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1 [AAN11, Käm13]. 2 [CK16, DH15a, HMP11, Liu11, Loi13, NS10, RBGS17]. $2k$ [CZZ15]. $2p$ [HZZ19]. 3 [DH15a, GKR13, LOR11, RBGV13]. A [CC14, KLL16]. B [LL15, LO13b]. BDM_1 [BFK16]. C^* [XWG10]. C^0 [BGGyS12, BSZZ13, BGSZ17, BGyS18, DLT13, KS14, Poe19]. C^1 [ABSV16, MM10, Moo16, Wal14a]. C^2 [BMV18, BD19]. C_0 [GG17]. dG [SZ15]. ℓ_1 [Woj12]. ℓ_q [LXY13]. $f \in L^2$ [CK10]. G [BHHN14]. H [CK11, DW12, Sau10, YG15]. $H(\mathrm{curl})$ [GHV18]. $H(div)$ [BMRB19, AC16]. H^1 [BJ19, CFQ18]. H^2 [CLS18]. H_{div} [DHH13]. hp [HLM13, SSW13a, SSW13b, ZW13, ASV15, BHH10, BTG12, LM11b, MPSV18, MBMS11, Sau10, SZ15]. L [CCCS16, Ste13]. L^1 [WSD15, HN11]. L^2 [ANP17, DEM15, DLT13, HS13, LYZ15, TV16, WL16, XZwSW19, ZLY16]. L^∞ [SW19]. L^p [LM14a]. L_1 [YKF18]. L_2 [Ku11b]. λ [Sau10]. M [CFQ18, Mor16, Sch16]. $\mathbf{R}$ [PWZ13]. $\mathbf{R}^s$ [Dic11]. $\mathbf{P}_q$ [JMN14]. $\mathcal{C}^0$ [BN11]. $\mathcal{O}(1/k)$ [HYZ16]. $\mathcal{O}(N)$ [CCCS16]. $N \geq 2$ [ASW10]. $O(1/n)$ [HY12]. p [BBDR12, BCD+11, GB10, HFE18, HMP11, Sau10, YG15]. $p(\cdot)$ [BDS15]. $p(x)$ [DLM13]. $P1$ [WZ12]. P_1 [AC12, KWC10, KWC17]. P_N [ES19, LHM+16]. R^N [ASW10]. $W^{1,\infty}$ [ALS13]. W_p^2 [NZ18].

-Approximations [ES19]. **-Based**

LG19, Lee13, Lee15, LT13, LX14b, LCG+10, Tak13, TL15, WX18, WY11, YZ14, YLH18]. **Domains** [ANP17, BS16a, BGyS18, CdTGGP18, DGHP16, FHM16, GN17, GP16b, GP17, KHCR19, LMV13, LV16a, Liu13b, LO13a, Loi13, MH18, mXqW10, Zul15]. **Dominance** [Peñ07, Xia10]. **Dominated** [AKK14, CQR13a, CSZ19, DH13a, Der12, HL10, LH12]. **Dominating** [Owe19]. **Double** [BMRB19, DLTZ13]. **Double-diffusion** [BMRB19]. **Douglas** [BKSY17, BS15, GHY17, HY12]. **Downwind** [Ket11]. **Downwind-Biased** [Ket11]. **DP** [DGS13, GKR13, KLP10, KRR15, TL15]. **DPG** [CH18a, CDG14, DG11, DH13a, DGNS17, HP14, HK17]. **Drift** [BCCHV14, BG18, NSS19, XCLY19]. **Drift-Diffusion** [BCCHV14, BG18]. **Driven** [ACLW16, DKS16, DHP13]. **Drug** [TW18]. **Drum** [ZB15]. **Dual** [BLO18, BH19, PW12, SL15, WW11b]. **Dual-parametric** [SL15]. **Duality** [CM10, KM12a]. **Dumbbell** [LY12, SY12]. **Dynamic** [BBHJ15, CNSV16, DE11, HVC15]. **Dynamical** [Hül10, KLW16, PM14, WBN17]. **Dynamics** [AVZ15, AN10, CFM11, CCM10, Col10, DK13, DDD+14, EJ17, LCS15, Poe19, ZD12].

