

# A Complete Bibliography of Publications in *Mathematics of Computation*, 1980–1989

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## Title word cross-reference

**#10999** [Bla82]. **#1291** [Pex81, Tem81, vK83a].  
**#27887a** [AD88]. **#3506** [Fet81c]. **#361**  
[Sal84, SL85]. **#4049** [Fet82a]. **#4774** [Sal81].  
**#484** [Sha82b]. **#4914** [Lon83, Smi83]. **#5375**  
[Kni88]. **#5542** [GS80]. **#5546** [Bri82]. **#5952**  
[Car80, Fet81e, Fet82a]. **#6725** [Fet81b]. **#7119**  
[Che83]. **#7933** [Kel82b]. **#8017** [Bac80]. **#8606**  
[vK83b]. **#A256** [Dav82].

$(1+2x)\exp(x^2)\operatorname{erfc} x$  [SL81].  $(a,b) \leftarrow (\frac{a+3b}{4}, \frac{\sqrt{ab}+b}{2})$   
[BB89]. 0 [LMv86]. 0, 1 [Kal82].  $0 \leq x < \infty$  [SL81].  
1 [GL82, LMv86, LC88, Set80].  
 $1+2^a = 3^b 5^c + 2^d 3^e 5^f$  [Ale85].  $10^1 0$   
[te 86b, te 86a]. 11 [ACHv80]. 19 [SF85, SS86b].  
 $1 < n < 7$  [NB89]. 2 [CL83, GL85, LS89]. 2000 000  
[SF85]. 21 [MPR81]. 25 [NN80].  $25 \cdot 10^9$  [PSW80].  
26 [NN80]. 284 457 [SS86b].  $2^m \pm \text{and} 1$  [Bri82].  
 $2^{n-2} \equiv 1 \pmod{n}$  [Rot84].  $2^{n-k} \equiv 1 \pmod{n}$  [She86].

$2 * 3 * 5 * \cdots * p + 1$  [Tem80].  $2 \cdot 3 \cdot 5 \cdots p \pm 1$   
[BCP82, Kel83a]. 3  
[Bea86a, BGZ85, DF81, Hag83, Kis83]. 32 [Rus89].  
 $3 \cdot 2^n + 1$  [Kel82b]. 42 [AD88].  $50 \cdot 10^9$  [KSW86]. 9  
[SS86b].  ${}_3F_2(1)$  [Lav87].  $A$  [CR82, Sha81].  $A(\alpha)$   
[Sha82a].  $A5^n - 1$  [Wil87].  $A7^n - 1$  [Wil87].  
 $A^4 + B^4 + C^4 = D^4$  [Elk88].  $A^4 + B^4 = C^4 + D^4$   
[Zaj83].  $\alpha$  [Coh84].  $Ax = \lambda Bx$  [McC81a].  $B$   
[DM83, LA82, LA84].  $BN$  [Pia81].  $\coth$  [Lin86].  
 $D < 10^7$  [LQ88b].  $D^{1/2}$  [EL89].  $\Delta u = u - u^3$   
[Lun80].  $e$  [Bai88b].  $e^{-x}$  [Und86].  $F_{17}$  [Gos80].  $F_7$   
[Bac80].  $\Gamma$  [BB82].  $GL(n, \mathbf{Z})$   
[PP80a, PP80b, PP80c].  $h$  [Mos81].  $H^{-1}$  [Nak84].  
 $I_0(\xi)$  [Las82b].  $I_e$  [Oku83].  
 $\int_0^1 t^{-1} \log^{n-1} t \log^p(1-t) dt$  [Köl82].  
 $\int_0^\infty e^{-\mu t} t^{\nu-1} \log^m t dt$  [Köl83b].  
 $\int_0^p u^n e^{-u^2} (u+x)^{-1} du$  [NV82].  $\int_0^{\pi/2} J_0^2(\gamma \sin x) dx$   
[SF87].  $\int_0^{\pi/2} J_\nu^2(\lambda \cos \theta) d\theta$  [Won88].  
 $\int_0^{\pi/2} \log^n \cos x \log^p \sin x dx$  [Köl83a].  $J_0(x)$   
[WBR82].  $J_1(x)$  [WBR82].  $J_n(z)$  [CM83].  $k! + 1$



[Tem80].  $K$  [Lue89, Jae83, Jae85].  $k \cdot 2^m + 1$  [CW80, Kel82c].  $k \cdot 2^n + 1$  [BCW81, BCW82, Kel82a, Kel83b, Jae83, Jae85].  $Kf = g$  [Lue89].  $Ki_n(x)$  [Bla82].  $L$  [Rot82].  $L^2$  [Jia87].  $L^\infty$  [Jia87, Gol80, BD80].  $L_1$  [SH80].  $L_2$  [CT87b].  $L_2[0, 1]$  [Cho82].  $L_\infty$  [SW82a, Sch80a, SH80].  $L_p$  [CT87b, Las86].  $\lambda$  [EM87].  $\log(e^x e^y)$  [NT87].  $LU$  [Cha85, Elm86, JT81, Cha84].  $M$  [Col82, AJS83, HP84].  $M_{12}$  [BR88].  $M_{22}$  [Mal88].  $\mathbb{Q}$  [Mal88].  $\mathbf{Q}(\sqrt{2} + \sqrt{2})$  [CD86].  $\mathbf{Q}(\sqrt{3} + \sqrt{2})$  [CD86].  $\mathbf{Q}(\sqrt[3]{D})$  [Wil81b, Wil82b].  $\mathbf{Q}(\sqrt{D})$  [Wil82b].  $GL_6(2)$  [Dar86].  $SL(3, \mathbf{Z})$  [GGT87].  $\text{sn}(x, k)$  [Fra81b, Wri81a, Wri81b].  $n! \pm 1$  [BCP82, Kel83a].  $N$  [Col82, Mur82, Lag83, NB89].  $n - 1$  [Lag83].  $N = 13$  [Tro85].  $n = 8$  [PP80b].  $O(n^{1/10.89})$  [AL81].  $\text{Aut}(M_{22})$  [Mal88].  $\text{lcm}$  [Mor89, Mor90].  $\text{mod } p$  [Hud84, Sch85c].  $\text{PSL}_3(\mathbb{F}_4) \cdot 2_2$  [Mal88].  $\overset{\circ}{H}$  [Wah84, SW82a].  $P$  [Ana87, BS88a, CL83, Dea85, Jam80, SS89, Wag80].  $p + 1$  [Wil82a].  $p^6$  [Jam80].  $p_r(n)$  [Cos82].  $\pi$  [Bai88a, Bai88b, BB86, NS84].  $\pi(x)$  [LMO85].  $\pi(x) - \text{li}(x)$  [te 87].  $\psi(x) - \theta(x)$  [Per85, Per87].  $\psi(x; 3, l)$  [McC84a].  $\psi(z)$  [McC81b].  $Q$  [Rot82, ST87].  $Q(\sqrt{3})$  [CD88].  $Q(\sqrt{dp})$  [CL83].  $Q(\sqrt{m})$  [Vau85a].  $R_{1031}$  [WD86].  $R^2$  [Mae86].  $R^3$  [Gir88].  $S$  [DM82a].  $\Sigma(k)$  [Bra83].  $SL_2(\mathbf{Z})$  [FMPT84].  $\sqrt{D}$  [Wil81a].  $\sum X_i = \prod X_i$  [Bro84b].  $T$  [Sid80a, Mar80a].  $\tanh$  [Lin86].  $\theta(x; 3, l)$  [McC84a].  $u^2 + 5v^2 = m$  [Wil80a].  $u_t = \nu u_{xx} + u(1 - u)$  [Puc89].  $W_p^1$  [CT87b].  $x^3 + y^3 + z^3 = 3$  [Cas85].  $x^n + y^n + z^n = 3$  [SB84].  $xy + k$  [Bro85].  $y' = Ay + B(t)y \cdot c(t)$  [Gek82].  $y^2 - k = x^3$  [Ste86a].  $Y^2 = X(X^2 + p)$  [BC84].  $y^2 = x^3 - 7x + 10$  [BT83].  $Y_0(x)$  [WBR82].  $Y_1(x)$  [WBR82].

**-abundant** [Coh84]. **-adic** [Dea85]. **-boundedness** [Jia87]. **-clusters** [NB89]. **-connected** [DF81]. **-convergence** [BD80]. **-D** [Bea86a, LC88]. **-dimensional** [AJS83]. **-Distribution** [Mar80a]. **-divisibility** [Wag80]. **-Factorizations** [Cha84, Cha85]. **-function** [Oku83]. **-functions** [BB82]. **-Galerkin** [Nak84]. **-invariant** [EM87]. **-Invariants** [CL83]. **-norm**

[EL89]. **-Projection** [CT87b, SW82a]. **-projections** [Jia87]. **-range** [Mos81]. **-regular** [HP84]. **-splines** [DM83, LA82, LA84]. **-stability** [CR82]. **-Stable** [Sha81, Ana87, DM82a, Sha82a]. **-superlinear** [ST87]. **-transformation** [Sid80a]. **-version** [BS88a, SS89].

**01021a** [Ano88b].

**1** [KP88]. **10** [Fet84b]. **15** [Fet81d, KP88, vK83f]. **16** [vK83c, vK83d, vK83e, vK83g]. **16th** [Sal81]. **1933** [Sal80]. **1983** [GW84]. **19th** [Sal81].

**2** [DNW88, Mah80]. **2-D** [DNW88, Mah80]. **23** [Dav82]. **26** [Sal84, SL85]. **27** [Fet82a]. **29** [Bac80, Bri82, GS80, Lon83, Smi83].

**3** [LQ88a]. **3-D** [Bea86b]. **3-Sylow** [LQ88a]. **30** [AD88, Kel82b]. **32** [Bla82, Sha82b]. **33** [Car80, Fet81e, Fet82a, Kel82a, Kro80, Ske86a]. **34** [Fra81a, vK83b]. **35** [Kel82c]. **36** [Fet82b, Had82]. **37** [BCW82, Mei85]. **38** [Kel83a, Pex81, Tem81, vK83a]. **39** [LA84, te 86c].

**40** [Fai84, Fet81b, Jae85, Vau84]. **41** [Has86, Rab85, Rab88b, te 86d]. **42** [Cha85]. **43** [Fet81c]. **44** [Gra87a, Hea86, Per87]. **45** [Lew87, Wil88]. **47** [HH88b]. **48** [Zag88].

**50** [Kni88]. **50th** [Gau94]. **51** [Bac80]. **52** [Bri82, GS80, Mor90]. **53** [Kel82b, Stu81a]. **54** [Fet82a]. **56** [Che83]. **57** [Bla82]. **58** [AD88, Sal81, Sha82b].

**6** [Phi87]. **65009** [Fet82b]. **69-0172** [Fet81b].

**80f** [Kro80]. **80h** [Kel82a]. **80j** [Ske86a]. **81f** [Fra81a]. **81g** [Kru83, Sol86, vK82]. **81i** [Kel82c]. **81k** [II89]. **82a** [Fet82b]. **82c** [Had82]. **82g** [Phi87]. **83b** [Mei85]. **83c** [Kel83a]. **83i** [LA84]. **83m** [te 86c]. **84c** [Fai84]. **84e** [Vau84]. **84i** [Rab85, Rab88b]. **84k** [Jae85]. **84m** [Has86]. **85e** [te 86d]. **85i** [Cha85]. **86b** [Hea86]. **86k** [Per87]. **86m** [Lew87, Wil88]. **87a** [Gra87a]. **87g** [HH88b]. **87k** [Zag88]. **88m** [Ano88b].



**A.** [II89]. **A.-P.** [II89]. **Abel** [Egg89, Lub83, Lub85]. **Abelian** [Set80, van82a]. **absolutely** [DW89]. **Absorbing** [Hal82, Hig86a, Hig87, TH86]. **Abstract** [Kea87, Las86]. **Abundance** [BH86]. **abundant** [Coh84]. **Academic** [Ano88b, Car80, Che83, Fet81e, Fet82a, Kru83, Sol86, vK82]. **Accelerated** [Hug86, AH81, Had82, HH88b, Mar80c]. **accelerating** [AJS83, Lev80]. **Acceleration** [Bre82b, Kel86, Saa84, GL82]. **accelerators** [SF82]. **Accuracy** [JS85, Mon85a, BM82b, Eri85c, GL85, Sch80b]. **Accurate** [Gar84, HH88a, MNP84, BDK82, BSC81, DK85, HTE81, OS86b, San88, Sch83a]. **adapted** [Eri85c]. **Adaptive** [VB81c, EJ88, MT86, OO84]. **Addendum** [Fra81a, Zag88]. **addition** [McC86]. **Additive** [CS80a, CS83a, LO83]. **ADI** [HV89]. **adic** [Dea85]. **Admitting** [För87]. **advanced** [Gre82]. **Advection** [Pas80, Hal86]. **Aerospace** [Fet81b]. **ahead** [PTL85]. **Air** [Fet81b]. **Aitken** [MP85]. **Algebraic** [Boy85a, Boy85b, BE88b, Smy84, AD88, BE88a, Bru82, BW88, BW89, Eas86, GN88, Ger83a, KLL88, LP86, Rhe84, Sid80b, Smy81, Toi86, Vau83, Vau84, Vau85b]. **Algorithm** [AL81, Bai88a, Ger88, GM84, HJ81, HW84, PSS82, Sto80, Yan87, BF89a, BC82b, CZ81, Cas80, DL88b, EK89, Fie81, FM85, For81, Gar88a, Ger83c, Gla87, Gre82, Hil82, JF87, Kiw85, Las82a, Leo80, Mar80b, McC83, Mit83a, PTL85, SL84, Sey87, Sim84, Spe86, Tan88, WW87, Wun83, Wun85]. **Algorithmic** [Wil80a, Mon81]. **Algorithms** [BP88a, BB86, BP87, MNSS89, Mos81, SS85, van88, BPX88, BM80, Bul80, Kim88, McC86, New85, Stu81b]. **aliquot** [GS80]. **almost** [Kis81]. **alternating** [Phi80]. **alternative** [McC83]. **Always** [Bro85]. **amalgamated** [Sto81]. **Amicable** [Bor81, BH86, te 84, te 86a, te 86b, BB88]. **analogue** [WD84]. **Analysis** [AK81, BOP80, BR82, Ben84a, Ben84b, BR85, Dem88, Gar88b, II89, JP82, KL85, Pai80, PS83, Sid80a, Ste84b, Tha81, BSC81, BHK84, BPX88, Cyb83, Elm86, EN87, FP85, FO82, Gal83, IIMPL81, JP86, OS86a, Sal81, Wei84b, Wun83, Ziv82, Stu81a]. **Analytical** [Mas83]. **Anderson** [Kin83]. **anharmonic** [IIMPL81]. **Anisotropic** [DMG89b]. **Anniversary** [Gau94]. **antiautomorphisms** [WWL81]. **any** [Lag83]. **AOR** [Mar81, Pap83]. **Apollonian** [Boy82a]. **Application** [CD87, GM85b, Ioa85a, PdW86, de 86, Ell83, GM85a, Ger83a, Gir87, HTN83, Has86, Rei85, SWW83, Spe86, dW85a]. **Applications** [II89, PP80b, Ril83, BJVZ89, Cyb83, Mah80]. **Applied** [Tro80, Hac80, LeV86, Sar87]. **Approach** [Ste84b, VB81c, CMSY83, SN83]. **Approximants** [NZ82, Und86]. **Approximate** [Lev83, Sch86, JS81, Kim88, NV88, Vér82]. **approximating** [Mon88, Tsu86]. **Approximation** [BF86, CQ82, CH84, Cho82, DLR81, DW83, Egg84, JE82, Kea83, KG85b, MORR81, MW86c, Sha84, SL81, WF82, ADT81, AG83, BO89, BDK82, Bre89b, Dea85, DRS85, DW81, DS80b, Ell83, EGL80, FM86, FCM88, Gar84, Gev84, GR81, KG85a, LV89, Lue89, Mil87, Mit83b, Neu87, Pie88, Rei85, SB89, SS86a, Ste86b, SN83, VB81b, dS80a, dS81a]. **approximation-theoretic** [VB81b]. **Approximations** [Bal84a, Ben83, BE88b, DD86a, DD86b, Hea85, Ise82, IN83, Mic87, Mik89, MS87, New84, BD80, BDK83, Bal84b, Bla82, BP88b, BP88c, BE88a, CM80, CL84b, CTW89, Dur87, DNW88, EO80, EO81, FG88, GT81, GT85, GT87, HLR88, Hea86, Hig86a, HS85, JF87, JLTW87, Las86, Mic83, Nas87, OS83, OHW85, OT88, Pen81, RS82, SJI85, Tad83, Tan88, WBR82]. **arbitrarily** [For88]. **Arbitrary** [Met86, AG83]. **arc** [BS88b]. **argument** [Lew85b, Lew87]. **arise** [GT84]. **Arising** [Que81, NS84]. **Arithmetic** [FP84a, Gor87, GW85a, Man84, Pri83, Wil80b, GW85b, Gra87a, Hud85, McC84b, Pri85, Rot82, Stu81b]. **Arithmetic-Harmonic** [FP84a]. **ARL** [Fet81b]. **Artificial** [Hal86]. **Aspects** [SW86a]. **assisted** [BBG86, Vrs86]. **Associated** [Bau86a, Lac84, Bau86b, DiD82, Lew86, MPR81, SW82b, Vrs86]. **Asymptotic** [AW83, BLL87, BL88, Che82, GV87, HK87, IL88, SW82b, Sta81, Ste84c, SF87, Won88, Boy81, Eli86, FW85, HC81, Mei85, SW85, Und86, WM81]. **Asymptotically** [Dix81]. **asymptotics** [Tem86]. **attenuation** [Loc81]. **attractors** [HLR88]. **August** [Gau94]. **author** [Bla82, Bri82, Had82]. **Automatic** [Del81, HTN83, Has86]. **automorphism** [SS88]. **Avdelas** [Had82]. **average** [MZ88]. **Averages** [Mar82b]. **Averaging**



[Hud85]. **away** [Lay81]. **Axiomatization** [Man84].

