hybrid continuum-particle model for incompressible free-surface flows. *Journal of Computational Physics*, 228(4):1312–1342, March 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005561>.

Zheng:2005:AUV

- [ZLAC05] Xiaoming Zheng, John Lowengrub, Anthony Anderson, and Vittorio Cristini. Adaptive unstructured volume remeshing — II: Application to two- and three-dimensional level-set simulations of multiphase flow. *Journal of Computa-*

tional Physics, 208(2):626–650, September 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105001233>.

Zhu:2002:SFF

- [ZP02] Luoding Zhu and Charles S. Peskin. Simulation of a flapping flexible filament in a flowing soap film by the immersed boundary method. *Journal of Computational Physics*, 179(2):452–468, July 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910297066X>.

Zhang:2005:SOM

- [ZP05] Z. Zhang and A. Prosperetti. A second-order method for three-dimensional particle simulation. *Journal of Computational Physics*, 210(1):292–324, November 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105002214>.

Zheng:2006:RKC

- [ZP06] Zheming Zheng and Linda Petzold. Runge–Kutta–Chebyshev projection method. *Journal of Computational Physics*, 219(2):976–991, December 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003391>.

Zhu:2009:ARK

- [ZQ09] Hongqiang Zhu and Jianxian Qiu. Adaptive Runge–Kutta discontinuous Galerkin methods using different indicators: One-dimensional case. *Journal of Computational Physics*, 228(18):6957–6976, October 1, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999109003325>.

Zhu:2008:RKD

- [ZQSD08] Jun Zhu, Jianxian Qiu, Chi-Wang Shu, and Michael Dumbser. Runge–Kutta discontinuous Galerkin method using WENO limiters II: Unstructured meshes. *Journal of Computational Physics*, 227(9):4330–4353, April 20, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (elec-

tronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000120>.

Zamzamian:2008:MUI

- [ZR08] Kamiar Zamzamian and Seyed Esmail Razavi. Multidimensional upwinding for incompressible flows based on characteristics. *Journal of Computational Physics*, 227(19):8699–8713, October 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108003409>.

Zwart:2000:IST

- [ZRR00] P. J. Zwart, G. D. Raithby, and M. J. Raw. The integrated space–time finite volume method and its application to moving boundary problems: Volume 154, number 2 (1999), pages 497–519. *Journal of Computational Physics*, 162(1):298, July 20, 2000. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100965549>.

Zheng:2006:CMC

- [ZRS06] Yingsong Zheng, Jason M. Reese, and Henning Struchtrup. Comparing macroscopic continuum models for rarefied gas dynamics: a new test method. *Journal of Computational Physics*, 218(2):748–769, November 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001318>.

Zhuang:2001:HOF

- [ZS01] Yu Zhuang and Xian-He Sun. A high-order fast direct solver for singular Poisson equations. *Journal of Computational Physics*, 171(1):79–94, July 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101967713>.

Sun:2006:SCE

- [zS06] Zhi zhong Sun. The stability and convergence of an explicit difference scheme for the Schrödinger equation on an infinite domain by using artificial boundary conditions. *Journal of Computational Physics*, 219(2):879–898, December 10,

2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106003342>.

Zheng:2008:HMK

- [ZSB⁺08] Zheming Zheng, Ryan M. Stephens, Richard D. Braatz, Richard C. Alkire, and Linda R. Petzold. A hybrid multiscale kinetic Monte Carlo method for simulation of copper electrodeposition. *Journal of Computational Physics*, 227(10):5184–5199, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000727>.

Zheng:2006:LBM

- [ZSC06] H. W. Zheng, C. Shu, and Y. T. Chew. A lattice Boltzmann model for multiphase flows with large density ratio. *Journal of Computational Physics*, 218(1):353–371, October 10, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600088X>.

Zhang:2007:RIL

- [ZSC07] Raoyang Zhang, Ilya Staroselsky, and Hudong Chen. Realization of isotropy of the lattice Boltzmann method via rotation of lattice velocity bases. *Journal of Computational Physics*, 225(2):1262–1270, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000381>.

Zheng:2008:OOQ

- [ZSC08] H. W. Zheng, C. Shu, and Y. T. Chew. An object-oriented and quadrilateral-mesh based solution adaptive algorithm for compressible multi-fluid flows. *Journal of Computational Physics*, 227(14):6895–6921, July 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108002027>.

Zhang:2002:ACP

- [ZSP02] Xing Zhang, David Schmidt, and Blair Perot. Accuracy and conservation properties of a three-dimensional unstructured

staggered mesh scheme for fluid dynamics. *Journal of Computational Physics*, 175(2):764–791, January 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969736>.