Eddy [FT17]. **Edge** [CWZ14, EG13, Wal14a, YZ17, ZW18]. **Effective** [AP18, FKS14, HMKV13, Owe19, WXZ18]. **Effects** [ANS15, BGN16, WY19]. **Efficiency** [DFS19, Pet10, Pet11]. **Efficient** [And13, CK17, CET+16, CGSW13, ESV17, GRT14, GL13, GLT+17, GTW+12, HMO19, Hu15, LZZ18, Liu13b, RBGS17, VH14, ZB15]. **Ehrlich** [SWWW12]. **Eigenfunction** [ZZY13]. **Eigenfunctions** [BDO18, CGL+10]. **Eigenpairs** [XZO19]. **Eigenproblem** [DLT13]. **Eigenvalue** [BSS10, BG19, BD16b, CZAL13, CG12a, CH12, DT17, DLT16, HMO19, KSU14, LO13a, NZ12, Ovt11, Sau10, SLY16, SU12, WX18, WNPN14, YB11, YXL19, ZJB16, ZHZ+14]. **Eigenvalues** [BH11, BV16, BDO18, BMV12, BL18, CDM+17, GMNS19, SV14, SLY16, Sun11]. **Eigenvectors** [CDM+17]. **Eikonal** [FF14, LQB14]. **Einstein** [BDLV17, HMP14]. **Elastance** [RG16]. **Elastic** [BCL17, BGN19, DK14, GHM10, KP12, LY12, SY12]. **Elasticity** [BGN16, BBM13, BDS17b, BMcS10, BCS18, CR12, CH16a, GKR13, GG11, GMR15, Hu15, Kim11, MMR13, Nor15, OHBNX15, QD11, SSS11, SL15]. **Elastodynamics** [AL14]. **Electric** [BHH10]. **Electromagnetic** [CFNP18, CZ17, CH12, Cim12, GHM10, LMS13, YLH18]. **Electromagnetics** [IGVGF19]. **Electronic** [Bac13]. **Electrostatics** [IGVGF19]. **Element** [AP16a, AB17, AAEM15, ALM18, AR10a, AW10a, AABR13, AJ19, ABMV14, ABSV16, ABPV12, ASW10, BCGS10, BC12a, BCE14, BKSY17, BV10, BMS10, BM11, BET11, BCL16, BBDR12, BdSS13, BRY15, Bie11, BPP15, BCG15, BG19, BG14b, BDN13, BD16b, BDO18, BDS15, BRK14, BFK16, BTG12, BOS10, BLO18, BH19, CGS18, CWZ10, CYZ11, CK11, CHZ17, CGOT16, CGM16, CGH+10, CC18, CC19, CKP11, CG12a, CGR12, CPS13, CP15, CH16a, CS18b, CDNP18, CST13, CCL+14, CFNP18, CX10, CW17, CTZ18, CWZ14, CF17, D'A12, DER14, Dem10, DO12, DEM15, DFW15, DKS13, DGS13, DTZ13, DLTZ13, DLT13, DLT16, DAA13, DE13, EJK10, ERW14, Era12, Era13, Erv13, FW13a, FKMP13, Fei19, FH10, FW12a, FLZ17, FR14, FKLL18, GS19, GHM10, GL15, GY16, Gra15, GR16, Gra17]. **Element** [GLR18, GH10, GJOR18, Gud12, GNPY14, GP16a, GP16b, GP17, GN18a,

GB10, GL19, GLZ19, GSV17, GSR17, HLZ15, mHLZ16, HM17, HLM13, HR13, HH10b, HHZ11, HS13, HY18, HHX11, HKL16, IWY10, Ing11, JMN14, JS13, JLZ13, JLPZ14, JLZ16, JN11, KTK17, Kar18, KK10, Kas13, KCDQ15, Kaw19, KP10, Kim11, KSU14, KSS12, KSW14, KLS10, KLM11, KLM14, Krö19, Ku11a, KSS13, KWC10, KWC17, LMV13, LG11, LL11, LOX18, LV16a, LV16b, LV18, LX16, LWD17, LS17, Li18, Li19, LS13b, LLZ15, LYZZ18a, LYYM10, LSZ11, LMM+13, LWZ19, LL13, MC18, MZ13, MNQ13, MMR13, MW12, MNP12, MT13, NW19, NWZ17, OR14, ORX14, OHBNX15, OP12, OS16, ORB16, PW19, QTX15, QD11, Reu13, RW17a, RBGV13, SZ15, Sch11, SS13b, SS14, SU12, SV15, Wal14a, WYZ18, WZ12]. **Element** [WYZ14, WBL+15, Wel11, WW11b, WZ18, YDG10, YB11, YLH18, YG15, YZ17, ZZMC19, ZGD17, Zou18, dFGAN10, CK17]. **Elements** [ABW15, AC12, AC16, AGP17, BKSY17, Bar12, BNS13, BBM13, BCLP10, BBHS14, BMS14c, BMS14b, BS16a, BEF10, BS16b, BHL17, CZ10a, CZ10b, CZ12, CQS12, DDLZ19, FN13, GMM12, GG11, GHSS19, GN18b, Hal16, HH10a, HJHUT14, Hu15, LLMS17, LL11, Lee13, Lee15, Mac10, MPSV18, Sau10, Ste11, VZ19a, WCH10, dVBD+18, dVLV18]. **ELLAM** [WW10b]. **Ellipsoidal** [RY18]. **Elliptic** [ABLV13, ADM+15, ASV15, ABSV11, AX13, AT16, ASW10, AKK14, BCDS17, BLM11, BPS12, Bie11, BDN13, BN11, BGyS18, BLO18, BE18, CZ10a, CFZ15, Cha12, CST13, CX10, Che10, CQR13a, CQR13b, Cim12, CQS12, CZ13, D'A12, DHH13, DS11, DG13, DW13, DL11, DLT13, ELS15, EES18, EST18, FW13b, FO11, Gal17, GHS18, GMNS19, Git13, GL19, GLZ19, HSB17, mHLZ16, HL10, HM16, JP10, Kaw19, KP10, KW14b, KL13, KSW14, KSS13, Kwa12, LH12, LJC17, LLZ15, LCY13, MLMS17, Mas13, MSS17, RW17b, Sau10, SVZ12, SSZ11, SSW13a, SSW13b, SS13b, SYY19, TZ13a, VZ18a, VZ18b, VZ19a, WHlC10, WZ12, WY13, Wan15, YB11, ZZY13, ZGD17]. **Embedded** [FW12b, KMR13, SK13]. **Embedding** [GKN+18]. **Embeddings** [KMU16]. **Empirical** [MMT16]. **Endpoint** [AR14]. **Energy** [AAEM15, BIT13, CHWG15, CLL10, Dem10, ERW14, EJS19, GMS18, KSW18, LW16, MB16, SWWW12, SY15, VL11, WW11a, ZHA19]. **Energy-** [BIT13]. **Energy-Based** [VL11, ZHA19]. **Energy-Conserved** [CHWG15, CLL10]. **Energy-Corrected** [ERW14]. **Energy-Minimization** [AAEM15]. **Energy-Preserving** [LW16, MB16]. **Energy-Stable** [KSW18]. **Engineering** [SS13a]. **Enhanced** [BMcS10, CDM13]. **Enhancement** [LTX13]. **Enhancing** [CCL+14, LR18a]. **Ensemble** [BSW18, CPXZ19, Fio18, GJS17, LW18, SS17a, HLT16]. **Ensemble-Proper** [GJS17]. **Entropy** [BDS12, CFMP13, CK16, FMT12, JP17, KMU16, LY12, LCS15, MM14, SCP18]. **Epitaxial** [LQZ17]. **Epitaxy** [QTX15, SWWW12]. **Equally** [JDZY16]. **Equation** [AP16a, AB17, AM17, ABSV16, ANP17, AT16, AAN11, AGK+11, AGP17, BCE14, BMK10, BGL17, BC12b, BCZ14, BC14, BCJT16, BCST19, BLWW13, BdBE17, BBK15, Bec11, BKS11, BHH10, BJ13, BD17, BC17a, CW19, CHP13, CC14, CLY19, CDM13, CLX13, CH16b, CW17, CHW19, CWYZ19, CLS13, CH18d, CH19, DGHP16, DG11, DGNS17, DLQW18, DEM15, DH11, DH13b, DTV15, DKS11, DW15, DJLQ19, DAA13, DK14, DKR15, EV10, FS14, FLX16, FJ17, FLZ17, FF14, Fis15, FL16, FSX13, FO11, FO13, FKLL18, GS19, Gao14, Gaz14, GHS14, GMS18, GK10, Ham19, Han13, HS14, HN11, HM17, HP14, HMP11, HSW17, HWZ17, HS13, HSZ18, IPP13, IGVGF19, IKS18, JWX14, JW13, JLPZ14, KZ15,

Families [AC16, HMO19]. **Family** [CLP12, Hu15, Zha13a, dVBD+18]. **Fanning** [LCJ+18]. **Far** [GHS14]. **Fast** [AGK+11, BLFS17, BKS11, CFM11, CFH13, CCWX11, CLJ+16, DKP10, JWX14, LL11, LQZ17, LQB14, Mir14, Mir19, PGvD12, Tow15, XZO19, ZX19, GS14]. **Fast-Marching** [Mir14, Mir19]. **Fatemi** [LM13a, WL11]. **FE** [CELR11, GRT14, LS14]. **Fekete** [BDSV10]. **FEM** [BPRR19, BCS18, CR12, DLM13, DFS19, DW15, FFP14, FT17, Gao14, GR19, LS13a, LW19, RW13, SL15, ZW13]. **FEMs** [CGS13a, CL15, GLS14, LS15, WSS14, WS18]. **FETI** [DGS13, GKR13, KLP10, KRR15, TL15]. **FETI-DP** [GKR13, KLP10, TL15]. **Feynman** [DLQW18]. **Fictitious** [KWB15, Tak13]. **Field** [ACD10, ACCD13, AP16b, ARYZ18, BLWW13, BO11, BHH10, CS14, CH12, DKG+14, EJK10, FR16, GHM10, GHS14, Han13, LQT16, SY15, SZZ18, WW11a]. **Field-of-Values** [BO11]. **Fields** [CFNP18, GKN+18, Oh13, PS19]. **Fifth** [Liu13b]. **Film** [NV14, SWWW12]. **Filon** [DGK13]. **Filter** [ELN13, SS17a]. **Filter-Based** [ELN13]. **Filtered** [FO13, LHM+16]. **Filtering** [Sel10, HLT16]. **Filters** [JKLZ17, NP16]. **Finance** [HFL12, WCF19, WR11]. **Financial** [CL18]. **Finding** [GS18, Pet10, Pet11]. **Finite** [AP16a, ACCD13, AP16b, AB17, AAEM15, ALM18, AR10a, AW10a, AABR13, ABW15, AJ19, AC12, And13, ACCE10, ABS12, ABS15, ABPV12, AC16, ASW10, AGP17, BCGS10, BC12a, BCE14, BKSY17, BC12b, BCST19, BV10, Bar12, BMS10, BM11, BET11, BCL16, BBDR12, BBHS14, BdSS13, BRY15, BCCHV14, Bie11, BPP15, BCG15, BG19, BG14b, BDN13, BD16b, BDO18, BDS15, BRK14, BFK16, BOS10, BEF10, BS16b, BHL17, BLO18, BH19, CWZ10, CZ10b, CYZ11, CK11, CHZ17, CGOT16, CMS16, CGH+10, CZZ15, CKP11, CG12a, CGR12, CPS13, CP15, CH16a, CS18b, CDNP18, CK16, CST13, CCL+14, CFNP18, CLL10, CX10, Che10, CLJ+16, CW17, CTZ18, CL18, Cla13, CF17, CM10, CY10, D'A12, DER14, Dem10, DO12, DEM15, DILP18, DFW15, DKS13, DGS13, DTZ13, DLTZ13, DLT13]. **Finite** [DLT16, DAA13, DE13, EJK10, ERW14, Era12, Era13, EP16, Erv13, FW13a, FN13, Fei19, FH10, FW12a, FLZ17, FR14, FO11, FKLL18, GS19, GHM10, GMM12, GL15, GG10a, GY16, GG11, Gra15, GR16, Gra17, GLR18, GH10, GHSS19, GJOR18, Gud12, GNPY14, GP16a, GP16b, GP17, GN18a, GB10, GL19, GLZ19, GSV17, GSR17, GN18b, HH14, HLZ15, mHLZ16, HM17, HR13, HH10b, HHZ11, Hu15, HY18, HHX11, HO14, HKL16, IWY10, Ing11, JMN14, JS13, JLZ13, JLPZ14, JLZ16, JN11, KTK17, Kar18, KK10, Kas13, KCDQ15, Kaw19, KP10, Kim11, KSU14, KB12, KSS12, KSW14, KLS10, KLM11, KLM14, KM12a, Krö19, Ku11a, KST15, KSS13, KWC10, Kwa12, KWC17, KL11, LMV13, LMO12, LLMS17, LG11, LL11, LOX18, LNR11, LV16a, LV16b, LV18, LX16, LWD17, LS17, LZH18, LZZ18]. **Finite** [Li18, LXZ18, Li19, LS13b, LYZ15, LLZ15, LYZZ18a, LLN18, LR12, LYYM10, LSZ11, LMM+13, LWZ19, LL13, MC18, Mac10, MLMS17, MZ13, MNQ13, MMR13, MPSV18, MW12, MNP12, MT13, NW19, NWZ17, Nor15, Nor16, NFM18, OR14, ORX14, OHBNX15, OP12, OS16, ORB16, PW19, QTX15, QD11, Reu13, RW17a, Rid16, RBGV13, RP13, RL15, SS13a, Sau10, SZ15, Sch11, SDKS13, SS13b, SS14, Ste11, SV15, SOG17, Wal14a, WBN16, WYZ18, WL11, WW11a, WZ12, WYZ14, WBL+15, Wan15, WL16, WCH10, Wel11, WW11b, WZ18, YDG10, YB11, YLH18, YG15, ZGD17, Zou18, dFGAN10, CK17]. **Finite-Difference** [CLL10, WL11, WW11a]. **Finite-Element** [AAEM15].