**Babuska** [Pit80]. **Backtrack** [BC82b]. **Backward** [BE88a, BE88b, BPST89, Eld82a, Eld82b, LP86]. **Badii** [Kni88]. **Baillie** [Kel82a]. **Band** [DMS84]. **Banded** [BP88a]. **Base** [Fet81b, Leh81, Leo80]. **Based** [Sha81, LO83, Nie83, Sha82a, SSO83]. **Bases** [GS89, LS87, Ste88]. **basic** [Sch80b]. **basin** [DLR81]. **basis** [Por85, VB81a]. **Beckers** [Shi84]. **Behavior** [Ste84c, Gal83, Gau83, Tad84a]. **Bell** [How80]. **Below** [te 86a, te 86b, Zag82]. **bending** [Pie88]. **Berlin** [Fet84b]. **Bernoulli** [HP84, TW87, Wag80]. **Bertrand** [Ioa85a]. **Berwick** [Tza86]. **Bessel** [Ben83, Cha82a, CM83, CS80b, Gla81, Las82b, LW82, New84, Pie84, Tem86, TW80, WBR82]. **Best** [Cho82, Sha84, Dea85, Net80]. **best-possible** [Net80]. **between** [BF89a, Leh88b, Odl87]. **Bi** [IN87, KBF87]. **Bi-cyclide** [KBF87]. **Bi-Orthogonality** [IN87]. **Bickley** [Bla82]. **bifurcation** [BB85a, Mit83a]. **biharmonic** [Mon88]. **Binary** [PdW86, de 86, JS87a]. **Binomial** [Goe88, Hud84]. **Birch** [BGZ85]. **Birkhoff** [Bör89, Dyn84]. **Bisection** [Adl83, Kea87, Sty80]. **bits** [KLL88]. **Bivariate** [CH89, DL88a, AEM87]. **Björck** [Kin83]. **Block** [BP88a, Cas83a, Cas83b, Pap83, RW84, Mak80, Mak81]. **block-by-block** [Mak80, Mak81]. **Blurred** [Swa89b, Swa89a]. **bodies** [Dja81]. **Bois** [Dav82]. **Book** [Tha81, Ano88b]. **Borders** [Swa89b, Swa89a]. **Borweins** [Bai88a]. **Boston** [Ano88b]. **Bound** [BN82a, BC89a, BC89b, EKS88, Kea87, Par83, Cha82a, Let86, TW89, Zag82]. **boundaries** [Tre85]. **Boundary** [AV85a, AV85b, Ben84a, Ben84b, Gar87a, Gir88, GR89b, MW86b, McI86a, McI86b, Mic87, Slo83, Arn83, BS88a, BSC<sup>+</sup>80, BL88, CT87a, CS87b, DL81, Dut89, ET84, EN87, Fai84, FG88, Gar87b, Gar88c, GT81, GT85, GT87, Gui87, HK87, HH88a, Hal82, Hal86, Hig86a, Hig87, HV89, II89, JN80, Kat80, KFD83, Las86, LeV86, Lun86, MW86a, MR83a, Mat87, McL86, Mic83, Mun81, NV88, OS86a, OO84, Sch86, Shu87a, SS89, Tad83, TH86, Wei84a, Wei86, Wei84b, Win81]. **bounded** [LS86, TL85]. **boundedness** [Jia87]. **Bounds** [Olv88, BBG82, CGT88, HS85, JS85, MNR89,

Mie80, Ral83, TW83]. **Box** [DL88a, Wei84b]. **Brasil** [II89]. **Breakpoints** [Cho82]. **Breeding** [BH86]. **Brent** [te 86c, New85]. **Brillhart** [Bac80]. **British** [Gau94]. **Buhler** [Kel83a]. **Bur** [Smi83]. **Burgers** [Rob89]. **Byrd** [Fet81c].

**C** [Bla82, Fai84, Fet81b, Kel82c, Sha82b]. **Calculating** [MT80, FP85, Wil80c]. **Calculation** [FW84, HHR<sup>+</sup>87, Lev83, WCS80, Wri81a, BK89, Dja81, Mas83, SWW83]. **Calculations** [CGS89, EO80, GT84, Luc83b]. **Calculator** [Tha81]. **Calculus** [Sal80]. **Calderón** [II89]. **Cambridge** [Stu81a]. **capturing** [Sze89]. **Cardinal** [CJW87, Lun80]. **Carlo** [Bue84, SL84]. **Carmichael** [Dub89]. **Case** [Cas83a, Cas83b, DMG89a, DMG89b, PdW86, PP80a, PP80c, de 86, AH81, EL89, Had82, TW89]. **Cases** [Car89]. **Caslin** [Fet81b]. **Cauchy** [Rab85, Rab88b, BS88b, CM87b, FM86, Ioa83, Ioa85a, Ioa85b, Mas89, Oke87, Rab83, Rab88a, RL89]. **Cauchy-type** [Ioa83, Ioa85a]. **cell** [Cot87]. **Cells** [BB85b]. **century** [Gau94, Sal81]. **Certain** [Bre80, Hud84, JA82, Wah84, Akr85, BLL87, BBG87, Bru82, BW87, Cha82b, CR82, CR83, Eas86, Gar88a, Gre82, Hil82, Las82b, Let86, LS83, Mas89, TW86, Wag80, Wil80c, WD84]. **Chains** [Löh89, McC86]. **change** [FM85, Ste84a]. **character** [MP87]. **characterization** [ST87]. **Characterizing** [Ada87]. **Characters** [Dar86]. **Chebyshev** [Bla82, FO86b, Has86, Per87, Boy81, Boy82b, BS84, CM83, DW81, FR89, Fis88, FO86a, För87, GR81, Got81a, GO82, HTN83, Hor80, JF87, Per85, Saa84, Sch80b, Scr88, SL81, Tan88, WBR82, Xu89]. **Chebyshev-Type** [FO86b, FO86a]. **Chemical** [BB85b]. **Choice** [Gfr87b, Gfr87a]. **Circle** [Mae86]. **Circular** [CS87a, CsAS87, GO82]. **Class** [Bue87a, CM87a, Gla81, How80, HW82, IS86, Mol87, Sch83b, SW88a, Ser80, Was87, van82a, BC86, BW88, BW89, BPv89, Bue84, BS84, CMSY83, CW87, CGT88, CR82, DW85b, EN87, HHR<sup>+</sup>87, Hil82, HS85, Let86, LQ88a, Mas83, MPR81, MP87, Mun81, SWW83, Set80, Sta81, SW88b, TW86, WDS83, Wil88]. **class-number** [TW86]. **Classes** [Len84, Mac80, DM82a]. **Classgroup** [CL83]. **classical** [MZM89]. **Cliffs**



[vK86]. **Closed** [Köl82, DLR81, LS85]. **Closure** [BC82a]. **clusters** [NB89]. **Codes** [Gor87, Sha81, SW86b, Sha82a]. **coefficient** [AD82, Fal83, GOT81b, Ric81]. **Coefficients** [Bal84a, Fra81b, Goe88, Hud84, NT87, Wri81a, Wri81b, Bal84b, BDS85, Bro84a, Cha87, EGL80, FW80, Fra81a, Hor80, Kar86, Kee89, Kip84]. **Cohen** [Was86]. **Cohomology** [Rus89]. **Collocation** [AW83, AW84, Bru89, LN89, MR83a, dS80a, dS81a, AD82, Bru85, CG88, CS87b, CES88, Fis88, KS87, Kum88, Nak84, SW85, Sch86]. **collocation-** [Nak84]. **collocation-Galerkin** [AD82]. **collocation-type** [KS87, Kum88]. **Columbia** [Gau94]. **column** [JS87a]. **Combined** [LL83b]. **Comment** [II89]. **comments** [TW80]. **Common** [Ben83, KR89, Lac84]. **Commutator** [BC82a]. **Comp** [AD88, Bac80, BCW82, Bla82, Bri82, Cha85, Fai84, Fet82b, Fet82a, Fra81a, Gra87a, GS80, Had82, Has86, Hea86, HH88b, Jae85, Kel82a, Kel82b, Kel82c, Kel83a, Kro80, LA84, Lew87, Mei85, Per87, Rab85, Rab88b, Sha82b, Ske86a, Vau84, Wil88, Zag88, te 86c, te 86d]. **Compact** [Swa80, MP87]. **Comparison** [BK89, Scr88]. **comparisons** [SF82]. **Complete** [DM83, Man84, PP80c, Fet81b, SS88]. **Complex** [ALS89, GO82, Sch83b, Ser80, BS88b, Buc87, BW87, CH84, CM83, Cor80, CT89, DW85b, Ell83, Fet81b, GR81, Kim88, Rei85, SN83, Tan88, Wil88]. **complex-valued** [GR81]. **Complexity** [Wer84b, Wer86a, FP85, Wer80, Wer86b]. **Composite** [Dyn84, Ise82, YB88, EP86, Jae83, Jae85, KP89, MT86]. **Compressible** [DR83]. **Comput** [Mor90]. **Computation** [AMS84, Bai88a, BP89a, BP89b, BBG82, Cha84, DW85b, Ell83, ELS89, Kar80, Lan81, MP87, PZ82, PWZ82, Sch85c, SW88b, TL81, TZ87, Wil88, te 86a, te 86b, BM80, Bru82, Buc87, BW89, BF89b, BPv89, Cha85, CW87, Gau94, GR89a, Las82b, Mat87, MNP84, Sid80b, Tem86, TW80]. **Computational** [Wer80, Fai84, Gau94, KFD83, SW88c, Tha81]. **Computations** [van82a, EG87]. **Computer** [CD86, Man84, BBG86, Gar88a, Ril83, Vrs86, WWL81]. **computer-assisted** [BBG86]. **Computing** [AS86, BC82a, BC82b, CGM86a, CGM86b, Can87, Dar86, GS89, GW85a, GW85b, Gra87a, KR89, LMO85, LS85, New86, Poh87, Sil88, EM87, JF87, Kro80, Lev82a, Mar80b, McC81b, Mos81, Vau85b]. **Concerning** [Ste88, Wil81b, BCW81, BCW82, SW88c]. **Condition** [Hei89, Gui87, OHW85, Sch85b, Tad84b, Vil88]. **Conditions** [Gir88, Pit80, BS88a, BC86, FG88, HK87, HH88a, Hal82, Hal86, Hig86a, Hig87, LeV86, Slo83, Swa80, Tad83, TH86]. **conductor** [ACHv80]. **configurations** [DM83]. **conformal** [Rei85]. **Congruence** [Rot84, She86]. **Congruences** [TW87, AEM87]. **congruential** [AW89, ELT88, Nie89]. **Conjecture** [Yam86b, BGZ85, Dea85, Yam86a]. **Conjectures** [Fra81b]. **Conjugate** [SS85]. **connected** [DF81, WT82]. **Connection** [Leh88b]. **conservation** [CS89, CM80, EO81, GL85, HTE81, JS87b, Luc86a, Luc86b, OS82, OS83, OT88, San88, Shu87a, Shu87b, Spe87, Sze89, Tad87, Vil88]. **conservative** [Sch85b, Tad84b, Win80a]. **consistent** [DM82a]. **Constant** [Bue87b, GW85a, Bai88b, BM80, Cha87, GW85b, Gra87a]. **constants** [Bai88b, BF89a, BW87, Dea85, Net80, SW82b]. **constrained** [DF83, Neu87, ST87, Tap88]. **constraint** [BS88a]. **Constraints** [MW86c, LP86, Mil87, SB89]. **Constructing** [PP85a, PP85b]. **Construction** [Kre86, Ske86b, Ske86c, ATZ83, BPS86a, BPS87, BPS88, BPS89, Fer80, Gla87, Vau85a]. **contain** [SS86b]. **containing** [Las82b, Mas83, SS88, Tem86, Tre85]. **contains** [Mah85]. **Continued** [Dud87, PW85, Wil81b, Cha80, Gau83, Jag82, McC83, TW83, Wil81a, WD84, WW87, Wun85]. **Continuous** [AM89, Ben84a, BJVZ89, JF87, Zen86]. **Continuum** [II89]. **Control** [Win80b, CT87a]. **Convection** [DMG89a, DMG89b]. **Convection-Diffusion** [DMG89a, DMG89b]. **Convenient** [GT85, GT87]. **Convergence** [AW83, BDK83, BM82a, Boy80b, Bra84, BP87, Bre82b, CN88, Cot87, Del89, EN87, Gfr87b, Gre86, Hac80, HT81, Hug86, KG85b, LC88, Lor86, LP86, LS86, Luk88, Mak80, Mic87, Pie88, Puc89, Rab88a,



Rob89, Sze89, Yse86, van88, AJS83, BD80, BM81, Boy81, Boy82b, CS87b, CES88, CM87b, DRS85, DW81, Dut89, Eri85b, Far86, Gau83, Gev84, Gev89, Gfr87a, HH88b, HV89, Ioa83, Ioa85b, Jag82, JS87b, Kin80, KG85a, Lev80, LR84, Mar80b, Mar81, Mas89, OT88, Par80, Pen81, Phi80, Rab86b, San83, SW85, Sch84c, Shi84, Shi87, Sid80a, SF82, SS89, ST87, Sty80, Tsu87, Ver82, Ypm83, dS81b]. **Convergent** [Bai88a, Bea86b, Gar88b, KMS<sup>+</sup>86, Arn83, Bea86a, McC81b, PT85]. **Converging** [BB86]. **Convex** [Cos86, Met86, Kiw85, Spe86]. **convexity** [DEH89, FM86]. **convexity-preserving** [DEH89]. **convolution** [Mah80]. **coordinate** [KBF87]. **coordinates** [WT82]. **Cormack** [Kel82c]. **Corner** [Wah84, Dja81]. **corner-shaped** [Dja81]. **corners** [Pit81]. **corrected** [vK82]. **Correcting** [Gor87]. **Correction** [Pai82, Rab85, KBF87]. **corrections** [Auz87]. **corrector** [JM85]. **Corrigenda** [Ano80, BCW82, Bla82, BP88b, Fai84, Fet82a, God84a, Had82, Hea86, HH88b, LA84, Mor90, Rab88b, Vau84, Wil88, te 86c, te 86d]. **Corrigendum** [Ano88a, Cha85, Fet81a, Fet82b, Gra87a, GS80, Has86, W.80, Jae85, Kel83a, Kro80, Lew87, Mil87, Per87, Sha82b, Shi19, Ske86a, Fra81a]. **Cosine** [BDS85, BD89a, BD89b]. **cosines** [Sal84, SL85]. **Cost** [Kea87, New86]. **counterexample** [Dea85]. **Counting** [EKS88, JS87a, Shi86, Shi19]. **coupled** [IIMPL81]. **coupling** [JN80]. **course** [Stu81a]. **covers** [LS85]. **Crandall** [Kel83a]. **crimes** [Gol80]. **Criteria** [Sch83c, Bri82, GT81, GT85, GT87]. **criterion** [Iga84]. **Critical** [FCM88, BvtW82, te 86c, te 86d, vt83, vtW86]. **Crosswind** [JSW87]. **Cryptosystems** [Kob87]. **Cubatures** [Mae86]. **Cubic** [Car89, ET85a, ET85b, GS89, JS81, LO82, Was87, WCS80, Yan87, BC86, CS87c, DEH89, DW85b, Let86, LQ88b, SWW83, TW86, Wil80c, WDS83, WD84, Wil88]. **Cumulative** [AMS84]. **Curiosity** [Ste88]. **Curvature** [MS87]. **Curve** [Can87, Kob87, Yan87, van88, BGZ85, Las82a, Mon87, SH80]. **curve-fitting** [SH80]. **Curves** [BM82c, Kre86, Rüc87, Sch85c, Sil88, Zag87, ACHv80, CES88, Rei86, Sar87, TZ87, Zag88]. **Cusp** [FMPT84]. **Cyclic**

[ET85a, EMT85, Gra87b, RW84, Tro80, Tro85, HHR<sup>+</sup>87, Leh88b, SW86b, Tro89, Vau85a]. **cyclide** [KBF87]. **Cyclotomic** [BS89, BSSW87, IS86, LL87, SW88a, BW87, CT89, SWW83]. **Cyclotomy** [LL83a]. **cylindrical** [CS80b].