Zheng:2008:SEL

- [ZSP08] Zheming Zheng, Bernd Simeon, and Linda Petzold. A stabilized explicit Lagrange multiplier based domain decomposition method for parabolic problems. *Journal of Computational Physics*, 227(10):5272–5285, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000776>.

Zhou:2006:SCF

- [ZSTC06] Yunkai Zhou, Yousef Saad, Murilo L. Tiago, and James R. Chelikowsky. Self-consistent-field calculation using Chebyshev-filtered subspace iteration. *Journal of Computational Physics*, 219(1):172–184, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910600146X>.

Zagorodnov:2003:LTN

- [ZSW03] Igor Zagorodnov, Rolf Schuhmann, and Thomas Weiland. Long-time numerical computation of electromagnetic fields in the vicinity of a relativistic source. *Journal of Computational Physics*, 191(2):525–541, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003292>.

Sun:2006:SCD

- [zSW06] Zhi zhong Sun and Xiaonan Wu. The stability and convergence of a difference scheme for the Schrödinger equation on an infinite domain by using artificial boundary conditions. *Journal of Computational Physics*, 214(1):209–223, May 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105004316>.

Zagorodnov:2007:CFM

- [ZSW07] Igor Zagorodnov, Rolf Schuhmann, and Thomas Weiland. Conformal FDTD-methods to avoid time step reduction with and without cell enlargement. *Journal of Computational Physics*, 225(2):1493–1507, August 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000642>.

Zhang:2003:WEN

- [ZSWW03] Mengping Zhang, Chi-Wang Shu, George C. K. Wong, and S. C. Wong. A weighted essentially non-oscillatory numerical scheme for a multi-class Lighthill–Whitham–Richards traffic flow model. *Journal of Computational Physics*, 191(2):639–659, November 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103003449>.

Zhong:2003:HON

- [ZT03] Xiaolin Zhong and Mahidhar Tatineni. High-order non-uniform grid schemes for numerical simulation of hypersonic boundary-layer stability and transition. *Journal of Computational Physics*, 190(2):419–458, September 20, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002821>.

Zhang:2007:ASD

- [ZT07a] J. M. Zhang and Masa. Tanaka. Adaptive spatial decomposition in fast multipole method. *Journal of Computational Physics*, 226(1):17–28, September 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107001404>.

Zygididis:2007:OTD

- [ZT07b] Theodoros T. Zygididis and Theodoros D. Tsiboukis. Optimized three-dimensional FDTD discretizations of Maxwell's equations on Cartesian grids. *Journal of Computational Physics*, 226(2):2372–2388, October 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic).

URL <http://www.sciencedirect.com/science/article/pii/S0021999107003208>.

Zhu:2005:SFS

- [ZTPM05] Luoding Zhu, Derek Tretheway, Linda Petzold, and Carl Meinhart. Simulation of fluid slip at 3D hydrophobic microchannel walls by the lattice Boltzmann method. *Journal of Computational Physics*, 202(1):181–195, January 1, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104002724>.

Zhao:2002:HRC

- [ZTZ02] Yong Zhao, Hsiang Hui Tan, and Baili Zhang. A high-resolution characteristics-based implicit dual time-stepping VOF method for free surface flow simulation on unstructured grids. *Journal of Computational Physics*, 183(1):233–273, November 20, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102971962>.

Zhao:2003:MDG

- [ZVHP03] P. Zhao, M. Vénere, J. C. Heinrich, and D. R. Poirier. Modeling dendritic growth of a binary alloy. *Journal of Computational Physics*, 188(2):434–461, July 1, 2003. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103001852>.

Zhang:2007:AEP

- [ZVQ07] Xiang Zhang and Loc Vu-Quoc. An accurate elasto-plastic frictional tangential force-displacement model for granular-flow simulations: Displacement-driven formulation. *Journal of Computational Physics*, 225(1):730–752, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106006206>.

Zhou:2003:HRC

- [ZW03] Y. C. Zhou and G. W. Wei. High resolution conjugate filters for the simulation of flows. *Journal of Computational Physics*, 189(1):159–179, July 20, 2003. CO-

DEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999103002067>.

Zhao:2004:HOF

- [ZW04] Shan Zhao and G. W. Wei. High-order FDTD methods via derivative matching for Maxwell's equations with material interfaces. *Journal of Computational Physics*, 200(1):60–103, October 10, 2004. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999104001330>.

Zagorodnov:2005:TTS

- [ZW05] Igor Zagorodnov and Thomas Weiland. TE/TM scheme for computation of electromagnetic fields in accelerators. *Journal of Computational Physics*, 207(1):69–91, July 20, 2005. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105000173>.