FHM16, Kol14, NKK13, SS13a]. **Fully** [AR10a, AW10b, BCDS17, BKM13, BMW19, BB13, CS14, CM14, CKK19, DG16, DFS17, DCdL18, DE13, FH10, FW12a, FKLL18, HT16, JMO17, LS17, SZ13, WY19]. **Fully-Implicit** [HT16]. **Function** [AKT14, BG14a, BG17, FHW12, GHSS19, HL15, MH18, NZ12, WW10c, Zha17]. **Functional** [BMV12, Gra15, Li10, LL15, LWW+15, MZ14, Mas15a, Mas15b, MT16, WZ19, WSD15]. **Functionally** [LW16]. **Functionals** [GU10a, Hag11]. **Functions** [AR14, BH12, Die14, EST18, Gar15, GG13, GT19b, GL18, GG10b, GK13, HW15, He19, HP14, HSW17, HM14, HJWZ16, Huy10, LM13b, MM13a, MN11, PST15, PWZ13, Spa14, UU16, Ull17, XB13, Xia16, Yam19, ZWX13]. **Fundamental** [TZ13b]. **Further** [BSS10].

Galerkin [AR10a, ADM+15, ASV15, ADM17, ADM21, AH15, BGL17, Bec11, BKT13, BB12, BB13, BY17, BdSS13, BPS12, BPRR19, BJ13, BN10, BFH14, BHX10, BTG12, BTDG13, CYZ11, CGJ13, CNSV16, CZZ14, CSYZ15, CSYZ18, CH16a, CH18b, CC13, CF12, CHYL11, CLX13, CS10, CGLM14, CK14, CKW13, CGS13c, CZ13, DHSW13, DG16, DLM13, DG13, DKG+14, DKGS16, DTV15, DD12, DGM+17, DGS13, DZZ19, ES16, EO14a, EGMP13, EV15, FW14, FLX16, FSX13, GH15, GLS14, GLV11, GMP15, GK10, GR19, HJS13, HMP11, HP15, HK16, HLS13, HZZ19, JP10, JWX14, JLZ16, JN15, KS14, Kaw19, KAD19, KCL13, KHCR19, KS13, LLS18b, LH12, LV16b, LV17, LV18, LMS13, LS13a, LGS14, LS15, LWD17, LYZZ18a, Liu11, LSZ18, Mas13, MZ16, MS11, MNP12, MSZW13, MJRK11, Mir18, MT18]. **Galerkin** [Moo19, MA18, MSS17, MBMS11, MM13b, MAF14, NP16, Ren15, Ren16, RW11, SW19, SPH18, SY12, SS13b, SS14, SU12, TV16, TX19, TD15, VZ18b, WHlC10, WSZ15, WS18, XS12, XH14, XZwSW19, YS13, YG15, ZM16, ZS10a, ZZK15, ZG18, ZDK18, ZHA19, dFGAN10]. **Galerkin-Mixed** [LS13a]. **Galerkin/Strang** [EO14a]. **Game** [CS14]. **Games** [ACD10, ACCD13, AP16b]. **GARK** [San19]. **Gas** [CCM10]. **Gauge** [CH12, WS18]. **Gauss** [BIT13, Che11a, CS12b, CWZ14, PR14, SWG14, Spa14, Wei19, Xia12, XB13, Xu11, YZ17, ZWX13]. **Gauss-Type** [Xia12]. **Gaussian** [ADGP16, CLY19, EST18, FHW12, GH10, Hag11, Zhe14]. **Gaussians** [Bac13]. **Gaver** [Kuz13]. **GC** [FS17]. **Gegenbauer** [Wan16, ZWX13]. **Gel** [FH10]. **General** [ACCE10, BJS13, CGT15, CdTGGP18, DDE15, Gra15, Grü13, Jin11, LMM16, Loi13, MK18, MM13a, OHBNX15, OZ13, Pet10, Pet11, Ste13, WCH10, Wil14, Zul15]. **Generalization** [Kno10]. **Generalized** [CHP10, CFM11, CFH13, CH18c, ER18, GR18, HJWZ16, KCDQ15, MMT16, MNQ13, SG15, mXqW10, ZLB16]. **Generalized-Structure** [SG15]. **Generalizing** [Goc16]. **Generating** [HSW17]. **Generation** [GH12]. **Generator** [FJK13]. **Genetic** [XCLY19]. **Genuinely** [MT11, ZS10b]. **Geodesics** [LCJ+18, MM16]. **Geometric** [JKK+13, KK18a, Krö19, Ney13, PS16, SSW13a, ZJB16]. **Geometrically** [BNP10]. **Geometries** [FKS14, Tak13]. **Geophysics** [CFNP18]. **Gilbert** [GSR17]. **Ginzburg** [BMO11, GLS14, WS18]. **Give** [GSS12]. **Global** [ABBM11, BCGS10, CLP12, DK13, Kol14, LV17, Li18, Poe19, Pot16]. **Globally** [Mor16]. **GMRes** [HDVV10]. **Goal** [BET11, CK11, FPvdZ16, KAD19]. **Goal-Oriented** [CK11, FPvdZ16, KAD19, BET11]. **Godunov** [CS13, Col10, Gos14]. **Good** [MZ14]. **Gordon** [BS19, BCZ14]. **Governed** [CHYL11]. **Grad** [CELR11]. **Grad-Div** [CELR11]. **Graddiv** [DLT16]. **Graded**

CCKW15, DP11, DP13, HMKV13, HPS13, HP15, IGG18, Kay10, KGM11, KMR13, KLP14, Ket19, Li10, LL15, MST11, Röß10, SG15, SwS19, TYK14, XZwSW19, ZS10a, ZFX17, ZSZ15].