**D** [Bri82, Fet81c, te 86c, Bea86a, Bea86b, DNW88, GL85, LC88, Mah80]. **D.C** [Lon83, Smi83]. **Data** [Fra82, BPST89, CT87c, CTW89, Eri85a, GV87, JLTW87, Las86, Nie83]. **Davis** [Che83]. **Decay** [DMS84]. **Decimal** [Bai88a, Sal84, SL85]. **Decomposition** [Bun82, Mah85]. **Decompositions** [JT81, Pai80, Ste84c, MP87]. **Defect** [Auz87]. **Definite** [Gla83, Man80]. **definiteness** [Rab86a]. **Definition** [GfZ88, BF88]. **Deformations** [BB85a]. **degenerate** [Noc89, Soc86]. **Degree** [Bau86a, Met86, AG83, Bau86b, GO82, Rab80, SW85, Sal84, SL85]. **delay** [Bru89]. **denominator** [Mah85]. **Density** [Cos82]. **Dependent** [BOP80, Bal84a, HT81, AD82, Bal84b, BDS85, DW83, Kar86, Kee89, Tad83]. **derivative** [CS80b, CS82, CS83b, Eli86, KG82]. **derivatives** [Apo85, Ioa85b, McC81b, Net80]. **derived** [McC86, Toi81]. **Description** [PP80c]. **Design** [Gar89]. **Determination** [Bra83, EL89, FT84, Wil82b, AW89, BW87, CT89, DLR81, Net80, Rei86, Set80]. **determined** [Mol87]. **determining** [Fie81, Gar88a, Zul88]. **devices** [Zlá86]. **diagonal** [Kat80]. **diagonally** [Mar80c, Mar81]. **diagram** [BB85a]. **Diaz** [Fai84]. **Difference** [Bue87b, DW83, Eva83, Gar87a, Gar88b, GfZ88, Mic87, Sch85a, Soc86, Sto80, te 87, BSC81, BPST89, Cas80, CM80, EO81, For88, Gar87b, Gar88c, GT81, GT85, GT87, GT84, GOT81b, Gre82, Hac80, HTE81, Hig86a, HS85, Hof85, Kar80, Lew85a, Luc86b, LR80, MZM89, McC83, Mic83, Mun81, Nas87, OS82, OT88, San83, San88, Slo83, Sta81, SJI85, Swa80, Tad83, Tad84b, Tre85, Wei84a, Wei86, Whi83, Ypm83]. **Difference/Finite** [Gar88b]. **Differences** [Isa80, Mor89, Sal80, Kro80, MNP84, Mor90, NS85]. **differencing** [San83]. **Different** [te 81, Sch85a]. **Differential** [AV85b, BE88b, Cas83a, Cas83b, DD86a, DD86b, Gek82, Maj86b, Rhe84, AV85a, BW85, BE88a, Bru84, Bru89, Cha82b, Cha87, CS80a, CS83a, CR82, CR83, DHT81, Fat80, FO82,



Gre82, HLR88, Hor80, Ise81, Kat80, LO83, LeV86, Lew85a, LP86, LR80, Maj86a, Mak80, Mak81, MZM89, RHD81, Sch83a, Swa80, TZ89, Wer80, dS80a, dS81a, de 87, vt85a, vt85b].

**Differential-algebraic** [Rhe84].

**differential-difference** [Gre82, Lew85a, MZM89].

**Differential/Algebraic** [BE88b, BE88a].

**Differentiation** [BE88b, AJ81, BE88a, LP86].

**Differing** [LM81]. **Difficult** [Dem88]. **Diffusion** [DMG89a, DMG89b, Cha87, Gal83, Hal86, JS86, JSW87, LC88, OS86b, Ric81, SW83, Sze89]. **digit** [Sha82b]. **Digits** [Bai88a, LMv86]. **Dimension** [CH89, ET84, EN87, Gar88a]. **Dimensional** [MMM88, PP80a, PP80c, PH84, VB81c, AJS83, BS88b, BK89, CT87a, CN88, Cot87, Dja81, Hal82, Hof85, Lev82a, Mas89, Neu87, OS86b, VB81a, VB81b]. **Dimensions** [BM82a, PP80b, PP80c, BM82b, Gui87, SW83, Sze89, WZ88].

**Diophantine** [Ale85, Bro84b, Cas85, Dea85, Gup84, Hil82, Hud84, Mol87, SB84, Wil80a, Zaj83]. **Direct** [DM82b]. **Dirichlet** [Auz87, Bra81, BP89a, BP89b, HW82, Wer82]. **discontinuity** [Lay81]. **Discontinuous** [DHT81, DD86a, DD86b, CS89, JP86, Ric88]. **discrepancy** [AW89]. **Discrete** [AB87b, Bal84a, Ben84b, Tsu87, AB87a, BDK82, Bal84b, CTW89, DK85, FM86, GV87, JLTW87, Sch80a]. **Discretization** [GR89b, BB85a, BL88, CT87c, DW81, Eld82a, Eld82b, Gev89, Hal82, SSP85]. **Discretizations** [Maj86b, Kee89, Maj86a, MZ88, Spe87].

**discriminant** [BF89b, God84a, God84b, LQ88b, Sey87, Vau83, Vau84, Vau85b]. **Displacement** [DR83]. **Dissection** [Ana80]. **Dissipation** [KG85b, KG85a]. **dissipative** [Lay81]. **distance** [Ziv82]. **Distinct** [Lun88, Kis85]. **Distribution** [Mar80a, Pom81, Ray88a, FW84, Hud85, Odl87, Ray88b, Wri84]. **distributions** [SW86b].

**divergence** [LV89]. **divergence-free** [LV89]. **Divided** [NS85, Kro80, MNP84]. **divisibility** [Wag80]. **Divisible** [Kis83, BB88, Kis85]. **Division** [Mon85b]. **Divisor** [Ray88a, Ray88b]. **Divisors** [Goe88, KR89, Len84, Wag83]. **Does** [Wer84b].

**Domain** [GGT87, LC88]. **domains** [Auz87, Gol81, Gol82, HK87, Pit81, RHD81, Sch80a]. **dominant** [Mar80c, Mar81]. **dominating** [Gaá88].

**Double** [Lev82b, Lev83, IIMPL81, Lev80, Tem86].

**Doubled** [Löh89]. **doubly** [WT82].

**doubly-connected** [WT82]. **Dover**

[Dav82, vK83b]. **drives** [GS80]. **due** [BB85a].

**Dueck** [Wil88]. **Dyer** [BGZ85]. **dynamic**

[HTE81]. **Dynamics** [Le 81a, HH88a].

**edition** [Car80, Fet81c, Fet81e, Fet84b, Pex81, Stu81a, Tem81, vK82]. **Edwards** [Bla82]. **Effect** [McC86]. **Effective**

[Eas86, MNR89, PZ82, PWZ82, Wil87]. **effects**

[Hud85]. **efficiency** [McC86]. **Efficient**

[BP88a, BS80, ELS89, Smi89, Wil80a, Kin80, Mit83a, NV88, Sid80b, Spe86]. **eigenfunctions**

[Gar84]. **Eigenvalue** [Mar82a, MORR81, Nas87, Pai82, PSS82, Saa84, ER80]. **Eigenvalues**

[BP88a, GK89, BO89, Gar84, dS80a, dS81a].

**eigenvector** [BBG82]. **eigenvectors** [BO89].

**Eight** [Mor89, PP80c, Hag80, Mor90]. **Eighteen**

[Pri83]. **Eighth** [BP81]. **Einstein**

[GM85a, GM85b]. **elasticity** [PS83]. **Element**

[AK81, Ben84a, Ben84b, CT87b, Gar88b, Gir88, SW82a, Ste84b, Wah84, Yse86, ADT81, AW82, BS88a, BO89, BD81, BR82, CN86, CMSY83, CT87a, CS89, DW89, DL81, Dur87, DNW88, Eri85a, Eri85b, Eri85c, EJ88, Fai84, Fie81, Fri84, Gol80, Gol81, Gol82, Han82, JN80, JP82, JS87b, JSW87, KFD83, KL85, Lus80, MZ88, MNR89, Mil85b, Mon88, OS86b, Pit81, PS83, PS85, RS82, Sch80a, SW83, SS89, Sze89, TZ89, Wer82, Win80a, Win81, Zlá86].

**element-Galerkin** [BO89]. **element-penalty**

[CMSY83]. **Elementary** [Mey84, Smi89].

**Elements** [BBP81, AM89, BR85, Bre89a, CF89, Gau83, Shi84, Shi87]. **eleven** [Hag83, Kis85].

**Elimination** [Ske80]. **ellipsoidal** [ATZ83].

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[ACHv80, AKS85, BM82c, Car87a, Car87b, Car88a, Car88b, Car89, Fra81b, Gor89, Kob87, Kre86, MM89, Rüc87, Sch85c, Sil88, Wer86a, Wri81a, Wri81b, Zag87, de 86, BW85, BPS86a, BPS86b, BPS87, BPX88, BPS88, BP88b, BP88c, BPS89, BGZ85, CT87a, DR85, EJ88, Fet81c, Fet81b, HK87, Kip84, Las82a, MZ88, MT86, Mil85b, Mon87, Mun81, Nak84, Rei86, RHD81, Sar87, Sta81, TZ87, Wer82, Wer86b, Zag88]. **Enclosure** [GR89b].

**endpoint** [Boy81, LS86, Sid80b]. **energy** [Gev84].



**engineers** [Fet81c]. **Englewood** [vK86]. **English** [Car80, Dav82, Fet81e]. **enlarged** [vK82]. **entire** [GL82]. **Entropy** [OHW85, EO80, Sch85b, Tad84b, Tad87, Vil88]. **enumeration** [SS88]. **equality** [DF83]. **Equally** [LL82]. **Equation** [Bra84, BC84, CD88, McI86a, PdW86, Poh87, SS84, Ste86a, Wil80a, de 86, Ale85, AD82, ADT81, AW82, AM89, BDK83, BS88b, Bro84b, Bro84a, Cas85, Coh82, CES88, DK85, FM86, Hal82, Hal86, Hig86a, Hig87, Hof85, JP86, Las82a, Lun80, McL86, Mon88, OHW85, Puc89, Rob89, SB84, SB89, Swa80, Win80a, Zaj83, dS80a, dS81a]. **Equations** [AB87b, AV85b, Bal84a, BD89b, Ben84a, Ben84b, Cas83a, Cas83b, Coh88, DMG89a, DMG89b, DD86a, DD86b, Dup82, Gek82, Gir88, Gup84, HT81, Kel86, KG85b, Le 81a, Le 81b, Maj86b, McI86b, Mis84, Pas80, Str89, Tho81, Yse86, AB87a, AV85a, BD80, BDK82, Bal84b, BDS85, BD89a, BD81, BR82, BW85, BM81, BJVZ89, BT87, Bör89, BHN82, Bru84, Bru85, Bru89, Cas80, CG88, Cha82b, Cha87, CN88, CS80a, CS83a, CS87b, Cot87, CL84b, CR82, CR83, CT87c, CTW89, Cuy82, DHT81, DL88b, Dic80, DR85, Egg84, Egg89, Eld82a, Eld82b, EN85, Fat80, FT84, FO82, FG88, Gaá88, Gev84, Gev89, Gla82, Gla87, Gol82, Gra82, Gre82, GV87, Hac80, HLR88, HS81, Hil82, Hor80, Ioa83, JS81, JS86, JLTW87, JM85, Kat80, Kee89, KL85, KG85a, KS87]. **equations** [Kum88, Lay81, LO83, LeV86, LC88, LP86, Lub83, Lub85, LR80, Maj86a, Mak80, Mak81, MZM89, MT86, Mik89, Mol87, Nak84, Neu87, PS83, Por85, Rhe84, RHD81, Sar87, Sch83a, Sch81, Slo81, SS86a, Soc86, TZ89, Toi86, TH86, Ven86, Vér82, Wer80, Wol83, Wri85, Zlá86, de 87, vt85a, vt85b]. **Equivalence** [BT87, Mon81, SSP85]. **Equivalent** [Ske86a]. **Erdélyi** [Fet81d, KP88, vK83c, vK83d, vK83e, vK83f, vK83g]. **Errata** [Sal81, Ano88b, Bac80, Bri82, Car80, Che83, Dav82, Fet81d, Fet81c, Fet81e, Fet81b, Fet82b, Fet84b, Kel82a, Kel82b, Kel82c, KP88, Kni88, Kru83, Lon83, Pex81, Phi87, Sal84, SL85, Smi83, Stu81a, Tem81, vK82, vK83a, vK83c, vK83d, vK83e, vK83b, vK83f, vK83g]. **Erratum** [Fet82a, vK86, Sol86]. **Error** [CTW89, Fal83, Gor87, HS85, JR82, JLTW87, Olv88, Pai80, TZ89, VB81c, Akr85, BW85, BN82b, BL88, Bre89b,

Che82, CMSY83, Com89, DNW88, Egg89, FO82, Gol80, LM80, McC84b, Mie80, NV88, Por85, Ral83, RS82, Ric88, Sar87, TW83, VL80, Wer82, Ziv82]. **Error-Correcting** [Gor87]. **errors** [JSW87, Kiw85]. **escalation** [Mah81]. **Essentially** [CGS89]. **Estimate** [Mae86, BN82b, Ric88]. **Estimates** [BP87, GK89, HT81, Lay81, McC84a, Pai82, Per85, Per87, Wah84, BHK84, Che82, CMSY83, Com89, CTW89, DR85, Dur87, DNW88, Egg89, Fal83, Gol80, JR82, JLTW87, McC84b, NV88, RS82, Sar87, Tho80, TZ89]. **Estimating** [PSS82, Bre89b]. **Estimation** [Por85, VB81c, GT84]. **estimators** [BW85]. **Euclidean** [CD86, PH84]. **Euler** [Phi87, Bai88b, BM80, CN88, Cot87, JS86, Rot82]. **Euler-summation** [Phi87]. **evaluating** [CM87b, WDS83]. **Evaluation** [AB80, BP88a, LA82, LA84, Lev82b, Lin82, LW82, Lin86, NV82, SF87, FW85, Gra88, Mah81, Mah85, Mas89, Mei85, Sid82a, Smi89, Stu81b, WM81]. **evaluations** [AJ81, Lav86]. **Even** [PP80b, SW85]. **every** [Hag80]. **Evolution** [Dup82, Mik89, Vér82]. **exact** [AW89, FCM88, Rab80]. **example** [Gra83]. **Existence** [Cha84, CL83, Mah80, Cha85]. **Expansion** [Fra81b, Pie84, Won88, Wri81a, Wri81b, Eli86, SW82b, Wil81a]. **expansions** [BLL87, BL88, CM83, IL88, LM80, Mun81, Sch80b, Sta81]. **expectation** [Bue84]. **experiments** [Gar89]. **Explicit** [CD88, McC84a, McC84b, Rei86, Ste86b, Coh82, Luc83b]. **Exponential** [Isa80, Ise82, IN83, Mil85a, de 86, EGL80, Mas83, MNP84]. **exponentially** [Arn83]. **exponentiation** [McC86]. **Expressions** [Köl82, KBF87, Stu81b]. **extended** [Lew85a]. **extension** [CR83, Vau83, Vau84]. **Extensions** [Fet85, BJVZ89, Ker83, Vau85a, Zen86]. **Exterior** [Ben84a, Ben84b, Gui87, HH88a]. **extrapolation** [Cha82b, Kin80, Noc89, Sid82a, Sid88].

## F

[Fet81d, Fet81c, Fet84b, KP88, Kni88, Pex81, Tem81, vK83a, vK83c, vK83d, vK83e, vK83f, vK83g, Shi87]. **Faber** [CsAS87, CS87a, Ell83]. **FAC** [MT86]. **Factor** [Gos80, Mah85]. **Factorial** [Mur82]. **Factoring** [AD88, BS89, Ger83b, Ser80, Wil82a, Bac80, Bue84, CZ81, SL84, WW87, Wun85].



**Factorization** [BP81, Dix81, GA81, Man80, vK85, AO83, Bac80, KLL88, Mon87, Sey87].  
**Factorizations** [BMS88a, BMS88b, Cha84, DM82b, KR89, Nau83, Bri82, Cha85, Elm86, SS88].  
**Factors** [GM82, Kel83b, Wil82b, te 81, Bre82a, FM85, Hag80, Hag83, Kis85, Loc81]. **false** [EP86].  
**Family** [GR88, Loc89, Han82]. **Fast** [Dix81, Ger88, KSW86, EK89, For81, MT86, New85, PSS89, Tan88]. **faster** [Sty80]. **Fejér** [FR89]. **Fermat** [BP81, Bre82a, GM82, Kel83b, Leh81, Sch83c, SW81, TW89, YB88]. **Fermi** [GM85a, GM85b]. **FFTs** [Swa86]. **Fibonacci** [Ano88b, BMS88a, BMS88b, MP85]. **Field** [Wil80b, WCS80, Bru82, BW88, BW89, DW85b, Gir87, Pas84, Vau83, Vau84, Vau85b, WDS83, Wil88]. **Fields** [BP89b, Bue87a, CM87a, CL83, ET85a, EMT85, ET85b, GS89, Gra87b, GA81, IS86, KR89, LS87, LO82, Rüc87, Sch83b, Sch85c, SW88a, Was87, van82a, AD88, BW87, BP89a, BF89b, BPv89, CZ81, CW87, CS87c, Ger83a, God84a, God84b, HHR<sup>+</sup>87, Let86, LQ88a, LQ88b, Mol87, Rei86, SWW83, Set80, SW88b, TW86, Wil80c, Zlá83, vK85].  
**Fifteen** [BSSW87]. **Filament** [Gre86]. **filtering** [GV87]. **Filters** [ELS89]. **find** [Iga84]. **Finding** [Lar80, Wri85, Kal82, Las82a, Leo80, NS85, PT85].  
**Finite** [AK81, BO89, BBP81, Ben84a, Ben84b, CN86, CT87b, DW83, Eri85a, Fri84, Gar88b, Gir88, GA81, LS87, Neu87, PP80a, PP80b, PP80c, Que81, Rüc87, Sal80, SW82a, Sch85c, Ste84b, SJI85, Wah84, Wil80b, Yse86, Zlá86, ADT81, AW82, AM89, BS88a, BD81, BR82, BR85, Bre89a, CZ81, CMSY83, CS89, CF89, DW89, Dur87, DNW88, Eri85b, Eri85c, EJ88, Fai84, Fie81, For88, GR89a, Ger83a, GT84, Gol80, Gol81, Gol82, GOT81b, Han82, HTE81, HS85, Hof85, JN80, JP82, JS87b, JSW87, Kar80, KFD83, KL85, LS85, Lus80, Mah80, MZ88, Mil85b, Mon88, Mun81, Nas87, OS86b, Pit81, PS83, PS85, RS82, San83, Sch80a, SW83, Shi87, SS86a, Sto81, Sze89, TZ89, Tre85, Wer82, Whi83, Win80a, Win81, vK85].  
**finite-difference** [GOT81b, HS85, Hof85, Kar80, Tre85].  
**Finite-dimensional** [Neu87]. **Finite-Element** [Yse86, OS86b]. **finite-section** [SS86a].  
**finite-sheeted** [LS85]. **Finitely** [BB85b]. **First**