Zhou:2006:FDI

- [ZW06] Y. C. Zhou and G. W. Wei. On the fictitious-domain and interpolation formulations of the matched interface and boundary (MIB) method. *Journal of Computational Physics*, 219(1):228–246, November 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106001495>.

Zhang:2002:PMM

- [ZWL02] Lucy T. Zhang, Gregory J. Wagner, and Wing K. Liu. A parallelized meshfree method with boundary enrichment for large-scale CFD. *Journal of Computational Physics*, 176(2):483–506, March 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999102969998>.

Zhang:2006:WEN

- [ZWS06] Peng Zhang, S. C. Wong, and Chi-Wang Shu. A weighted essentially non-oscillatory numerical scheme for a multi-class traffic flow model on an inhomogeneous highway. *Journal of*

Computational Physics, 212(2):739–756, March 1, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003542>.

Zerroukat:2007:APS

- [ZWS07] M. Zerroukat, N. Wood, and A. Staniforth. Application of the parabolic spline method (PSM) to a multi-dimensional conservative semi-Lagrangian transport scheme (SLICE). *Journal of Computational Physics*, 225(1):935–948, July 1, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107000113>.

Zhang:2008:DVD

- [ZXQX08] Zhenyu Zhang, Jianzhong Xu, Zhiguo Qi, and Guang Xi. A discrete velocity direction model for the Boltzmann equation and applications to micro gas flows. *Journal of Computational Physics*, 227(10):5256–5271, May 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108000764>.

Zhang:2002:STC

- [ZYC02] Zeng-Chan Zhang, S. T. John Yu, and Sin-Chung Chang. A space–time conservation element and solution element method for solving the two- and three-dimensional unsteady Euler equations using quadrilateral and hexahedral meshes. *Journal of Computational Physics*, 175(1):168–199, January 1, 2002. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999101969347>.

Zhou:2007:NFH

- [ZYHS07] Qiang Zhou, Zhaohui Yao, Feng He, and M. Y. Shen. A new family of high-order compact upwind difference schemes with good spectral resolution. *Journal of Computational Physics*, 227(2):1306–1339, December 10, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107003956>.

Zhang:2001:JIT

- [ZYKW01] Y. L. Zhang, K. S. Yeo, B. C. Khoo, and C. Wang. 3D jet impact and toroidal bubbles. *Journal of Computational Physics*, 166(2):336–360, January 20, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999100966580>.

Zhang:2006:SME

- [ZYL⁺06] Moujin Zhang, S.-T. John Yu, S.-C. Henry Lin, Sin-Chung Chang, and Isaiah Blankson. Solving the MHD equations by the space–time conservation element and solution element method. *Journal of Computational Physics*, 214(2):599–617, May 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910500464X>.

Zhang:2001:USF

- [ZZ01] Jun Zhang and Jennifer J. Zhao. Unconditionally stable finite difference scheme and iterative solution of 2D microscale heat transport equation. *Journal of Computational Physics*, 170(1):261–275, June 10, 2001. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S002199910196735X>.

Zhang:2007:IDF

- [ZZ07] N. Zhang and Z. C. Zheng. An improved direct-forcing immersed-boundary method for finite difference applications. *Journal of Computational Physics*, 221(1):250–268, January 20, 2007. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999106002877>.

Zhang:2008:ENM

- [ZZ08] Pingwen Zhang and Xinwei Zhang. An efficient numerical method of Landau–Brazovskii model. *Journal of Computational Physics*, 227(11):5859–5870, May 10, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108001198>.

Zhao:2009:NED

- [ZZ09] Haibo Zhao and Chuguang Zheng. A new event-driven constant-volume method for solution of the time evolution of particle size distribution. *Journal of Computational Physics*, 228(5):1412–1428, March 20, 2009. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999108005640>.

Zhou:2006:HOM

- [ZZFW06] Y. C. Zhou, Shan Zhao, Michael Feig, and G. W. Wei. High order matched interface and boundary method for elliptic equations with discontinuous coefficients and singular sources. *Journal of Computational Physics*, 213(1):1–30, March 20, 2006. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999105003578>.

Zhang:2008:MPM

- [ZZVM08] Duan Z. Zhang, Qisu Zou, W. Brian VanderHeyden, and Xia Ma. Material point method applied to multiphase flows. *Journal of Computational Physics*, 227(6):3159–3173, March 1, 2008. CODEN JCTPAH. ISSN 0021-9991 (print), 1090-2716 (electronic). URL <http://www.sciencedirect.com/science/article/pii/S0021999107005165>.