L1 [lLLZ18]. **Lag** [HJS19]. **Lagrange** [BB12, BB13, BdSS13, BCG15, CK17, DCdL18, GMM12, GNPY14, GP16a, Loi13, MW12, Tak13, ZCY12]. **Lagrange-Projection-Type** [DCdL18]. **Lagrangian** [AGT18, BO11, CS14, CDM13, CGLY17, FJ17, PKK+15, RSY12, RY18, TX19, WW10a]. **Lagrangian-Based** [AGT18]. **Lanczos** [IKS18, Ye13]. **Landau** [BMO11, GLS14, Gao14, GSR17, WS18]. **Landweber** [Jin15, MRL14]. **Langevin** [AVZ15, HSW17]. **Laplace** [AB17, BDO18, BD19, CDM+17, GT19b, LR15, LR16, LLS13, RN17, Sch16, WCH10]. **Laplacian** [DLM13, BJ19, BCKZ13, BDS15, CW17, CdTGGP18, GMNS19, HFE18, HO14, LO13a, LCG+10, SU12, ZDK18]. **Laplacians** [GJOR18]. **Large** [BH11, Bar13, FW14, GO12, HJS19, JLLO19, LMS13, LAFS16]. **Large-Scale** [JLLO19]. **Larman** [HNSV13]. **Lattice** [AKP14, DGY19, Mir14, TT10]. **Lattices** [ALS13, Käm13, Rat16]. **Lauricella** [DH11, DTV15]. **Lavrentiev** [Pla17]. **Law** [DKS13, YZ17]. **Laws** [ACG15, AHZ18, CS13, CMS16, CWZ14, DG16, DHL17, FMT12, FS16, FLM18, GPS16, GMP15, GU10a, GU10b, Gos14, HLY13, LY11, LAFS16, MZ16, MSZW13, MT11, Ren15, Ren16, SNSM13, Sol18, ZM16, ZS10b, ZS10a, ZH15]. **Layer** [CZ10c, CW13, CZ17, DGHP16, DK14, ES19, EGK13, LW19]. **Layered** [CZ10c]. **Layers** [Kal12]. **Leading** [LM11a]. **Leak** [Kas13]. **Leap** [GLMV16, GRK18]. **Leap-Frog** [GLMV16]. **Leaping** [AHS14b, Rat16]. **Learning** [PM14]. **Least** [ACSW12, ACSW14, BCG+10, BMS14c, BMS14b, Ber18, BPS11, BCS18, CK10, CK11, CP15, CS18b, CGT15, CNBW17, CCL+14, CLS18, HDVV10, Hes15, IKP11, Ku11a, Ku11b, LXY13, LMM+13, Mig19, MS12, ORU18, PST15, SPH18, SSS11, Wan14]. **Least-Squares** [BCG+10, Ber18, BPS11, BCS18, CK11, CS18b, CGT15, CCL+14, CLS18, Ku11a, Ku11b, Mig19, CK10, PST15]. **Leffler** [Gar15, MN11, RD17]. **Legendre** [CHYL11, LMS13, SWG14]. **Lehmann** [Ovt11]. **Leja** [BDSV10]. **Level** [CKW13, Gra17, GLR18, Han13, HMP14, LC15, Reu13, WX18]. **Levels** [AR10a]. **Lévy** [DKS16, DHP13]. **Lie** [AVZ15, OPW19]. **Lifshitz** [GSR17, Gao14]. **Like** [DKS13, MO14, SLY16, ZGD17, LD19]. **Limit** [AAN11, BCZ14, BCJT16, BMR12, BCCHV14, CW19, Car13, CCF14, GK10, HWZ17, JW13, LM10]. **Limited** [BH12, Die14, XB13, Xia16, XA16]. **Limited-Memory** [XA16]. **Linear** [AR10b, AT16, BR15a, BKT13, BBM13, BDdSM13, BDSV10, BMV12, BL18, BGGyS12, BCS18, BC17b, BK10, BEF10, CM18, CZZ14, CC18, CC19, CR12, CH16a, Cha14, CS10, Cim12, CLS13, CBHW13, CvN10, DEM15, DP17, DP12, Gal17, GKR13, GT15, GT16, GG11, GK13, HKLN16, HY13, HL10, Hla14, HP15, HS16, Hu15, HKL16, JLQX14, JML13, JJLW16, Kim11, KB12, KLS10, LM13a, LHM+16, LD19, LH12, lLzSsS10, lLLZ18, LM10, LSZ18, LYZZ18b, MST11, MNP12, Mor16, Nor15, Nov17, OHBNX15, QD11, SW16, Seg10, SSS11, TX19, TYK11, TD13, TYK14, Wan15, WCH10, XZwSW19, YS13, YH16, ZTRK15, ZD10, Zou18, EWK13, NW19, WZ12]. **Linear-Quadratic** [HL10, LH12, SW16]. **Linearized** [BO11, GLS14, Gao14, GU10a, GU10b, LSBTS19, LS14]. **Linearly** [KSW18, PC16]. **Lines** [CCCS16, DG16, DDP17]. **Liouville** [WY11]. **Lipschitz** [CGLY17, CH19, TZ13b].