[Bre80, Pie84, YP89, AD82, AW84, Cha82a, Egg84, Eli86, Fet81b, Gla82, Gla87, Lus80, TW89, Win81].  
**first-order** [Lus80, Win81]. **Fitting** [IN83, Lar80, Yan87, SH80]. **Five** [Kat80].  
**Five-diagonal** [Kat80]. **Fixed** [Alf82, LM81]. **flat** [KBF87]. **flat-ring** [KBF87]. **flow** [EO80, Fis88, Mos89, OHW85]. **flows** [CN86, Dja81, Ros83]. **following** [Spo84]. **Force** [Fet81b]. **Forecasting** [LL82]. **Form** [BCP82, CW80, HJ81, Gaá88, Kel82a, Kel82c, Kel83a, Kel83b, McC83, Tsu86]. **Forms** [FMPT84, CD87, McD89, Sey87, Ske86a, Wil87].  
**formula** [BN82b, Far86, HC81, Ioa85a, Phi87].  
**Formulae** [CGM86a, CGM86b, GR88, HW82, Min80a, Akr85, Boj81, GN88, Oke87]. **Formulas** [Apo85, Fet84b, FO86b, FO86a, Lav87, Mur82, Pex81, Sha81, Sha86, Ske86b, Ske86c, Tem81, vK83a, Che82, Dyn84, For88, Lon83, LP86, Mas89, Mon86, Olm86, Sch84c, Sha82a, Ske86a, Smi83, vK83b].  
**formulation** [CN86, CR83, Fri84, KG82, OO84, Pas84]. **Four** [Bra83, MMM88]. **Four-Dimensional** [MMM88].  
**Four-State** [Bra83]. **Fourier** [LA84, BT87, CGS89, For81, Kip84, LA82, Lun83].  
**Fourth** [Eva83, Car80, Fet81e, HTE81, Kat80, Slo83, Stu81a]. **fractals** [Gar88a]. **Fraction** [Wil81b, Cha80, Jag82, Mah81, Mah85, McC83, Wil81a, WD84, WW87, Wun85]. **Fractional** [GfZ88, Isa80, Lub85, Mon81]. **Fractions** [Dud87, PW85, Gau83, TW83]. **framework** [CS89]. **Fredholm** [BT87, HS81]. **Free** [Bea86b, Bea86a, LV89, MNSS89, NV88, Sto81].  
**Frequency** [IN83]. **Fresnel** [Hea86, Hea85].  
**Fricke** [Coh88]. **Friedman** [Fet81c]. **Friedrichs** [Tad84a]. **friendly** [Sid88]. **Frobenius** [Toi81, Yam86a, Yam86b]. **full** [OHW85]. **Fully** [Bal84a, BDK82, Bal84b, DK85]. **Function** [Alf82, Bau86a, Boy80b, Bra83, BI86, CT87b, EKS88, Fet85, Fra81b, IS86, IN83, Laf84, Mac80, Mil85a, SW81, WH83, Wri81a, Wri81b, Apo85, AJ81, Bau86b, BBG87, BF88, BvtW82, CN86, Cha80, CM83, CS80b, CS82, CS83b, Eli86, FW80, Fra81a, FW84, Ker83, Las82b, Leh88a, LW82, Loc81, Lun83, Lun80, LM80, Mah85, MNP84, Odl87, Oku83, Per85, Per87, Tem86, TW80, VL80, Wri84, te 86c, te 86d, vt83, vtW86]. **functional**



[LM80, Wol83, de 87]. **functional-differential** [de 87]. **Functionals** [Mee80]. **Functions** [Ben83, CW83, För87, GM85b, JA82, KCL82, KE84, Lac84, Lar80, Lin86, Pie84, Que81, Ray88a, Xu89, ATZ83, BLL87, BB82, Bla82, BBG87, Boy81, Boy82b, BS84, Cha82a, CH84, DiD82, DS80b, FM86, Fet81d, Fet84b, Fri84, GL82, GM85a, GN88, GR81, Hab83, IL88, Kip84, LV89, Lev82a, Lew85b, Lew87, Lon83, LS86, Mas83, Mon86, MP87, New84, Pex81, Ray88b, SW85, Sch80b, Smi83, Smi89, Tem81, TL85, VB81a, Vrs86, WBR82, vK83a, vK83c, vK83d, vK83e, vK83b]. **Fundamental** [GGT87, PZ82, PWZ82, BF89a, Buc87, CS87c, Ril83, Zlá86]. **Further** [Fet85, Ioa83, Laf84, TW80]. **fusion** [Gar89].

**G** [Dav82, Fet81d, Had82, Kel82c, KP88, Stu81a, Wil88, vK83c, vK83d, vK83e, vK83f, vK83g]. **Galerkin** [AD82, Arn83, AB87a, AB87b, BO89, BD80, BDK82, BDK83, CS89, DHT81, DK85, Egg89, ET84, EN87, Gev84, Gra82, Ioa83, JP86, Kee89, KG85a, KG85b, Las86, Lay81, Lun86, McL86, Nak84, Ric88, Sar87, SS89, Tho81, Tho80]. **Galerkin/Runge** [Kee89]. **Gallas** [Car80]. **Galois** [Mal88]. **Gamma** [BI86, Laf84, Cha80, FW80, Fra81a, FW84, Ker83, Wri84]. **Gap** [Wei81]. **Gaps** [Bre80, YP89]. **Gas** [Le 81a, HH88a]. **Gauss** [Rab85, Rab88b, Bra84, CGM86a, CGM86b, GN88, GR88, KE84, Rab80, Rab83, Rab86a, Rab86b]. **Gaussian** [Gra87a, Akr85, Che82, Dyn84, GM85a, GM85b, GW85a, GW85b, Ioa85b, Leh88b, LR84, Ske80, VL80]. **Gautschi** [Ker83]. **General** [Min80a, WF82, Auz87, Cyb83, Fri84, McC83, Olm86, SSP85, Tap88, CS89]. **generalization** [FHS86]. **Generalized** [BSC<sup>+</sup>80, Ger88, HP84, HTN83, Has86, Kea87, Lin82, Loc89, Mil85a, PdW86, DM82a, Eli86, ER80, Ioa85a, Lav86, LC88, MP85, Rab80, SJI85, Van82b]. **Generated** [LS81, EHGL89, Ger83c, Nie89]. **Generating** [Mar80a, te 84, FW84, Leo80, Wri84]. **Generation** [For88, Mon85a, Spo84, PSS89, WT82, WW87]. **generator** [ELT88]. **Generators** [Tez88, EHGL89]. **genuinely** [Tad84a]. **geodesics** [LS85]. **Geometric** [Mar82b, Jia87, dD85]. **German** [Fet84b]. **GFSR** [Tez88]. **give** [dS81b].

**Given** [te 84, BS88b, JE82, JS87a, Leo80, Zag82]. **Glance** [GLS87]. **Global** [DR85, Far86]. **globally** [PT85]. **Goldberg** [NT87]. **Goldstine** [Sal81]. **Golomb** [Kel82b]. **Goodness** [Mae86]. **Governing** [CL83]. **Government** [Lon83]. **GPST** [LC88]. **Graded** [Gar88c, Bru85]. **Graded-mesh** [Gar88c]. **Gradient** [SS85]. **Gradient-like** [SS85]. **Gradshtein** [Fet82a, Kru83, Sol86, vK82]. **Gradshteyn** [Fet81e, vK82]. **Gradstein** [Car80, Fet81e, Fet82b]. **graphs** [DF81, Lon83, SS88, Smi83, vK83b]. **Greatest** [KR89]. **greedy** [Ger83c]. **Grid** [Bea86b, DW83, Sch84a, Sch84b, Bea86a, Hac80, HS81, MT86, Olm86]. **Grid-Free** [Bea86b, Bea86a]. **Grids** [KMS<sup>+</sup>86, For88, OS83]. **Group** [Dar86, Lan81, BR88, DW85b, Gra83, Leo80, LQ88a, MNR89, Wil88]. **Groups** [Bue87a, BC82a, CM87a, Jam80, Mal88, Que81, Rus89, Sch83b, Yam86b, BPv89, BC82b, MP87, SS88, Yam86a]. **Gunderson** [SW81].

**H** [Bla82, Bri82, Kel82c, Sal81, Tza86]. **H.** [Sha82b]. **half** [Egg89, Gau94, SS86a]. **half-century** [Gau94]. **half-line** [Egg89, SS86a]. **Hall** [vK86]. **Halley** [Cuy82]. **Halley-iteration** [Cuy82]. **Hamilton** [CL84b]. **Hammerstein** [KS87, Kum88]. **Hand** [Saa87]. **Handbook** [Fet81c, Lon83, Smi83, vK83b]. **Hankel** [CS82, CS83b, FW85]. **Hansen** [vK86]. **Harmonic** [Ben84a, Ben84b, FP84a, CH84, FM86]. **Haselgrove** [SM82]. **Hausdorff** [Gar88a]. **Having** [Boy80a, Boy89a, Boy89b, McD89]. **Heat** [McI86a, McI86b, AM89]. **Hecke** [CD87, GGT87]. **height** [TZ87]. **Heights** [Sil88]. **helical** [Gar89]. **Hellan** [Com89]. **Helmholtz** [Gol82]. **Henrici** [Tha81]. **Hensel** [von84]. **Hermite** [Boy80b, DEH89, Dyn84, SSO83]. **Herrmann** [Com89]. **Hessian** [GT84]. **Hessians** [Sha80]. **Heuristics** [CM87a, Was86]. **High** [Eri85b, FW80, Fra81a, Gar87a, GR89b, Har86, Vil88, BM80, DK85, Gar87b, LR80, Sch80b, Shu87b, dS81b]. **High-Order** [Gar87a, Eri85b, Vil88, DK85, Gar87b, LR80, Shu87b, dS81b]. **High-precision** [FW80, Fra81a, BM80]. **Higher** [BM82b, BS80, Fet81d, Sch84a, Sch84b, vK83c, vK83d, vK83e, Apo85, BDK82, CN88, Vrs86].



**higher-order** [CN88]. **highly** [Fat80, Sch83a]. **Hilbert** [Coh82, Ger88, Vér82]. **Hill** [Fet81d, KP88, vK83c, vK83d, vK83e, vK83f, vK83g]. **history** [Sal81]. **homotopy** [Zul88]. **Howell** [Spo84]. **Howland** [Lin82, LW82, Lin86]. **Howland-Type** [Lin86]. **HP** [Tha81]. **HP-25** [Tha81]. **Hybrid** [DD86a, DD86b, LL83b, MORR81, DL88b]. **Hybrid-Combined** [LL83b]. **Hydrocode** [Hic81]. **Hyperbolic** [Bal84a, BD89b, BLM89, KG85b, Mic87, PdW86, AD82, BD80, Bal84b, BDS85, BD89a, Dut89, FG88, Gev84, GT81, GT85, GT87, HTE81, JS85, JP86, JS87b, KG85a, Lay81, LO83, LeV86, Luc86a, Lus80, OS82, Slo83, Spe87, Tad83, Ven86, Vil88, Wer86b, Win81]. **Hyperelliptic** [Can87, LCC88, LCC89]. **Hypergeometric** [JA82, Lav86, Lew85b, Lew87, LCC88, LCC89]. **Hyperperfect** [Hag81, Min80b, te 81].

**ideal** [BW87, BW88]. **identification** [Fal83, Ric81]. **Identities** [BBG88, BBG87]. **II** [God84a, te 86c, AW84, BM82b, Ben83, Boy84, Boy89a, Boy89b, BPS87, BvtW82, Bue87a, BC82b, Cas83b, CS89, DM83, Eld82b, Fet81d, God84b, GT81, GT87, Kis83, PWZ82, Ray88b, Smy81, VB81b, Yam86a, Yam86b, de 86, vK83d, vK83g]. **III** [te 86d, BPS88, PP80a, VB81c, vK83e, vt83]. **III** [Gfr87b, EN85, Gfr87a, Mar80b, Neu87]. **Ill-Posed** [Gfr87b, EN85, Gfr87a, Mar80b, Neu87]. **illustrations** [dS81a]. **imaginary** [CW87, HHR<sup>+</sup>87, Set80]. **Immanent** [GM84]. **Implement** [NOPEJ87]. **Implementation** [CL87a, CL87b, For81, NV88, Ril83]. **Implementing** [Wun85]. **Implicit** [Bru84, DW83, JT81, Sha81, HTE81, Hof85, Sha82a, Swa80]. **Implies** [Ske80]. **imposing** [FG88]. **improperly** [Han82]. **Improved** [Eri85c, FP85, Hei89, EN85, McC86]. **improvements** [Luc83a]. **Improving** [Pen81, Wil80c]. **inaccurate** [DM82a]. **including** [FP85]. **Incomplete** [BPST89, LCC89, Man80, RW84, Elm86, Mah85]. **Incompressible** [Gir88, JS86]. **Increased** [Wer84b]. **Indefinite** [Kea83, Wer86a, BPX88, BP88b, BP88c, Dav82, DiD82]. **independence** [DM83]. **Independent**

[BP89b, LL82, BP89a, GT81]. **Index** [AMS84, Sto81]. **Inductive** [Min80a]. **Inequalities** [BI86, Dud87, JA82, Laf84, Mey84, Ker83, Mit83a, Net80]. **Inequality** [Tro80, Tro85, Tro89]. **Inexact** [Alf82]. **Infinite** [AB80, BBG88, Mar82a, PSS89, Bru89, Lev80, Mat87, Sch86, Sid82a, Sid82b, Sid88, Slo81, SSO83, SN83]. **inflow** [Tad83]. **inflow-dependent** [Tad83]. **Influence** [Wah84]. **infrastructure** [BW88]. **inhomogeneous** [Gaá88]. **Initial** [AV85b, Cas83a, Cas83b, Mic87, Win80b, Alf80, Ana87, AV85a, CT87c, CTW89, Dut89, GT81, GT85, GT87, HV89, JLTW87, Mic83, Par80, Spi85, Win81, dW85a]. **initial-boundary** [Dut89, GT81, GT85, GT87, HV89, Mic83, Win81]. **initial-value** [Par80]. **Insensitive** [Sha81, Sha82a]. **instability** [Tad83]. **Integer** [Boy85a, Boy85b, BM82c, BT83, Bue87b, HJ81, LM81, Lun88, Nau83, Col82, Jag82, WD84]. **Integers** [Dix81, GW85a, LMv86, Smy84, Ste88, Col82, Ger83c, GW85b, Gra87a, Smy81, Wil87, Wró84]. **Integral** [AB87b, Fet85, GS89, Kea83, Köl83a, Köl83b, McI86a, McI86b, NV82, PP85b, SS86a, Tho81, Zag87, Arn83, AB87a, BB82, BJVZ89, BT87, BS88b, BHN82, Bru85, CG88, CS87b, CES88, Egg84, Egg89, EN85, Fet81b, FP84b, Gla82, Gla87, Gra82, HS81, Ioa83, JS81, JN80, JM85, KP88, KS87, Lub83, Lub85, Lun83, McL86, Net80, PP85a, Sch81, Slo81, Tem86, Ven86, Zag88, vK83f, vK83g, vt85a, vt85b]. **Integrals** [Car87a, Car87b, Car88a, Car88b, Car89, Fet80, Fet84a, Gat80, Gla83, Hea85, KCL82, Lev82b, Lev83, Lin82, Lin86, BLL87, Car80, CM87b, DiD82, Fet81a, Fet81c, Fet81e, Fet82b, Fet82a, Hea86, HC81, Ioa85a, Ioa85b, IL88, Kru83, Las82b, LA82, LA84, Lev80, Lev82a, LW82, LCC88, LCC89, Mas83, Mas89, Mei85, Oke87, Oku83, Rab83, Rab85, Rab88b, Rab88a, RL89, Sid80b, Sid82a, Sid82b, Sid88, Sol86, TL81, WM81, vK82, Dav82]. **integrand** [LM80]. **integrands** [LR84, Rab86b, TL81, VL80]. **Integrating** [Cor80, Hab83]. **Integration** [Cas83a, Cas83b, CG88, CR82, Gla82, JP82, LS86, Mon86, Rab80, Rab83, Rab85, Rab86a, Rab86b, Rab88b, RL89, Sch81, SSO83, SM82, TL85, Che83].