[AZC14, XA16]. **Mesh** [ABSV11, BNP10, BY12, Era13, GH12, HJHUT14, KH14, KAD19, LA11a, LA11b, VH14]. **Mesh-Independent** [HJHUT14]. **Meshes** [AR10a, ACCE10, ABMV14, ABSV16, BMW19, BCL16, BLM10, BLM11, CC18, CFH13, CK16, CFNP18, CDGQ10, DER14, DO12, DDE15, GLZ19, Hu15, HKL16, Kop15, KM12a, Li18, LYZ15, LL13, MJRK11, OHBNX15, PW19, RW13, SSW13a, SOG17, WW10b, WL16, ZLY16, dVLV18]. **Meshfree** [BSO12, SW12]. **Mesoscale** [TT10]. **Method** [ALS13, AP16a, ACCD13, AP16c, ACEL18, AC10, AD18, AGT18, And13, ABSV16, ABPV12, AHPV13, AW10b, ASW10, BGL17, BCZ14, BC14, BCJT16, BCST19, Bea15, BMS10, BBK15, BG11, BB12, BB13, BY17, BdSS13, Bie11, BPP15, BCG15, BG19, BG14b, BN10, BCM10, BDS17b, BMcS10, BFH14, BBE11, BN11, BGGyS12, BSZZ13, BC17a, BRK14, BFK16, BTG12, BTDG13, Bur12, BHL17, BE18, CGS18, CK10, CW18, CGOT16, CZAL10, CZAL13, CC18, CSYZ18, CFM11, CFH13, CGKMC19, CGR12, CCCS16, CF12, CCD18, CNBW17, CDMP16, CZ10c, CHYL11, CGHW11, CLX13, CW13, CX13, CQR13b, CGLY17, CZ17, CTZ18, CSZ19, CPXZ19, CLP12, CH13, CKW13, CCF14, CQ17, CG17, CG18, Cim12, CDGQ10, CLS13, Col10, CBHW13, CM10, DHH13, DSZ17, DG16, DG11, DH13a, DGNS17, Dem10, DO12, DDE15]. **Method** [DH11, DH13b, DFW15, DGGQ16, DE11, DHS17, DGS13, DLLT18, DZZ19, DLTZ13, DLT13, DLT16, DHP13, DAA13, DE13, ELS15, EES18, EGMP13, Era12, Era13, FW13a, FLL$^+$19, FHM16, FKMP13, Fei19, FW14, FR14, GR15, GHM10, GG13, GLT$^+$17, GHM$^+$18, GR16, GLR18, GH10, GG17, GJOR18, Gud12, GM17, GN18a, GJS17, GB10, GHY17, GL19, GR19, HSW13, HDVV10, HY13, HN11, HY12, mHLZ16, HOV16, HM17, Hes15, HP14, HK17, HLM13, Hla14, HS16, HZZ19, HHX11, HJWZ16, HKL19, IWY10, JMN14, JP10, JWX14, JJLW16, JDZY16, JLZ13, JW13, JLPZ14, JLZ16, JN15, JZ12, KTK17, KK10, KW14a, Kas13, Kaw19, KW16, KPK11, KCL13, KZ15, KHCR19, KM12a, KFJ16, KWC10, KWC17, Kwo11, KL11, LK18, Lau17, LLS13, Lee15, LSBTS19, LOX18, LMS13, LT13, LGS14, LC15, LQT16, LQZ17, LZZ18]. **Method** [LS13b, LYZZ18a, lLNS19, LY12, LM13b, LM14a, LX14b, LYZZ18b, LWZ19, Loi13, LM14b, LX17, LY13, MC18, MMT16, MLMS17, MK18, Mas15a, Mas15b, Mas13, MNQ13, MTKO17, MT18, MA18, MBMS11, MM13b, MAF14, Nic17, NWZ17, NFM18, OR14, ORX14, OBLS14, OHBNX15, PL10, PV16, PC16, Płoı9, Pot17, QTX15, QD11, RL13, RSW17, Ren15, Reu13, RT16, RW17a, RW11, RD17, RP13, RL15, SSZ11, SW12, Seg10, Sel10, SZ13, SWG14, SD19, Sol18, SSS11, SU12, Ste13, SOG17, Tak15, Tak13, Ull17, WW13, WBN16, WW10a, Wan14, WBL$^+$15, WX18, WCF19, Wel11, WCK15, WR11, WY11, WZ18, mXqW10, XH14, XA16, XCLY19, YB11, YS13, YH16, YG15, YZ17, ZM16, ZLL$^+$14, ZS10a, ZG12, ZCY12, ZZY13, ZWGB15, Zha17, ZDK18, ZHA19, ZJB16, ZW11, ZX19, Zul15, CGM16]. **Methods** [AVZ15, ACD10, AR14, ALM18, ADM$^+$15, ANP17, AL14, BD16a, BCE14, BR15a, BC12b, BV10, BM11, BET11, BCL16, BKT13, BCPS12, BS18, BS16a, BPS11, BDN13, BD16b, BS15, BGSZ17, BGyS18, BHX10, BK10, BMRB19, BLO18, BH19, BHHN14, CWZ10, CYZ11, CK11, CHWG15, CHZ17, CGJ13, CNSV16, CZZ14, CZZ15, CSYZ15, CC19, CHP13, Car13, CPS13, CDG14, CP15, CH16a, CDNP18, CGT15, CST13, CCL$^+$14, CET$^+$16, CLL10, CX10, Che10, CCWX11, CG12b, CGSW13, CW17, CH18c, CGLM14, CCKW15, CLS18, CE18, CL18, CWZ14, CQS12, CGS13c, CZ13, CHL12, CY10, DHSW13, DER14, DG13,

DTV15, DP11, DP13, DP17, DGM+17, DP12, DKS11, ERW14, Eng15, EP16, Erv13, EJ17, FS14, FLX16, FJ17, FLZ17, FR16, FR17, GX14, GH15, GL15, GLV11, GLMV16]. **Methods** [GF12, GPV13, GT19a, GKN+18, GRZ15, GMR15, GMS18, GLZ19, GSV17, GSR17, HMKV13, HKLN16, HS15, HMP11, HJJ+13, HP15, HW17, HK16, HLS13, HH10b, HY18, HO14, HKL16, IGVGF19, IKS18, IGG18, JV15, JS13, KS14, KAD19, KGM11, KMR13, KLP14, Ket19, KP10, Kim11, KSU14, KRR15, KSS12, KSW14, KY18, KS13, KSW18, Ku11a, Ku11b, KSS13, Kwa12, LG19, LTT13, LLS18b, Lee13, LH12, LV18, Li10, LL15, LX16, LW16, LN18, Li19, LB13, LB16, LLZ15, Liu11, LMM+13, Liu13b, LSZ18, LCG+10, LQB14, LL13, Mac15, MST11, MW12, MSZW13, Mig19, MB16, MAF19, MN11, MSS17, NA15, NT16, NS10, Nov17, OP12, OZ13, OS13, ORB16, PS19, PW14, PF13, Pet10, Pet11, Pot16, RG16, Rößl0, SV10, SG15, San19, SZ15, SVZ12, SK13]. **Methods** [Sch11, SLY16, SV15, Sun11, TZ13a, TV16, TX19, Tha13, TYK11, TYK14, TD15, VZ18a, VZ18b, VZ19a, Ver12, WBN17, WN18, WYZ18, WHlC10, WL11, Wan15, WSZ15, WL16, Wil14, WR12, WW10c, XQ10, XS12, XZ18, XZwSW19, Ye13, YHX17, Zha13a, ZZK15, ZTRK15, ZLB16, ZFX17, ZSZ15, ZHZ+14, ZH15, dTEJ18, dTEJ19, Jin11]. **MHD** [CK16, LSBTS19]. **Micro** [DSZ17]. **Micro-Macro** [DSZ17]. **Microscale** [TT10]. **Midpoint** [BMS14a]. **Migration** [LZH18]. **Mildly** [Li18]. **Milstein** [LR18a, NHNY17]. **Milstein-Type** [NHNY17]. **Mimetic** [ABLV13, BLM10, BLM11, MLMS17]. **Mindlin** [BCLP10, HH10b, Lee13, Lee15, LMR10]. **Minimal** [AC16, CDNP18, HNSV13, MM16, Mir16]. **Minimization** [AAEM15, Bar12, BC10, GLZ15, LXY13, Woj12]. **Minimum** [BDS12, WYZ18]. **Miscible** [LS13a, RW11, WSS14]. **MITC** [BNS13, BCLP10]. **Mittag** [Gar15, MN11, RD17]. **Mittag-Leffler** [Gar15, MN11, RD17]. **Mixed** [ALM18, ABW15, AHPV13, AX13, AC16, AL14, BCE14, BG11, BS16a, BPS12, BP10, BRK14, BFK16, BLO18, BH19, CGS18, CWZ10, CZ10b, CGOT16, CKP11, CGR12, CDMP16, CW17, CH18c, CGL+10, DHH13, DFW15, DDLZ19, DH15b, EV15, Erv13, FW13a, FLX16, GS19, GHM10, GG11, GSV17, HJJ+13, HJKR16, Hu15, HY18, HHX11, IWY10, KP10, Kim11, KSS12, KPR13, Kwa12, LS13a, Li18, Li19, MMR13, MNP12, Owe19, QTX15, QD11, Sch11, UU16, VV14, WSS14, WS18, ZZLB13]. **Mixtures** [AT16, EJK10]. **Mobility** [RG16]. **Model** [AAEM15, AZC14, AN10, Bar17, Ben17, BOS10, CPS13, CS12a, CLJ+16, EJK10, FH10, FW12a, GHL18, KV10, LM13a, LQZ17, LY12, Luc11, MKW14, NR12, OZ13, PM14, QTX15, RGMP16, RÁM+17, RP13, RSY12, RY18, Sch11, SY12, TW18, WW11b, WY19, You17, Zhe17]. **Model-Dependent** [Ben17]. **Modeling** [BCGS10, CRR16, Fis15, GR15]. **Modelling** [DH15a]. **Models** [AP18, AZC14, CR18, DTZ13, DHL17, DLLT18, GRT14, Grü13, HJKR16, HJS19, JL18, KKN19, KL11, LD19, RT16, SY15, Sin14, TD14, ZD10]. **Modes** [Yi17]. **Modification** [BNP10]. **Modified** [BLWW13, BDdSM13, BdSS13, BFK16, DE11, FR14, HLY13, LY11, MC18, MS14, SSS11, WW11a, YKF18]. **Module** [XWG10]. **Molecular** [QTX15]. **Moment** [Hag11, LHM+16]. **Moments** [Rat16, TT15]. **Momentum** [HM17, KW14a, SSS11]. **Monge** [CHW19, FJ17, FO11, FO13, Ham19, LN18, NZ18]. **Monotone** [Arà13, BCJ19, CH18a, FS16, PL10, RZ19, Wan15]. **Monotonicity** [DHL17]. **Monotonicity-Preserving** [DHL17]. **Monotony** [ACCE10]. **Monte** [GHS18, JML13, MA18, Yam19, AHS14b,