**integration-collocation** [CG88]. **integrators** [Fat80]. **Integro** [Mil85a, Bru84, Bru89, Cha82b, Mak80, Mak81, TZ89, vt85a, vt85b]. **integro-differential** [Bru84, Bru89, Cha82b, Mak80, Mak81, TZ89, vt85a, vt85b]. **Integro-Exponential** [Mil85a]. **interesting** [Sha82b]. **Interfaces** [Ber85, Tre85]. **interior** [LS86]. **Intermediate** [LeV86]. **internally** [DM82a]. **interpolates** [Olm86]. **Interpolating** [HW84, Luc83a, Nie83]. **Interpolation** [CJW87, CDR88, Cos86, DL88a, Fra82, Loc81, Mar82b, Met86, SW86a, Wer84a, DEH89, EK89, Far86, FR89, HTN83, Has86, SW82b, WZ88, dD85]. **interpolatory** [CM87b]. **intersections** [LS85]. **interval** [Mon86]. **Intervals** [Mar82a, MS84, LS86, MR83a, Mat87, Ral83, Sch86, Slo81, SSO83]. **Invariant** [van88, Bru82, EM87, GR89a, Gir87]. **Invariants** [CL83]. **Inverse** [MZ88, II89, LC88]. **Inverse-average-type** [MZ88]. **Inverses** [DMS84]. **inversion** [ALS89, LG86]. **inversions** [Nie89]. **invertible** [Fie81]. **investigation** [BBG86, Wil81a]. **involutions** [WWL81]. **Involving** [GM85b, Lin86, Bai88b, BB82, Cos82, GM85a, Kat80, LW82, Net80, VL80]. **irrationalities** [WD84]. **irrationality** [Eas86]. **Irreducibility** [AO83, Bri80]. **Irreducible** [Dar86, PP80a, PP80b, PP80c, BBG82, Mar81, SW86b]. **Irregular** [Ger83c, KMS<sup>+</sup>86, Lev82a]. **irregularities** [Hud85]. **isolated** [Zul88]. **Isomorphisms** [Poh87]. **isoparametric** [Fie81]. **Isotropic** [DMG89a]. **Issues** [Min80b]. **Iterated** [Gfr87b, Gfr87a]. **Iteration** [Alf82, BB89, Pap83, BBG82, Vrs86, Cuy82]. **Iterations** [Hug86, BPST89, Hac80, HH88b]. **Iterative** [GK89, Ske80, BR82, BPS86b, EL89, Iga84, Mar80c, Mar81, Mie80, Mon88]. **IV** [BPS89, PP80b, vtW86]. **Iwasawa** [EM87].

**J** [Bac80, Bla82, Bri82, Che83, Fai84, Fet81b, Fet82a, Kel83a, Mei85, te 86c, te 86d]. **Jacobi** [BG84, CL84a, CL84b, Fer80, GN88, HJ81, KCL82, KE84, Lew85a, Lew86, Loc89]. **Jacobian** [Can87, DM82a, Fra81b, GT84, Kip84, Wri81a, Wri81b]. **Janeiro** [II89]. **Jbuch** [Stu81a]. **Johnson** [Bla82, Com89]. **Julia** [Vrs86]. **June** [GW84].

**Keast** [Fai84]. **kernel** [Mak81]. **Kind** [Car87a, Car87b, Car88a, Car88b, BJVZ89, BHN82, Egg84, Fet81b, Gla82, Gla87, Gra82, HS81, JM85, Lub83, Lub85, Oke87, Slo81, Spe86]. **Kirkman** [MPR81]. **Kleinian** [Gra83]. **Knot** [Mar82b]. **knots** [MNSS89, dS81b]. **Kolmogorov** [Puc89]. **Korteweg** [AW82, BDK83, DK85, Win80a]. **Kronrod** [Rab85, Rab88b, CGM86a, CGM86b, GN88, GR88, Rab80, Rab83, Rab86a]. **Krylov** [Saa81]. **Kutta** [BJVZ89, BHN82, Bru84, Cas83a, Cas83b, CS89, CS83a, DM82a, Kar86, Kee89, Lub83, Pia81, Sha86, Zen86, dW85a].

**L** [Ano88b, Bri82, GW84, Kni88]. **Lab** [Fet81b]. **lag** [Ana87]. **Lagrange** [Bra81, Pit80, Pit81, Wer84a]. **Lánczos** [ER80, PSS82, PTL85, Saa87, Sim84, Van82b]. **Laplace** [Kni88, ALS89, LG86]. **Large** [Bor81, Bre80, CW80, Ger83b, Har86, Kre86, Maj86b, Saa81, SW88a, Wei81, Zag87, Zag88, Dub89, ER80, Gal83, Gar89, Kel82c, Kel83b, Maj86a, PSS89, SWW83, Tad84a, Toi86, Wró84]. **large-time** [Tad84a]. **Largest** [PSS82, DL81, LS83]. **Larkin** [NS85]. **Last** [Sch83c, SW81, TW89]. **lattice** [FP85, LS89, SL89]. **Lattices** [PH84, PP85b, PP85a]. **law** [JS87b, Sze89]. **Laws** [Isa80, CS89, CM80, EO81, GL85, HTE81, Luc86a, Luc86b, OS82, OS83, OT88, San88, Shu87a, Shu87b, Spe87, Tad87, Vil88]. **Lax** [Tad84a]. **layer** [BSC<sup>+</sup>80]. **Leading** [Gfr87b, Gfr87a]. **Least** [AKS85, LS81, MW86c, Mil87, BL88, EGL80, Hag80, Hag83, Mit83b, Ste84a]. **least-change** [Ste84a]. **least-squares** [Mit83b]. **Lebesgue** [SW82b]. **Legendre** [Bau86a, Bau86b, DiD82, Fet85, Lac84]. **Lehmer** [Bri82, Shi19, LMO85, Rot82, Shi86, Spo84]. **lemma** [Mei85]. **Length** [CT86, EHGL89, FP85, Wil81a]. **Lenstra** [Was86]. **Less** [PP80c, GO82, KSW86]. **Level** [Yse86, AG83]. **Levine** [Sal84]. **Lie** [MP87]. **lifting** [Dja81]. **like** [Kel86, Leh88a, SS85, Vrs86, Ypm83]. **limit** [Boy84, TW83]. **Limited** [Noc80]. **line** [Egg89, SS86a]. **Linear** [DW83, Gek82, Kin83, Le 81b, Man80, Mee80, Olv88, Saa81, SS85, de 87, vt85a, vt85b, Ada87, AW89, BL88, Cas80, CT87a,



CR82, CR83, DM83, Dic80, EN85, EJ88, Fai84, GV87, Hal86, KFD83, Kin80, Lub85, Mar80c, Mon81, Neu87, NV88, Rab88a, RS82, RHD81, SL84, Ste86b, Tan88, WZ88, Wei84b, Zlá83, AW84]. **linearly** [Hof85]. **Liouville** [Gar84, Nas87, Pai82]. **Lobatto** [Rab86b]. **Local** [Pit80, Sar87, Wah84, Ypm83, dS81b, CS89, Eri85b]. **locally** [OS83]. **Logarithmic** [FM86, CS80b, CS83b, Sid80b]. **London** [Sal80]. **Long** [Löh89, PW85, Pri85, MR83a]. **look** [PTL85]. **look-ahead** [PTL85]. **low** [CTW89]. **Lower** [BN82a, BC89a, BC89b, EKS88, Par83, Wer84b, Let86]. **Lowest** [DL81]. **Lucas** [BW80, BMS88a, BMS88b, EKS88]. **Luke** [GW84]. **Lune** [te 86c, te 86d].

**M** [Bac80, Car80, Fet81c, Fet81e, Fet82b, Fet82a, Gra87a, Kel83a, Kru83, Sol86, vK82, Shi87]. **Machines** [Bra83, Wun85]. **Macmillan** [Sal80]. **magnetic** [Gar89, Zlá83]. **magnetization** [FP84b]. **magnetohydrodynamic** [JE82]. **magnetostatic** [Fri84, Pas84]. **Magnus** [Fet81d, Fet84b, KP88, Pex81, Tem81, vK83a, vK83c, vK83d, vK83e, vK83f, vK83g]. **Mahler** [Dea85]. **Majorizing** [Mie80]. **Mandelbrot** [Vrs86]. **Mandelbrot-like** [Vrs86]. **manifolds** [Rhe84]. **manipulation** [CD87]. **Many** [BB85b, WZ88]. **mapping** [Rei85]. **mappings** [GR89a]. **Markoff** [Zag82]. **Marti** [EN85]. **Mass** [Ano88b]. **Mat** [II89]. **Math** [AD88, Bac80, BCW82, Bla82, Bri82, Cha85, Fai84, Fet82b, Fet82a, Fra81a, Gra87a, GS80, Had82, Has86, Hea86, HH88b, Jae85, Kel82a, Kel82b, Kel82c, Kel83a, Kro80, LA84, Lew87, Mei85, Mor90, Per87, Phi87, Rab85, Rab88b, Sha82b, Ske86a, Vau84, Wil88, Zag88, te 86c, te 86d]. **mathematical** [Fet84b, Lon83, Pex81, Smi83, Tem81, vK83a, vK83b]. **Mathematics** [AMS84, Gau94, Gau94]. **Mathieu** [BR88]. **Matrices** [BP88a, Bun82, DMS84, Ger88, KE84, Noc80, Pap83, Ser80, BG84, Dic80, Fer80, Gal83, Ger83a, GT84, JS87a, Kal82, Mar81, PTL85]. **Matrix** [BC82a, DM82b, Hig86b, Bul80, BBG82, BC82b, EHGL89, EL89, Mar80c]. **Maximal** [Boy85a, Boy85b, PP80a, PP80b, PP80c, MNR89]. **Maximum** [Can88, WH83, DNW88, Sch80a].

**Maxwell** [Ben84a, Ben84b]. **May** [GW84]. **McClure** [Mei85]. **McGraw** [Fet81d, KP88, vK83c, vK83d, vK83e, vK83f, vK83g]. **McGraw-Hill** [Fet81d, KP88, vK83c, vK83d, vK83e, vK83f, vK83g]. **Mean** [BB89, FP84a, Mee80, Mey84, Smy84]. **Measure** [Boy80a, Boy89a, Boy89b, Smy81, Ziv82]. **measures** [Eas86]. **Media** [DR83, Ros83]. **medium** [Hof85]. **Meissel** [Shi19, LMO85, Shi86]. **Mellin** [FMPT84]. **memoriam** [GW84]. **Mersenne** [NN80, Wag83]. **Mesh** [BOP80, Ber85, Dup82, Mar82b, McC81a, Eri85b, Eri85c, Gar88c, Gol81, Jia87, Luc86a]. **mesh-refinement** [Eri85b]. **mesh-refinements** [Eri85c]. **Meshes** [MW86b, Bru85, Loc81, MW86a]. **Method** [Adl83, AB87b, BBP81, Bea86b, Ben84a, Ben84b, Bra84, BP89b, DMG89a, DMG89b, Gre86, Hig86b, LMO85, LL83b, McC81a, MT80, Pit80, Saa87, Tro80, VB81c, Wil82a, WF82, Alf80, AD82, AW82, Arn83, AB87a, AH81, BS88a, Bac80, BR82, Bea86a, BSC81, BHK84, BT87, BS88b, BG84, Bra81, BPS86b, Bre89a, BP89a, Bue84, CT87a, CN88, CS89, Com89, Cot87, CR83, Dja81, DW89, Dub89, EN85, ER80, Eri85b, Eri85c, EN87, EJ88, EM87, FO82, FG88, GL82, GR81, Gol80, Gol81, Gol82, Had82, Han82, HV89, Ioa83, JP86, JS87b, Kal82, KL85, Kin80, KS87, Kum88, Luc86a, Lun86, Lun80, Lus80, LR80, LG86, Mak80, Mak81, Mar80c, Mar81, MT86, McL86, Mei85, Mon88, Nak84, NS85, Nie83, Noc89, OS86b, OO84, PT85]. **method** [Pen81, Pit81, PS85, Por85, Puc89, Ric88, Rob89, Sch80a, SW83, Shi86, Shi19, Sid88, SS89, Sty80, SM82, Sze89, VB81a, VB81b, WT82, Wei84a, Wei86, WDS83, Win80a, Win81, WM81, Zul88]. **Methods** [AW83, AKS85, BOP80, BD89b, BLM89, BM82a, BS80, Bre82b, CGS89, Can88, Cas83a, Cas83b, Che83, Del89, DD86a, DD86b, DW83, DR83, Fra82, Gek82, Gir88, GK89, Got81a, Hei89, IN87, LS81, MORR81, Pas80, Pia81, Saa81, SS84, Sch84a, Sch84b, Ste84b, Tho81, Win80b, Yse86, Ana87, ALS89, AG83, BDS85, BD89a, BM82b, BJVZ89, BT87, BPST89, BK89, Bru84, Bru89, CG88, Cha82b, CGT88, CS80a, CS83a, CS87b, CES88, CR82, DHT81, DK85, DR85, Dut89, Egg84, Egg89, ET84, Eri85a, Fai84, FP85, Gla82, Gla87, GOT81b, Gra82, HK87, HS81, Iga84, Ise81, JN80,



JP82, JS86, JSW87, Kar86, Kat80, KFD83, KG82, Lay81, LO83, LeV86, Lub85, MR83a, Mie80, Mil85b, Mon87, Par80, PS83, Ros83, SSP85, SW85]. **methods** [Sar87, Sch85a, Sch86, Sha80, Slo81, Spi85, ST87, Tho80, TZ89, Tsu86, Wer80, Wer82, Wol83, Ypm83, Zen86, dS81b, de 87, vt85a, vt85b, von84]. **metric** [Bru82, Sha80]. **Microfiche** [BSSW87, NT87]. **Milne** [Sal80]. **Milne-Thomson** [Sal80]. **Mindlin** [BF86, Pie88]. **Minimal** [Gau81, Ana87, Las82a, Tsu86]. **minimization** [CGT88, Kiw85]. **Minimum** [PP85b, BC86, Lue89, Mar80b, Nie83, PP85a]. **minimum-norm** [Mar80b]. **Miscible** [DR83]. **Misstatements** [Sal80]. **Mixed** [BOP80, MORR81, Mil85b, Ste84b, de 86, BP88b, BP88c, DR85, JP82, PS83]. **Model** [DR83, Gar88b]. **models** [Tre85]. **modern** [Stu81a]. **modes** [DLR81]. **modest** [Gra83]. **Modification** [Dup82, LG86]. **Modified** [Wol83, BG84, Kro80, Las82b, SS86a, Tem86, TW80, Whi83]. **Modular** [CD88, Coh88, Mon85b, Que81, Coh82, CD87, LS85]. **Modulus** [Boy85a, Boy85b, CS80b, CS83b, ELT88, Fet81b]. **moment** [FW84, Wri84]. **moments** [FW84]. **Monotone** [Cos86, CM80, GR89b, BBG82, Egg89, Luc86b, San83, Spe87]. **monotonicity** [DEH89]. **monotonicity-** [DEH89]. **Monte** [Bue84, SL84]. **Mordell** [Ste86a]. **Morrison** [Bac80]. **Moving** [LS81, Luc86a]. **MR** [AD88, Ano88b, Bac80, Bla82, Bri82, Car80, Cha85, Che83, Dav82, Fai84, Fet81d, Fet81c, Fet81e, Fet81b, Fet82b, Fet82a, Fet84b, Fra81a, Gra87a, GS80, Had82, Has86, Hea86, HH88b, II89, Jae85, Kel82a, Kel82b, Kel82c, Kel83a, KP88, Kni88, Kro80, Kru83, LA84, Lew87, Lon83, Mei85, Per87, Pex81, Phi87, Rab85, Rab88b, Sal81, Sal84, SL85, Sha82b, Ske86a, Smi83, Sol86, Tem81, Vau84, Wil88, Zag88, te 86c, te 86d, vK82, vK83a, vK83c, vK83d, vK83e, vK83b, vK83f, vK83g]. **Multi** [Sch84a, Sch84b, Yse86, Hac80]. **Multi-Grid** [Sch84a, Sch84b, Hac80]. **Multi-Level** [Yse86]. **multidimensional** [Hig86a, JR82, Mic83, Noc89]. **Multigrid** [Bra84, BP87, MR83b, Spe87, Auz87, AG83, BPX88, Bre89a, PS85]. **multilag** [Wol83].

**multilevel** [BR82]. **multilinear** [WZ88]. **Multiple** [Gor87, HS81, Sil87, IL88, Jia87, LCC88, Mei85, SL89, Smi89, WM81]. **multiple-precision** [Smi89]. **Multiplication** [Ger88, Mon85b, McC86]. **Multiplications** [New86]. **multiplier** [Bra81]. **Multipliers** [Pit80, Pit81]. **Multistep** [DD86a, DD86b, Gek82, LN89, Maj86b, Ske86b, Ske86c, BPST89, KG82, Lub85, Maj86a, Ske86a, de 87, vt85a, vt85b]. **Multivariate** [CW83, CJW87, CDR88, AD88, DM83, Gra88, Olm86, vK85].  
**N** [Sal84, Stu81a]. **N.J** [vK86]. **Nagell** [PdW86]. **Nat** [Smi83]. **Natural** [BJVZ89, Zen86]. **Navier** [BDK82, BM81, FT84, Gev89, Gir88, JS86]. **near** [Mon86]. **nearest** [Jag82, WD84]. **Nearly** [Löh89, Ste86b]. **Negative** [Tho80, Gev84, Sey87]. **neighborhood** [Boy84]. **Neighborhoods** [Mos86]. **Néron** [TZ87]. **Nested** [Ana80]. **network** [Nie83]. **Neumann** [CT87a]. **Newton** [FR89, Hig86b, Luc83b, MT80, Noc80, ST87, Toi81, Wer84a, Ypm83, von84]. **Newton-like** [Ypm83]. **Nine** [PP80a]. **Ninomiya** [Has86]. **No** [Fet81b, AD88, BCW82, Bla82, Cha85, Fai84, Fet82b, Fra81a, Gra87a, Has86, Hea86, HH88b, Jae85, Kel82a, Kel82b, Kel82c, Kel83a, Kro80, LA84, Lew87, Mei85, Mor90, Per87, Phi87, Rab85, Rab88b, Sha82b, Ske86a, Vau84, Wil88, Zag88, te 86c, te 86d]. **nodal** [FT84]. **nodes** [Boj81]. **noisy** [GV87]. **nonaveraging** [Wró84]. **noncompact** [CG88]. **Noncomputable** [Bra83]. **Nonconforming** [CF89, Bre89a, Shi87]. **nondiagonally** [Toi81]. **nonexpansive** [San88]. **Noninteger** [Ste88]. **Noninterpolatory** [RL89]. **noniterative** [WT82]. **Nonlinear** [AJS83, BD89b, BE88b, DD86a, DD86b, ELS89, Kel86, Min80b, SS84, SH80, BD89a, BR82, BE88a, Bru89, Cuy82, DL88b, DRS85, ELT88, EO81, HK87, HS85, JS87b, LP86, Mak80, Mik89, OS83, Por85, San88, Sch84c, Sid80b, SF82, Tad84a, Toi86, Vér82, Vil88, Zlá83]. **nonlocal** [Luc86b]. **nonnegative** [BBG82]. **Nonnegativity** [DEH89]. **Nonnegativity-** [DEH89]. **Nonoscillatory** [CGS89]. **nonrandomness** [KLL88]. **Nonselfadjoint** [HT81]. **nonsmooth** [BPST89, CT87c, JLTW87, Kiw85]. **Nonstandard**



[Gir88]. **Nonstiff** [Cas83a, HTE81].