[LY12, LCS15]. **Saturation** [Pla17]. **SAV** [SX18]. **Scalar** [CZ10a, CSYZ18, Cla13, DW13, FLM18, GPS16, Gos14, GNPY14, GP16a, GP17, LXZ18, MZ16, MSZW13, Ren15, Ren16, ZS10b, ZS10a, SX18]. **Scale** [BCGS10, JLLO19, LN18, LSZ11, NP16]. **Scaling** [JLQX14]. **Scattered** [FW12b]. **Scatterers** [KWB15]. **Scattering** [ABIR19, BCL17, BS11, CZ10c, CW13, CZ17, DS18, Hal16, HLM13, LZ17, LMS13, LM11b]. **Scheme** [AP16b, AW10a, ACCE10, BH17, BLWW13, BJK16b, BB13, BCCHV14, BSW18, BdL10, Bré13, BM16, CS14, CC13, CER14, CK16, CR15, CD14, CN17, CHJ19a, CWYZ19, CRR16, Col10, CvN10, CH18d, DCdL18, DS18, DKR15, EJS19, EGHL10, FF14, Gaz14, Gos14, GTW+12, GO12, HH13, HWZ17, JMO17, KST15, LLS16, LLS18a, LZ17, LNR11, LR18a, LZH18, LXZ18, LR18b, LLX19, lLzSsS10, LM10, LCJ+18, MMJ+17, NSS19, PKK+15, RZ19, Rid16, RL17, RSY12, RY18, SS13a, SW19, Svä16, WMI10, WW11a, WL14, WY19, YKF18, ZS10b, nZzSZ12, ZZJ10, Zhe17, DJY14, Kol14, MM14]. **Schemes** [AD18, AF12, ABBM11, ABS12, ABS15, AAN11, AN10, BKM13, BB16, BJK16a, BDS12, BJK10, BCJ19, BSO12, BR13, BEF10, CH18b, CFMP13, CC14, CCCS16, CDM13, Cha14, CS11, CS10, CW16, CGS15, CK14, CKK19, DMP13, DG16, DL11, DJLQ19, DH15b, Ebn14, ES16, ELM15, FKS14, FMT12, FS16, FS11, FO13, GMP15, GG15, Grü13, GHL18, HLY13, HPS13, HSW17, HSZ18, JLQX14, JP17, KPR13, lLMZ19, LYZ15, LAFS16, Liu13a, LCS15, MM10, MZ16, MT11, Moo16, NR12, PS16, Rat16, Rie14, RU13, RSSZ17, SS17b, SDKS13, SWWW12, SY15, SX18, SDM18a, SDM18b, SZZ18, TD14, TT10, Wal10, WBN16, WW10b, WXZ18, Wu18, YB11, nZzSwW11, dTEJ18]. **Schrödinger** [AAN11, BC12b, BC14, BCST19, BDLV17, CEM13, Car13, CH16b, CH12, CH18d, DGNS17, IPP13, IKS18, JW13, KK18b, KOS19, LZZ18, lLzSsS10, Liu13a, MC18, NS10, Tha13, YZ14, Zhe14]. **Schwarz** [BCPS12, CKW13, CG17, CG18, DW13, GX14, GH15, GPV13, HJS13, HH14, JMN14, KZ15, Kwo11, LC15, LK16, Loi13, Oh13, XQ10]. **Schwoebel** [SWWW12]. **Scott** [CELR11]. **SDE** [Yam19]. **SDEs** [AVZ14, DKS16, DF12, LL19, TZ13b]. **SDFEM** [ZLY16]. **SDG** [CQ17]. **SE** [PS16]. **Search** [GLZ15, LO17, ZD12]. **Second** [AH15, ASW10, AGP17, BGL17, BLWW13, BB12, BB13, BdSS13, BORM18, BFK16, CFZ15, CGT15, Che10, CGSW13, CWYZ19, CQS12, CZ13, DZZ19, DLT13, DK14, ELS15, FW13b, Fio18, FS16, GLMV16, GSS12, GNPY14, GP17, Ham19, HS16, KL11, LZZ18, MNP12, OTB18, SSW13a, SSW13b, Seg10, SWWW12, WZ12]. **Second-Order** [AH15, AGP17, BFK16, CFZ15, CGT15, CGSW13, CQS12, DZZ19, DLT13, FS16, GNPY14, GP17, HS16, LZZ18, OTB18, SSW13a, KL11, SWWW12]. **Sections** [LR12]. **Seepage** [AD18]. **Seidel** [HNSV13]. **Selection** [AABR13, IKP11, LQZ17, LCS15]. **Self** [HS15, IPP13]. **Self-Adjoint** [HS15, IPP13]. **Sell** [Hül10]. **Semi** [BDN18, CS14, CDM13, CCKW15, FJ17, GPS16, LQT16, MM14, PKK+15, Rie14, RSY12, RY18]. **Semi-discretization** [GPS16]. **Semi-Explicit** [MM14]. **Semi-Implicit** [BDN18, CCKW15, LQT16, Rie14]. **Semi-Lagrangian** [CS14, CDM13, FJ17, PKK+15, RSY12, RY18]. **Semialgebraic** [ZF16]. **Semiclassical** [AAN11, Car13, CLY19, JW13, YZ14]. **Semidiscrete** [CHJ19a, Gaz14, JLZ13, Kar18, LSZ18, MM16, XS12, FS14]. **Semidiscretization** [CH16b]. **Semidiscretizations** [CHJ19b, KTK17]. **Semigroup** [Dör12, MTKO17]. **Semigroups** [GG10b, GG17, OS13]. **Semilinear** [AMK19, ACLW16, Gau15,

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