### **Nonsymmetric**

[Pap83, Saa84, SS85, BPX88, EN87]. **nontrivial** [Rei86]. **Nonuniform** [MW86b, Gol81, MW86a].

**nonzero** [Col82]. **Norm** [Par83, Akr85, DNW88, EL89, Gaá88, Lue89, Mar80b, Nie83, Tho80, Toi81].

**Normal** [BC82a, LS87, DLR81]. **Norms**

[BOP80, Dur87, Gev84, SH80]. **Note**

[Bri80, Bun82, HW84, Mar81, Rüc87, Wri81b, Bro84a, Cas80, Cas85, FW85, SB84, SN83, SM82, TW86, WZ88, Wri84]. **Nothing** [New86]. **Number** [BP81, BP89b, CM87a, CT86, Gor89, Hei89, HW82, KR89, Mon85a, SW88a, Tez88, YB88, van82a, AD88, Bru82, BW88, BW89, BP89a, CW87, Col82, CT89, DW85b, DF81, ELT88, EP86, Ger83a, Hag80, Hag83, Let86, McC84b, Rei86, SWW83, Set80, SW88b, TW86, Vau85b, WDS83, Wil88, Zag82].

**Number-Theoretic** [CT86, CT89]. **Numbers**

[Bor81, BH86, BC89a, BC89b, BSSW87, Ger83b, GM82, Hag81, IS86, Kis83, Kis84, Min80b, TW87, Wag83, Was87, te 81, AW89, BB88, Boy84, Bre82a, Bue84, Coh84, Dub89, Eas86, HP84, HHR<sup>+</sup>87, KLL88, Kel83b, Kis81, Kis85, KSW86, MP85, McD89, Mol87, Nie89, SW88c, Wag80, Zag82].

### **Numerical**

[AB80, Ana80, Bai88b, BF89a, Ben84a, Ben84b, BF86, Cas83a, Cas83b, Cha87, CM87a, Cuy82, Dem88, DR83, Fat80, FO82, Hig87, IIMPL81, II89, Le 81a, Le 81b, LO83, LP86, Lue89, MW86b, MZM89, Mis84, NT87, OO84, OS83, Ric81, Ros83, SS84, SB89, Sid80b, Sid82b, Ske80, SF82, Tad84b, Toi86, ATZ83, AJ81, BHK84, BT87, BS88b, Bör89, Bro84a, BK89, Bru85, Cha82b, Che83, CT87a, CS80a, CR82, DF83, Ell83, ER80, Fal83, Gal83, Gla87, HK87, Ioa83, Luc86a, LG86, MW86a, Mos89, Pie88, Sal81, Sch83a, Shu87a, Sid82a, Spi85, SM82, Tad87, Wei86, Wil81a, Zlá83, dS81a].

**Nyström** [BT87, BS88b].

### **O.D.E.** [dS81b]. **Oberhettinger**

[Fet81d, Fet84b, KP88, Kni88, Pex81, Tem81, vK83a, vK83c, vK83d, vK83e, vK83f, vK83g].

**Obrechhoff** [Ana87]. **obtained** [BC86]. **obtaining** [Spe86]. **Occurrence** [Bre80, YP89]. **OCl**

[BSC<sup>+</sup>80]. **Odd** [BN82a, BC89a, BC89b, Jam80, Kis83, Kis84, Kis85, BB88, Hag80, Hag83, Kis81].

**ODE** [Sha81, Sha82a]. **ODEs** [Cor80]. **off** [Ziv82].

**Office** [Lon83]. **Ohio** [Fet81b]. **Ojo** [Fet82a]. **old**

[Pri85]. **Olver** [Cas80]. **One**

[DD86a, DD86b, EO81, KE84, BS88b, Boy81, BW88, CW87, ET84, EN87, FM85, God84a, God84b, Hal82, Hof85, Kin80, Lev82a, Loc81, OS86b, SW83, SS88, Spi85, SW88b, TW86, TH86, Wer80]. **one-**

[Lev82a]. **one-dimensional**

[BS88b, Hal82, Hof85, OS86b]. **one-factorizations** [SS88]. **one-point** [Kin80]. **One-sided** [EO81].

**One-Step** [DD86a, DD86b, Spi85, Wer80].

**one-way** [TH86]. **onto** [CT87b]. **open**

[CES88, WWL81]. **Operations** [Min80a].

### **Operator**

[Par83, CG88, Fis88, FP84b, GV87, JE82, Neu87].

**Operators** [GGT87, DLR81, IIMPL81]. **Optimal**

[AJ81, Gfr87b, GT84, MS84, MT80, Tez88, TL85, Wer82, BD81, Boj81, Bre89a, Bru84, CN86, Dur87, Eri85a, Gfr87a, Gla82, Gla87, Ral83, RS82, Ric88, Ste86b, VB81a]. **optimal-order** [Bre89a, Ric88].

**Optimality** [SW82a]. **optimization**

[Luc83b, ST87, Tap88]. **Optimum** [AH81, Had82].

**orbit** [Gra83]. **Order**

[Bal84a, BD89b, BS80, BSSW87, Gar87a, GR89b, Jam80, KG85b, MW86b, Rus89, Sch84a, Sch84b, Swa89b, Ada87, AD82, AW84, BD80, BDK82, Bal84b, BDS85, BD89a, BD81, BM82b, Bre89a, Bru84, Cas80, CN88, CS82, DK85, DR85, DL81, Eri85a, Eri85b, Fai84, GL82, Gar87b, Gev84, Gui87, HTE81, Kar80, Kat80, KFD83, KG85a, Lus80, LR80, MW86a, MZ88, MNR89, MPR81, Mil85b, RHD81, Ric88, San88, Sch85b, Shu87b, Slo83, Spe87, SF85, SS86b, Swa89a, Vil88, Vrs86, Wei84a, Wei86, Wer82, Win81, dS81b]. **Orderings** [Ana80].

**Orders** [Poh87, Buc87]. **Ordinary**

[AV85b, Cas83a, Cas83b, DD86a, DD86b, Gfr87b, Maj86b, Alf80, AV85a, CS80a, CS83a, CR82, CR83, DHT81, FO82, Gfr87a, Hor80, Ise81, Maj86a, Sch83a, dS80a, dS81a]. **Orlicz** [Dur87].

### **Orthogonal**

[Gat80, Pai80, CQ82, EK89, Gau81, LS83, WT82].

**Orthogonality** [IN87]. **orthogonalization**

[Cyb83]. **Ortiz** [CR83]. **oscillating** [BLL87, IL88].

**oscillations** [Lev82a]. **oscillator** [IIMPL81].

**oscillators** [IIMPL81]. **oscillatory**

[Fat80, HC81, Oke87, Sch83a, Sid82a, Sid88, TL81].



**other** [Gol82]. **Outline** [Hag80]. **Overrelaxation** [Hug86, AH81, Had82, HH88b, Mar80c].

**P** [Ano88b, Che83, Fai84, Fet81c, Kel83a, Mei85, Pex81, Tem81, te 86c, vK83a]. **P**. [AD88, II89]. **P1** [Bre89a]. **Packing** [Boy82a]. **Padé** [Bre89b, Bul80, McC83, NZ82, Und86]. **Pairs** [te 84, te 86a, te 86b, BBG86, CS87c]. **paper** [AD88, II89]. **Parabolic** [BS80, HT81, Win80b, BPST89, CT87c, CTW89, Eld82a, Eld82b, HS85, JLTW87, Kar86, Kee89, Las86, NV88, Noc89, Soc86, Tho80, TZ89, Wer86b]. **parallel** [WW87, Wun85]. **Parameter** [CT89, Gfr87b, Gfr87a]. **Parameters** [Hab83, Rot82]. **parametric** [Tsu86]. **Parity** [BBG87]. **Part** [Ben84a, Ben84b, Ben83, BS80, Cas83a, Cas83b, DMG89a, DMG89b, Fet81b, PdW86, RHD81, WF82, de 86]. **Partial** [Mah81, Mah85, BW85, HLR88, LO83, LeV86, Phi80, RHD81, Sim84]. **Particle** [DMG89a, DMG89b, Puc89]. **Partition** [Mac80, BBG87]. **partitioned** [BPS86b]. **Partitioning** [MT80]. **Partitions** [Gup84, Col82]. **patterns** [Sha82b]. **Patterson** [Fet81b]. **Peaceman** [HV89]. **penalty** [CMSY83, KL85]. **pencils** [Mit83b]. **Penk** [Kel83a]. **Perfect** [BC89a, BC89b, Gor87, Kis83, Hag80, Hag83, Kis81]. **performance** [Wun83]. **Pergamon** [Sal84, SL85]. **period** [EHGL89, Wil81a]. **Periodic** [PW85, Ana87, BG84, Fer80, Hab83, Luc83a, TW83]. **Periods** [LL83a, PW85, Leh88b]. **permanents** [Kal82]. **Permutation** [BC82a, Lan81, BC82b]. **permutations** [Leo80, Spo84]. **Perron** [HJ81]. **Perturbation** [Gar88b, Stu81b, AW84, BSC81]. **Perturbed** [Gar87a, Gar87b, Gar88c, OS86a, OS86b, OO84, SW83, Wei84b]. **Peter** [Tha81]. **Petit** [Dav82]. **Petrov** [Sar87]. **phase** [Alf80, Ana87, CS80b, CS83b, JR82]. **phase-lag** [Ana87]. **physicists** [Fet81c]. **Physics** [II89, Fet84b, Pex81, Tem81, vK83a]. **Piecewise** [Cho82, Yan87, Bro84a, MNSS89, Mit83b, Rab88a, RS82, WZ88, dS81b]. **piecewise-polynomial** [Mit83b]. **Pisot** [Boy84]. **Pivoting** [Ser80]. **Pivots** [Cha84, Cha85]. **places** [Sal84, SL85]. **planar** [DF81]. **Plane** [MS87, BS88b, CM83, Cor80, Ell83, PS83, Rei85, Sch80a]. **plasma** [JE82]. **plate**

[Pie88]. **Plateau** [Tsu87]. **Plates** [BF86]. **Pocket** [Tha81]. **Poincaré** [Ioa85a, Ril83]. **Poincaré-Bertrand** [Ioa85a]. **Point** [Alf82, Gar87a, BHK84, Boy84, Fai84, FCM88, Gar87b, Gar88c, Kat80, KFD83, Kin80]. **Points** [BM82c, BT83, Zag87, AW84, FR89, Kum88, Zag88]. **pointwise** [JSW87]. **Poisson** [Bra84, FM86]. **pole** [Cor80]. **poles** [Mon86, Ste86b]. **Pollard** [Mon87]. **Pólya** [Lan81]. **polygonal** [Sch80a]. **polygons** [CS87b]. **Polyhedra** [AS86, Ril83, Spe86]. **polyhedral** [DF81]. **Polynomial** [DD86a, DD86b, DS80b, Gat80, GA81, KLL88, KG82, LL82, LV89, Mos86, NZ82, Sil87, Wer84a, AEM87, Boy82b, Ell83, Kim88, Mah85, Mit83b, Olm86, PT85, Rei85, SW82b, Wri85, Zul88, dS81b]. **Polynomials** [Ada84, BS89, Boy80a, Boy89a, Boy89b, Cho82, CS87a, CsAS87, How80, Lan81, Loc89, Mah82, Mal88, SW88a, AD88, AO83, Boy81, CZ81, CQ82, CT89, EK89, Gau81, Gir87, GO82, Iga84, Lew85a, Lew86, LS83, MNSS89, SSO83, vK85]. **population** [RHD81]. **Porous** [DR83, Hof85, Ros83]. **Posed** [Gfr87b, EN85, Gfr87a, Han82, Mar80b, Neu87]. **posedness** [TH86]. **Positive** [Man80, Pie84, Sha84, BBG82, Col82, EGL80, Gal83]. **positivity** [dD85]. **possible** [Net80]. **postage** [Mos81]. **Posteriori** [Gfr87b, VB81c, BW85, Gfr87a, Luc83a]. **postprocessing** [Com89]. **Potential** [BLM89, OHW85, Pas84]. **Power** [Eva83, GS89, Sha84, Boy81, ELT88, GL82, Sid80a]. **powerful** [SW88c]. **Powers** [Hud84, PdW86, de 86, Kip84, Leh88a]. **Practical** [Sha86]. **preassigned** [Ste86b]. **precision** [BM80, FW80, Fra81a, Rab80, Smi89]. **preconditioners** [BPS86a, BPS87, BPS88, BPS89]. **Preconditioning** [AG83, RW84, BP88b, BP88c]. **predictor** [JM85]. **predictor-corrector** [JM85]. **Prentice** [vK86]. **Prentice-Hall** [vK86]. **Prescribed** [CT86, PP85b, Fer80, PP85a, SS88]. **Presence** [Yse86]. **preserving** [DEH89]. **Press** [Ano88b, Car80, Che83, Fet81e, Fet82a, Kru83, SL85, Sol86, Stu81a, vK82]. **pressure** [CN86]. **Primality** [AS82, AL81, CL84a, CL87a, CL87b, Pom87, Tem80, WD86, Bre82a, Bri82, KSW86, PSS89, Wil87]. **Prime**



[Bre80, Goe88, Jam80, PdW86, Wei81, YP89, de 86, te 81, Hag80, Hag83, KP89, Kis85, McC84b, Wun83]. **prime-testing** [Wun83]. **Primes** [Bor81, BCP82, CW80, GLS87, Kel83a, LM81, Löh89, Mor89, NN80, Pri83, HP84, Hud85, Kel82a, Kel82c, Kel83b, Mor90, PSS89, Pri85, Sha82b]. **Primitive** [Coh84, Lan81, LS87]. **Principal** [Wil82b, BW87, BW88, CM87b, Ioa85b, Mas89, Oke87, Rab83, Rab85, Rab88b, Rab88a, RL89]. **Principle** [Can88, Sch80a, dS80a]. **Printing** [Lon83]. **priori** [BHK84]. **probabilistic** [Sey87]. **Probability** [Dem88, KP89]. **probable** [KP89]. **Problem** [AK81, Ben84a, Ben84b, Dem88, Gar87a, Gar88b, KP87, Ste86a, Ste84b, Auz87, BCW81, BCW82, BSC81, BHK84, BR85, Bra81, Bul80, Coh82, CF89, DW89, DNW88, FM86, Fri84, Gar87b, Gui87, II89, JR82, Mos81, OS86a, OS86b, Pas84, Pie88, PS85, SW88c, Tsu87, Wei84a, Whi83, WWL81]. **Problems** [AV85b, BS80, Cas83a, Cas83b, Gfr87b, GR89b, MW86b, Mar82a, Mic87, Saa84, Wer86a, Win80b, Alf80, Ana87, AW84, AV85a, BO89, BSC<sup>+</sup>80, BL88, BPS86a, BPS86b, BPS87, BPX88, BPS88, BP88b, BP88c, BPS89, BPST89, CMSY83, CT87a, CGT88, Cos82, DRS85, Dut89, DF83, EG87, ER80, ET84, Eri85a, EN87, EJ88, Fai84, Gar84, Gar88c, Gfr87a, GT81, GT85, GT87, GOT81b, HK87, HH88a, Han82, HTE81, HV89, JS85, Kar86, Kat80, KFD83, Las86, LC88, Lun86, MW86a, MR83a, MZ88, Mar80b, Mat87, Mic83, Mil85b, Mit83a, Mos89, Mun81, Nas87, NV88, Noc89, OO84, Par80, SW83, Sch85a, Sch86, Spi85, Tho80, Wei86, Wei84b, Wer82, Wer86b, Win81, dW85a]. **Procedures** [Bre89b, Lev82a]. **process** [BD81]. **processes** [DM82a]. **processing** [Cyb83]. **producing** [Dub89]. **Product** [BBG88, CG88, Sch81, SSO83, CM87b, LS86, Mas89, Sch84c, Sto81]. **Products** [AB80, Hud84, PdW86, de 86, Car80, Fet81e, Fet82b, Fet82a, vK86, Kru83, Sol86, vK82]. **programming** [DF83, Mon81, SN83]. **Progression** [Pri83]. **progressions** [Hud85, McC84b, Pri85, Rot82]. **Projection** [CT87b, SW82a, CS89, Par80, dS81b]. **Projections** [Wah84, Jia87]. **proof** [Hag80, Hag83, dD85]. **Proofs** [Pom87, Bre82a]. **propagation** [EG87].

## Properties

[Kel82b, Lew86, BF88, Egg84, FP84b, IIMPL81, Lew85a, LS89, Pie88, Shi84, Und86, Wer82]. **Property** [Gla83, AD88]. **Prove** [CD86]. **Pseudo** [Pas80]. **Pseudoprimes** [BW80, EKS88, Gor89, MM89, PSW80, Pom81, Ada87, McD89, Rot82]. **Pseudorandom** [Tez88, AW89, EHGL89, ELT88, Nie89]. **Pseudospectral** [Got81a, FG88, GOT81b]. **Pseudospectral-Chebyshev** [Got81a]. **pulse** [LC88]. **pulse-spectrum** [LC88]. **Pure** [WCS80, TW86, Wil80c, WDS83]. **pyramid** [Spe86].

## QR [Ste84c]. Quadratic

[Bue87a, DL88a, Del89, Ger83b, KR89, Mit83b, Sch83b, Sil87, de 86, AEM87, Bue84, CT87a, CW87, DF83, Fie81, LQ88a, Mol87, Rei86, Sey87, SW88b, TW86, Vau83, Vau84].

**Quadratic-Exponential** [de 86]. **Quadratically** [BB86]. **Quadrature**

[CGM86a, CGM86b, FO86b, FO86a, För87, GM85b, GR88, Ise81, LM80, Mon86, Oke87, Slo81, Xu89, Akr85, BN82b, Boj81, BS84, Che82, Dyn84, Egg84, GM85a, GN88, HTN83, Has86, Ioa85a, Ioa85b, LR84, Lun83, Sid80b, Sid82b, SL89, Ven86, VL80].

**Quadratures** [KE84, Rab88a]. **quadrilateral** [Shi84]. **Quartic**

[Ada84, Str89, Buc87, BW87, BF89b, BPv89, God84a, God84b, HHR<sup>+</sup>87, Set80, Vau85a].

**Quartically** [Bai88a]. **Quasi**

[Dur87, Le 81b, Mic87, Noc80, SW82a, WH83, Luc83b, ST87, Toi81]. **Quasi-Initial-Boundary**

[Mic87]. **Quasi-Linear** [Le 81b]. **Quasi-Newton** [Noc80, Luc83b, ST87, Toi81]. **Quasi-optimal**

[Dur87]. **Quasi-Optimality** [SW82a].

**Quasi-Smooth** [WH83]. **quasilinear** [Mil85b].

**quasiperfect** [Kis81]. **quasistationary** [Zlá83].

**Quaternary** [Hud84]. **quick** [PSS89]. **Quintic**

[SW88a, DEH89]. **Quotient**

[Leh81, MMM88, Sto80, McC83].

**Quotient-Difference** [Sto80, McC83].

**R** [vK86, Kel82a, Kel83a, Mei85, Pex81, Tem81, te 86c, vK83a]. **Rabinowitz** [Che83]. **Rachford** [HV89]. **Radau** [Rab86b]. **Radii** [Boy82a]. **Rado**



[Bra83]. **Ramanujan** [BBG86, PdW86]. **Random** [Mar80a, Mon85a, AEM87, KP89, Puc89, Rob89]. **range** [Mos81, Sid82b]. **Rank** [Kre86, BW88, BGZ85, FM85, LS89]. **rank-** [LS89]. **Rapid** [Shr85, Lev82a, WDS83]. **rapidly** [BLL87, IL88, McC81b]. **Rate** [Boy80b, Bra84, DW81, Far86, Boy81, Boy82b, DRS85, Eri85b, Pen81]. **rate-of-convergence** [Boy82b]. **Rates** [BM81, DMS84, Gfr87b, LR84, Luk88, Rab86b, Gfr87a, Sch84c]. **Rational** [Bla82, Hea85, Hea86, IN83, Lar80, SW86a, WBR82, Dic80, EK89, Mah85, Ste86b, Vrs86]. **Rationals** [HW84]. **ratios** [TW80]. **reaction** [Gal83, OS86b, SW83]. **reaction-diffusion** [Gal83, OS86b, SW83]. **Real** [EMT85, ET85b, Gra87b, LO82, SW88a, Smy84, van82a, BF89b, BPv89, CS82, CS87c, Gau83, LQ88b, SWW83, Smy81, SW88b, TW86]. **Reciprocal** [Boy80a, Boy89a, Boy89b, FW84, Wri84]. **reciprocals** [Wr684]. **reconstructing** [BG84]. **recovery** [CN86]. **rectangle** [AW89]. **rectangles** [DL81]. **rectangular** [RHD81]. **Recurrence** [DiD82, Hor80, Kro80, Lew85b, Lew87, Olv88, PdW86, de 86, Gau81]. **recurrences** [Ada87]. **Recursive** [Bul80, CR83]. **reduced** [CS80b, CS83b, JP82, Por85]. **Reduction** [RW84, VB81c, VB81a, VB81b]. **Reentrant** [Wah84]. **Refinement** [Ber85, McC81a, Ske80, Eri85b]. **refinements** [Eri85c]. **regions** [BPS86b, WT82]. **Regression** [LL82]. **regular** [Gar84, HP84, Nas87, Olm86]. **Regularity** [Wer84b, CTW89]. **Regularization** [Gfr87b, ALS89, FCM88, Gfr87a]. **Regularized** [Luk88, Bör89, Neu87]. **Regulator** [WCS80, CMSY83, Wil80c, WDS83]. **Reissner** [BF86]. **Related** [BM82c, GW85a, FW80, Fra81a, GW85b, Gra87a, JP82, Loc81, McD89, Wer86b]. **relating** [Oku83]. **Relations** [Olv88, BF89a, DiD82, Gau81, Hor80, Kro80, Lew85b, Lew87]. **Relative** [Ziv82]. **relatively** [Hag83]. **Relaxation** [Bra84]. **remain** [DM82a]. **Remark** [Mei85, Tza86, AD88]. **Remarkable** [Gla83]. **Remarks** [PP80b, Was86, Vér82]. **reorthogonalization** [Sim84]. **Rep** [Fet81b]. **repeated** [Mah85]. **Representation** [Ste88, SL89].

**Representations** [Ral83]. **Res** [Fet81b]. **Residue** [Eva83, Len84, Mac80]. **residues** [WW87]. **Resolution** [Har86, Gaá88]. **Respect** [Bau86a, Bau86b]. **restrictions** [Spi85]. **result** [OS86a]. **Resultants** [LL87]. **resulting** [BP88b, BP88c]. **Results** [Wil81b, van88, Bai88b, BF89a, BBG87, CQ82, Ioa83, LP86, Rab88a, SW88c, VB81b]. **Review** [Tha81]. **Riele** [te 86c]. **Riemann** [te 86c, te 86d, Apo85, BvtW82, Eli86, Leh88a, vt83, vtW86]. **Right** [Saa87]. **Right-Hand** [Saa87]. **Riley** [Gra83]. **Ring** [GW85a, GW85b, Gra87a, KBF87]. **rings** [Mah80, von84]. **Rio** [II89]. **Robust** [Shr85]. **roles** [Par80]. **Root** [Hig86b, Lar80, Mos86, NS85]. **Root-Finding** [Lar80]. **Rootfinder** [Shr85]. **rootfinding** [Kim88]. **Roots** [Bau86a, Kel86, MT80, Sch85c, Bau86b, PT85]. **rotating** [DLR81]. **Rotkiewicz** [KP87]. **rough** [Las86]. **round** [Ziv82]. **round-off** [Ziv82]. **row** [JS87a]. **rule** [CM87b, Ven86]. **Rules** [SSO83, BS84, Ioa85a, Ioa85b, LS86, Lun83, LS89, Rab80, Rab83, Rab85, Rab86a, Rab86b, Rab88b, RL89, Sid80b, Sid82b, SL89]. **Runge** [CS89, BJVZ89, BHN82, Bru84, Cas83a, Cas83b, CS83a, DM82a, Kar86, Kee89, Lub83, Pia81, Sha86, Zen86, dW85a]. **Russian** [Car80, Fet81e]. **Ryzhik** [Fet81e, Fet82a, Kru83, Sol86, vK82]. **Ryzik** [Fet81e, Fet82b, Car80].

**S** [AD88, Car80, Fet81e, Fet82b, Fet82a, Fra81a, Kel82b, Kru83, Sol86, vK82]. **Sadiku** [Fet82a]. **Salamin** [New85]. **Sander** [Shi84]. **satisfying** [EO80, OHW85]. **scalar** [CM80, GL85, JP86, Luc86b, OT88, Pas84, Sze89, Tad84a]. **Scaled** [Ste84c]. **scales** [Sch85a]. **Scan** [CD86]. **Scattered** [Fra82, Nie83]. **Scattering** [AK81, BLM89]. **Scheme** [Gar88b, GT81, Har86, Kel86, Gev89, HTE81, Hof85, NV88, San88, Slo83, Tad84a, Van82b, Whi83, Zlá83]. **Scheme-independent** [GT81]. **Schemes** [Gar87a, HT81, JT81, KG85b, KMS<sup>+</sup>86, Le 81b, Lor86, BSC<sup>+</sup>80, Gar87b, Gar88c, Gev84, GL85, Hal82, JM85, Kar80, KG85a, Luc86b, Mos89, Mun81, OS82, San83, Sch85b, Shu87b, Soc86, Sta81, Swa80, Tad84b, Tad87, Vil88, Wei84b, dW85a]. **Schröder** [Vrs86]. **Schrödinger** [IIMPL81, SS84].



**Sci** [Phi87]. **Secant** [DM82b, Ste84a, Tap88].  
**Second** [Bal84a, BD89b, Bue87b, Car87a, Car87b, GM84, KG85b, MW86b, Sch85b, Swa89b, BD80, Bal84b, BDS85, BD89a, BJVZ89, BHN82, Cas80, DR85, Fai84, Fet81c, Fet84b, Gev84, Gra82, HS81, JM85, Kar80, KFD83, KG85a, KG82, Lub83, Lub85, MW86a, MZ88, Mil85b, RHD81, Slo81, Spe87, Swa89a, Wei84a, Wei86, Wer82].  
**Second-Order** [BD89b, KG85b, MW86b, Swa89b, Sch85b, BD80, BDS85, BD89a, Cas80, Fai84, Gev84, Kar80, KG85a, MW86a, MZ88, Mil85b, Spe87, Swa89a].  
**section** [SS86a]. **Sectors** [CS87a, GO82, CsAS87].  
**segmented** [OO84]. **segmented-adaptive** [OO84]. **Seidel** [Bra84]. **selected** [Gar84].  
**Selection** [Del81, VB81a]. **self** [LS85].  
**self-intersections** [LS85]. **selfadjoint** [BO89, MZ88]. **Selfridge** [Bri82]. **semi** [SN83].  
**semi-infinite** [SN83]. **semiconductor** [Zlá86].  
**semicontinuity** [HLR88]. **Semidiscrete** [Bal84a, Bal84b, HT81, Par80, TZ89].  
**semidiscretizations** [JS85]. **Semigroups** [WWL81, HLR88]. **semilinear** [CT87c, CTW89, JLTW87]. **Seminar** [II89].  
**semisimple** [MP87]. **separably** [Alf80].  
**Sequence** [Boy82a, Del81, Mah82, GS80, Kel82b, NS84, Sid80b]. **Sequences** [Kin83, PdW86, de 86, EHGL89, MP85, Mie80].  
**serial** [Nie89]. **Series** [Boy80b, BC82a, Fra81b, GM85b, Lav87, NT87, Pie84, Scr88, Sha84, Wri81a, Wri81b, AJS83, Boy81, Car80, Cyb83, Ell83, Fet81e, Fet82b, Fet82a, GL82, GM85a, vK86, Hor80, Kip84, Kru83, Lav86, Lev80, LCC88, LCC89, McC81b, NS84, Phi80, Sid80a, Sol86, vK82]. **set** [FT84, Leo80, Wró84].  
**Sets** [Bro85, Eva83, Lag83, Lun88, GR89a, Ger83c, PSS89, Toi86, Vrs86, Wag80]. **Several** [Saa87, Hab83]. **Sextic** [EMT85, Gra87b].  
**Shamanskiĭ** [Kel86]. **Shamanskiĭ-like** [Kel86].  
**shaped** [Dja81]. **Shapiro** [Tro85, Tro89]. **Sharp** [CMSY83, DNW88, Sch84c]. **Sharpening** [Swa89b, Swa89a]. **Sharpness** [Wah84]. **sheeted** [LS85]. **Shepard** [Far86]. **shift** [NS85]. **Shock** [CGS89, ELS89, Lor86, Sze89]. **shock-capturing** [Sze89]. **shocks** [Kar80]. **Shooting** [MS84, Tro80].  
**Short** [LL83a, Pom87, FP85]. **side** [Swa80]. **Sided**

[Mar82b, EO81]. **Sides** [Saa87]. **Sierpiński** [BCW82, BCW81]. **Sieve** [Ger83b, Sil87]. **Sign** [KE84, te 87]. **signal** [Cyb83]. **signature** [God84a, God84b]. **similar** [BBG87]. **Simple** [Yam86b, CGT88, Kum88, PS85, Wun83, Yam86a, Zul88]. **Simplest** [Was87]. **simplex** [Gra88, LM80, Olm86]. **Simplified** [LL82, LL83b, New85]. **Simulation** [MR83b].  
**simultaneously** [PT85]. **Sinc** [Kea83, Lun83, BS88b, Lun86]. **sines** [Sal84, SL85].  
**Single** [Bal84a, BS80, ADT81, Bal84b, San88, IIMPL81].  
**Singular** [Gar88b, Kel86, Ste84c, Tho81, AW84, BSC81, BS88b, Bru85, ET84, Eri85a, EN87, HC81, Ioa83, JS81, LR84, Mak81, Nas87, Rab86b, Sch81, TL81, Ven86, Wei84a, Wei86, dW85a].  
**Singular-Perturbation** [Gar88b]. **Singularities** [MMM88, Yse86, Gra82, LS86, LM80, Sid80b].  
**Singularly** [Gar87a, Gar87b, Gar88c, OS86a, OS86b, OO84, SW83, Wei84b]. **Six** [GM82, PH84, GO82]. **Six-Dimensional** [PH84].  
**sixth** [Kat80]. **size** [JM85]. **Sizes** [Maj86b, Gol81, Maj86a]. **Sketch** [Hag83]. **Skew** [Bun82]. **skipping** [Alf80]. **Small** [Boy80a, Boy89a, Boy89b, Cha84, BF89b, Cha85, God84a, God84b].  
**smallest** [Jae83, Jae85]. **smear** [JSW87]. **Smooth** [CW83, Swa89b, WH83, BS88b, BPST89, Bro84a, Swa89a]. **Sobolev** [ADT81, CQ82, DS80b]. **Soc** [II89]. **solenoidal** [Fri84]. **Solution** [Dic80, MW86b, Mis84, SS84, Wil80a, Alf80, ADT81, BT87, BS88b, Bör89, Bro84a, Bru85, Cas80, Cha82b, Cha87, CS80a, Cuy82, DF83, Eld82a, Eld82b, ER80, FO82, Gal83, Gla87, Gre82, HS81, Ioa83, JS81, LP86, Lun80, MW86a, MZM89, OO84, Pie88, Por85, Sch83a, Sch86, Spe87, Spi85, Toi86, Tsu87, Wei86, WWL81, Zlá83, Zlá86].  
**Solutions** [Hud84, Luk88, McI86a, McI86b, Str89, Zaj83, Auz87, BL88, CL84b, FT84, Gau81, Hor80, Lue89, Mar80b, Mat87, Neu87, Puc89, Shu87a, SJI85, Vér82, Wri85, Zul88]. **solvability** [Mol87].  
**Solving** [AEM87, Le 81b, Saa81, Saa84, SS85, Saa87, Yse86, BD81, CGT88, DL88b, EN85, Gol82, Hil82, Ven86].  
**Some** [BW85, BBG88, Bor81, BM80, Bre82b, CW80, Dud87, Fet80, Fra82, Gat80, HT81, Kel82c, Ker83, Lav86, Lav87, Le 81a, LS89, McD89, Mey84,



MS87, Oku83, Pai80, PW85, Que81, RS82, SW86a, Scr88, Sha86, Sha82b, SW88c, Und86, Vér82, VB81b, Was86, Wil81b, BR85, Bre82a, Bue84, Com89, DK85, Fet81a, FW80, Fra81a, FW85, JP82, KLL88, MZM89, Mos89, Nak84, PS83, Pri85, Sar87, SW86b, Sid82b, Wil87]. **Soni** [Pex81, Tem81, vK83a]. **SOR** [EL89]. **Space** [PH84, AD82, ADT81, AM89, ET84, EN87, Fri84, Gra83, LC88, OS83, Sze89]. **space-time** [LC88]. **Spaced** [LL82, For88]. **Spaces** [CH89, CT87b, SW82a, Wah84, CQ82, DS80b, Vér82]. **spacings** [Odl87]. **sparse** [DL88b, ER80, Luc83b, Sha80, Ste84a, Toi81]. **spatial** [San83]. **spatially** [CTW89, JLTW87, Ric81]. **Special** [Gra87b, How80, Mah82, AH81, Fet84b, Had82, Lue89, McD89, Pex81, Spe86, Tem81, vK83a]. **spectra** [Fer80]. **Spectral** [CGS89, Can88, FP84b, Hei89, NOPEJ87, Pas80, Dut89, ER80, IIMPL81, McL86]. **spectrum** [DLR81, Fis88, JE82, LC88]. **speed** [Jag82, Wil80c]. **Speeding** [Mon87]. **Spline** [CW83, Cos86, Mar82b, Arn83, SW85, dD85]. **spline-trigonometric** [Arn83]. **Splines** [CJW87, CDR88, DL88a, Met86, BC86, CH84, DM83, Gra88, JS81, Jia87, LA82, LA84, Luc83a, MNSS89]. **split** [LeV86]. **Splitting** [Ada84, BM81]. **splittings** [LO83]. **Sporadic** [Yam86b, Yam86a]. **Springer** [Fet81c, Fet84b, Kni88, Pex81, Sal81, Tem81, vK83a]. **Square** [Bro85, Hig86b, Sch85c, Lag83]. **squared** [DL81]. **Squares** [AKS85, Bue87b, LL86, LS81, MW86c, BL88, DL81, EGL80, Lag83, Mil87, Mit83b, Shi86, Shi19, Ano88b]. **Stability** [Ana80, Ber85, CT87b, Dut89, Got81a, GOT81b, Hic81, HV89, Le 81a, Le 81b, Maj86a, Maj86b, Mic83, Pia81, Pit80, Ske80, Tre85, CR82, Cuy82, Elm86, Fis88, GT81, GT85, GT87, JE82, Par80, Sch80a, Spi85]. **stabilized** [DW89]. **Stable** [Bun82, EO80, Gek82, Sha81, Sto80, Ana87, DM82a, FM85, GL85, Gra88, Noc89, Sha82a, Tad87, Win81]. **stamp** [Mos81]. **Standards** [Smi83]. **State** [Bra83, EG87]. **States** [BB85b]. **Stationary** [Lor86]. **statistics** [Bue84]. **Steady** [BB85b, EG87, Kar80]. **Stefan** [JR82, Whi83]. **Steiner** [MPR81, SF85, SS86b]. **Stenger** [BN82b]. **Step** [Bal84a, BS80, DD86a, DD86b, Har86, IN87, Maj86b, Bal84b, JM85, Maj86a, Spi85, Wer80]. **Stepsize** [Ske86b, Ske86c, Spi85]. **Stieltjes** [BB82, BF88, Boy82b, Cha80]. **Stiff** [Cas83b, Maj86b, Alf80, CS83a, Fat80, Ise81, Maj86a, OO84]. **stochastic** [Cha87]. **Stokes** [BDK82, BM81, BR85, CF89, DW89, DNW88, FT84, Gev89, Gir88, Gui87, JS86, KL85, PS85, Ste84b]. **Stolarsky** [Ste86a]. **Storage** [Noc80, SL84]. **stream** [CN86]. **Streamline** [JS86, JSW87, Sze89]. **Stretching** [Bea86b, Bea86a]. **strictly** [Mar80c]. **strip** [BvtW82, te 86c, te 86d, vt83, vtW86]. **Strong** [AS82, Leo80, Rot82]. **strongly** [HTE81, Sar87]. **structure** [BR88]. **structures** [Rei86]. **Struve** [New84]. **study** [Fai84, GN88, KFD83, Vrs86]. **Sturm** [Gar84, Nas87, Pai82]. **Subcycling** [Hic81]. **subgroup** [BR88, LQ88a, Sto81]. **Subgroups** [BC82a, PP80a, PP80b, PP80c, Sto81]. **Subset** [Lun88]. **Subset-Sums** [Lun88]. **Subspace** [Saa81]. **substructures** [BPS86b]. **substructuring** [BPS86a, BPS87, BPS88, BPS89]. **subsystem** [SS86b]. **success** [Bue84]. **successive** [Pen81]. **Succinct** [Bre82a]. **such** [Jae83, Jae85]. **Sufficient** [AS82]. **Sum** [Min80a, EGL80, Lag83, Leh88a, Wró84]. **Summation** [GM85b, Lav87, Sch83c, GM85a, Phi87]. **Summations** [Gla81]. **Sums** [CL84a, Hud84, Lun88, JS87a, Shi86, Shi19, SL89]. **Superconvergence** [ADT81, Kum88, LN89, OS86a, Tho80]. **superconvergent** [AW82]. **superlinear** [ST87]. **Superspline** [CH89]. **Supplement** [AB87b, AV85b, Bal84b, BD89b, Bau86a, Bea86b, Boy85b, Boy89b, BE88b, BC89b, BMS88a, BP89b, BSSW87, CGM86b, Car87a, Car88a, CL87b, CsAS87, DD86b, FO86b, Gar87a, GM85b, Gfr87b, GW85a, KG85b, Maj86b, MW86b, McI86b, NT87, PP85b, Sch84b, Ske86c, Swa89b, Yam86b, te 86b, vt85b]. **Supra** [KMS<sup>+</sup>86]. **Supra-Convergent** [KMS<sup>+</sup>86]. **surface** [LS85]. **Surfaces** [LS81, KBF87, Tsu86]. **surprising** [AD88]. **Swan** [FHS86]. **Swinnerton** [BGZ85]. **Swinnerton-Dyer** [BGZ85]. **Sylow** [LQ88a]. **symbolic** [CD87]. **Symm** [CES88]. **Symmetric** [Bun82, Saa87, Ser80, Swa86, ER80, MNR89, Ste84a]. **symmetrical** [Phi87].



**Symmetrization** [Lun86]. **Symposium** [Gau94]. **system** [Cuy82, Gar89, Wri85]. **Systems** [AKS85, BE88b, Hud84, Man80, Saa81, SS85, Saa87, AW84, BP88b, BP88c, BE88a, CR82, CR83, DL88b, FO82, Gal83, HS85, Ise81, Lus80, Mar80c, MPR81, OS82, Rhe84, SF85, SS86b, Tad83, Tad87, Vil88, Wer80, Win81, Zul88].

**T** [Has86, Stu81a, te 86c]. **Table** [Ano88b, Bac80, Bau86a, Bri82, Car87a, Car87b, Car88a, Car88b, Car89, Car80, Che83, Dav82, Fet81d, Fet81c, Fet81e, Fet81b, Fet82b, Fet82a, Fet84b, vK86, Kel82a, Kel82b, Kel82c, KP88, Kni88, Kru83, Lon83, Pex81, Phi87, Sal84, SL85, Smi83, Sol86, Stu81a, Tem81, vK82, vK83a, vK83c, vK83d, vK83e, vK83b, vK83f, vK83g, CS87c, McC83, WZ88]. **Tables** [Bau86b, Ben83, BMS88a, BMS88b, Dav82, KP88, Kni88, SL85, vK83f, vK83g, Lon83, Smi83, vK83b]. **tangent** [Ven86]. **Tate** [TZ87]. **tau** [CR83, OO84, FO82]. **Taylor** [Fra81b, Scr88, Wri81a, Wri81b]. **te** [te 86c, te 86d]. **Technique** [Man80, BP88b, BP88c, CN86, Cyb83, LC88, Mah81]. **Techniques** [AV85b, Pai80, Saa84, AV85a]. **Ten** [PP80c, Sal84, SL85]. **term** [Gau81, McC84b]. **Terminal** [MMM88]. **termination** [Iga84]. **Test** [CL87a, CL87b, Nie89, Shi87]. **Testing** [AL81, Bri80, CL84a, CGT88, AO83, BW87, Wun83]. **Tests** [AS82, Fra82, KSW86, PSS89, Wil87]. **th** [NN80]. **their** [BJVZ89, Gir87, Ioa85b, Lag83]. **Theorem** [Mee80, Mic87, Tza86, Boy82b, FHS86, McC84b, Ril83, SSP85, TW89, Sch83c, SW81]. **theorems** [Fet84b, Mah80, Pex81, Tem81, vK83a]. **Theoretic** [CT86, CT89, VB81b]. **Theory** [DD86a, DD86b, BHN82, Ger83a, Gir87, GV87, Las86, Lub83, Mic83, SSP85, Stu81b]. **there** [BB88]. **Theta** [Par83, BBG87]. **thing** [dS80a]. **Third** [Car88a, Car88b, Ada87, Gui87, Pex81, San88, Tem81]. **third-order** [Ada87, Gui87, San88]. **Thomson** [Sal80]. **thousandths** [Sal84, SL85]. **Three** [BM82a, BM82c, Sch83c, te 81, AJ81, BB88, BM82b, Gau81, Gui87]. **three-term** [Gau81]. **Thue** [Str89]. **Tikhonov** [Gfr87a, Gfr87b, Neu87]. **Tikhonov-regularized** [Neu87]. **Time**

[Bal84a, Ben84a, Ben84b, DW83, Eld82a, Eld82b, Har86, HT81, AEM87, AD82, AM89, Bal84b, BDS85, CT87c, Cyb83, Gal83, Gev89, Kar86, Kee89, LeV86, LC88, OS83, Sch85a, Tad84a]. **Time-Dependent** [Bal84a, HT81, DW83, Bal84b, BDS85, Kar86, Kee89]. **Time-Harmonic** [Ben84a, Ben84b]. **time-split** [LeV86]. **Time-Step** [Har86]. **Toeplitz** [BP88a, Dic80]. **Torii** [Has86]. **torsion** [Rei86]. **total** [dD85]. **Totally** [ET85b, Smy84, Buc87, BW87, BF89b, BPv89, CS87c, LQ88b, Smy81]. **transcendence** [Bai88b]. **Transcendental** [Mis84, Fet81d, KLL88, vK83c, vK83d, vK83e]. **transform** [ALS89, For81, LG86]. **Transformation** [NOPEJ87, ER80, Sid80a]. **Transformations** [Del81, AJS83, CD87, Fie81, NS85, Sid80b]. **Transforms** [CT86, FMPT84, BB82, CT89, FW85, KP88, Mah80, vK83f, vK83g, Kni88]. **transient** [Alf80]. **translates** [Loc81]. **translation** [Car80, Dav82, Fet81e]. **transonic** [EO80, Fis88, Mos89, OHW85]. **trapezoidal** [Wei84b]. **treatment** [Shu87a]. **Triads** [LL86]. **Trial** [Mon85b]. **Triangles** [Adl83, Sty80]. **triangular** [FM85]. **Tricomi** [Fet81d, KP88, vK83c, vK83d, vK83e, vK83f, vK83g]. **Trigonometric** [Fet80, Fet84a, Arn83, Fet81a, Mas83, Sch80b]. **Triperfect** [Kis84, Kis85]. **Triperfects** [BN82a]. **triple** [MPR81, SF85, SS86b]. **Trivial** [Str89]. **Truncation** [TW83]. **turbulence** [BK89]. **Turing** [Bra83]. **turning** [AW84, BHK84, Kum88]. **TVB** [CS89, Shu87a, Shu87b]. **twelfth** [Coh82]. **Twentieth** [YB88]. **Twenty** [Eva83]. **Twenty-Fourth** [Eva83]. **Two** [AB80, Ben83, CD88, Coh88, CL84b, DM82a, Gar87a, IN87, LL86, Leh81, Mar82b, Mis84, Olm86, AG83, BM82b, BK89, CT87a, CN88, Coh82, CD87, Cot87, Dja81, ELT88, Fai84, Gaá88, Gar87b, Gar88c, JR82, Kat80, KFD83, KBF87, Lev82a, Mas89, SW83, Shi86, Shi19, Sze89, Tre85, Tsu86]. **two-dimensional** [BK89, CT87a, CN88, Cot87, Dja81, Lev82a, Mas89]. **two-level** [AG83]. **two-phase** [JR82]. **Two-Point** [Gar87a, Fai84, Gar87b, Gar88c, Kat80, KFD83]. **Two-Sided** [Mar82b]. **Two-Step** [IN87].



**Two-Valued** [Coh88]. **Type**

[FO86b, FO86a, HT81, HW82, Lin86, NZ82, Sha81, Sha82a, Dyn84, Gol82, Gre82, HC81, KS87, Kum88, LW82, MZ88, Ioa83, Ioa85a]. **Type-Insensitive** [Sha81, Sha82a].

**U.S** [Lon83]. **unbounded**

[Gol81, Gol82, HK87, LS86]. **unconditional** [Tad83]. **Unified** [Ste84b, Sid80b]. **Uniform** [Egg89, Gar87a, Gar87b, GR89b, Mun81, Ray88a, Ioa85b, Loc81, Ray88b]. **Uniformly** [Gar88b, BSC81, OS86b, Shu87b]. **Unigrd** [MR83b]. **unilateral** [SB89]. **Uniqueness** [Boj81, Cho82]. **Unit** [Mae86, Buc87, BW88, BPv89, Lew85b, Lew87]. **Unitary** [Hag81]. **Units** [BP89b, Gra87b, PZ82, PWZ82, BP89a, CS87c, Leh88b]. **Univ** [Stu81a]. **unramified** [Vau85a]. **Unsymmetric** [Saa81, EL89, PTL85]. **update** [Luc83b, Ste84a, Toi81]. **Updates** [DM82b, Tap88]. **Updating** [Noc80, Pai80, FM85]. **upon** [Nie83]. **Upper** [HLR88, Cha82a]. **Upwind** [Lor86, OS82]. **Use** [CD86, Gal83, Tap88]. **used** [Iga84]. **user** [Sid88]. **user-friendly** [Sid88]. **Using** [BOP80, Bai88a, BLM89, AJ81, BF89a, Bue84, CT89, Dur87, LA82, LA84].

**V** [Kel82c, PP80c]. **validity** [Tro89]. **valuation** [von84]. **Value**

[AV85b, Ben84a, Ben84b, Bra83, Cas83a, Cas83b, Gar87a, GR89b, MW86b, Mee80, Mic87, Ste84c, Win80b, Alf80, Ana87, AV85a, BL88, CM87b, Dut89, ET84, EN87, Fai84, Gar87b, Gar88c, GT81, GT85, GT87, HV89, Ioa85b, II89, Kat80, KFD83, Las86, Lun86, MW86a, MR83a, Mas89, Mat87, Mic83, Mun81, OS86a, Oke87, OO84, Par80, Rab83, Rab85, Rab88b, Rab88a, RL89, Sch86, Spi85, Wei84a, Wei86, Wei84b, Win81, dW85a]. **Valued** [Coh88, GR81]. **Values** [Alf82, LL82, Mey84, NT87, Smy84, Fet81b, FT84, FW80, Fra81a]. **Vancouver** [Gau94]. **Variable** [Cho82, DW83, JM85, LL82, Ske86b, Ske86c, ALS89, ADT81, Fal83, GOT81b, KL85, San83, Sha80]. **variable-metric** [Sha80]. **Variable-Stepsize** [Ske86b, Ske86c]. **Variables** [CD88, Mar80a, Coh82, CD87, CGT88, Gaá88, Hab83]. **variation**

[San88, TL85]. **Variational** [Gol80, Mit83a].

**variationally** [Toi81]. **Varies** [CL83]. **varying**

[OS83, Ric81]. **vaulting** [Cor80]. **vector**

[EHGL89, For81, Fri84]. **Vectors** [Ger88, FP85].

**version** [BS88a, EN85, New85, PS85, SS89].

**versus** [Wer84a]. **vertices** [LM80]. **Very**

[CW80, Pom87, Sch80b, Kel82c, Sid82a]. **via**

[EK89, Ven86]. **Viscosity**

[DMG89a, Tad84b, Tad87]. **viscous** [BM81, CN86].

**Vol** [Fet81d, KP88, vK83c, vK83d, vK83e, vK83f,

vK83g]. **Volterra** [vt85b, BJVZ89, BHN82, Bru84,

Bru85, Bru89, Egg84, Egg89, Gla82, Gla87, JM85,

Lub83, Lub85, Mak80, Mak81, Wol83, vt85a].

**volume** [Spe86]. **Volumes** [AMS84, AS86].

**Voronoi** [Wil81b]. **Vortex**

[BBP81, BM82a, BM82b, Bea86b, Del89, Gre86,

Bea86a, CN88, Cot87]. **Vries**

[AW82, BDK83, DK85, Win80a].

**W** [Fet81d, Fet84b, Kel82b, KP88, Pex81, Tem81, Wil88, vK83a, vK83c, vK83d, vK83e, vK83f, vK83g].

**W.** [Ker83, Tza86]. **walk** [Rob89]. **Wang** [AD88].

**Washington** [Lon83, Smi83]. **Waterflood**

[DW83]. **Watson** [Stu81a]. **Wave**

[CGS89, Le 81b, ATZ83, Bro84a, EG87, Hal82,

Hig86a, Hig87, SB89, TH86]. **waveguides** [Gol82].

**way** [TH86]. **Weak** [Ray88a, Ray88b, Sch80a].

**weakly** [Bru85, Mak81, Mik89, Sch81].

**weakly-singular** [Mak81]. **Weber** [Gra87a].

**Weeks** [LG86]. **Weierstrass** [Las82a]. **Weight**

[För87, KE84, SW86b, Xu89, BS84, GN88].

**Weighted**

[DMG89a, DMG89b, FO86b, FO86a, Ioa83, Toi81].

**weights** [LS83]. **Well** [TH86, IIMPL81].

**Well-posedness** [TH86]. **Which**

[Bro85, Boy81, DM82a, Lag83, Olm86, dS81b].

**Whittaker** [Stu81a]. **whose** [Mah85]. **Williams**

[Sha82b, Kel82c, Wil88]. **Winter** [te 86c].

**Without** [Mon85b, Ser80, AW84]. **witnesses**

[EP86]. **Wong** [Mei85]. **Wrigge** [Fra81a]. **Wright**

[Fet81b].

**York** [Car80, Che83, Dav82, Fet81d, Fet81c, Fet81e, Fet82a, KP88, Kni88, Kru83, Pex81, Sal81, Sal84, SL85, Sol86, Tem81, vK82, vK83a, vK83c, vK83d, vK83e, vK83b, vK83f, vK83g]. **Yudell** [GW84].



**Zero** [Pie84, Cha82a]. **zeroes** [LS83]. **Zeros** [Ben83, CS82, FMPT84, Lac84, Mah82, BvtW82, Gar84, Iga84, Kim88, Leh88a, Odl87, SSO83, te 86c, te 86d, vt83, vtW86]. **zeta** [Apo85, BvtW82, Eli86, Leh88a, Odl87, te 86c, te 86d, vt83, vtW86].

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White:1983:MFD

Williams:1981:SRC

Wilker:1980:EAS

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