A Complete Bibliography of Publications in *Mathematics of Computation*, 2000–2009

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

Tel: +1 801 581 5254
FAX: +1 801 581 4148

E-mail: beebe@math.utah.edu, beebe@acm.org, beebe@computer.org (Internet)
WWW URL: https://www.math.utah.edu/~beebe/

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Title word cross-reference

$(1023, 511, 255)$ [GG01]. $(2, 2)$ [Cos03]. $(3, 2)$ [Cos03]. $(7, 1)$ [Gar03]. $(\mathrm{mod} p)$ [Pas09]. $(\mathrm{mod} p^2)$ [Pas09]. $(p-1)p^n - 1$ [SW00]. $(t = 3, 5)$ [KLKM00, KLKM02]. + [KW03a]. $-\Delta u = \lambda \rho u$ [LHL08]. 1 [FJ02, Kau01, NC06, SS00a, ST03, VS07]. 1.13198824 ... [Vis00]. 100000000000 [vdPtRW01, vdPtRW03]. 10^{36} [Zha07]. 10^7 [Jen03]. 10^8 [GO08]. 11 [CC04]. 14 [AS09]. 15 [AS09]. 19 [KÖ04]. 2 [BLZ03, Cul09, FLS+01, FM08, GJG03, He08, HS07b, Jay06, KMKK03, LX01, MRS02, MMRV05, PV05, Pil04, Sim05b, Skj03, Wen03, YC03, Zha03, vW00, KK02b]. 21 [CCIL02]. 25 [Gib09]. 28 [HMV09]. 2^+S_4 [Pac07]. $2D$ [GGGS08]. $2 \times 3 \times 5 \times \cdots \times p \pm 1$ [CG02]. 3 [AL05, Bel04, CC08, FM02, Oyo09, YZ08, YC03, Zha05a]. 300 [GS04a]. 3021377 [BLZ03]. $3x + 1$ [AL03, Sim05b]. 4 [Fri00, HSYY08]. 48 [CK03]. $4 \cdot 10^{14}$ [Ric01]. 8 [iHHR08]. = [KW03a]. $[-1, 1]$ [DVB08]. $^{(1)}$ [Sid02]. $a^{p-1} \equiv 1 \pmod{p^r}$ [KR05a]. A_4 [Cou06]. *abc* [Bro00a]. $Ax = \lambda Bx$ [Rom08]. B [Li00, Rom08, Wah04]. $\beta(1)$ [Kot08]. $\boldsymbol{E}$ [AMR09]. $\boldsymbol{H}(\mathbf{c}curl)$ [CDD08]. $\boldsymbol{H}(\mathbf{d}iv)$ [CDD08]. C^1 [HNSZ08, JL08]. C^2 [CJ05b, HJ06, SJ07b]. C_3 [Zha05b]. $\mathcal{Q}_1$ [DL05]. ℓ [MMRV09]. ℓ_1 [COS09a]. F [Bre04a]. $F(z+1) = \exp\big(F(z)\big)$ [Kou09]. F_p [Ned09]. F_{p^n} [LM00]. $\Gamma_0(5)$ [Ave07]. $GF(2)$ [KLKM00, KLKM02]. H [MST03, Mos00]. $H(curl)$ [Urb01]. $H(div)$ [Urb01]. $h(n)$ [Hag09]. H^1 [Bre04b, Car02, CL00a, CDD08]. $H^1(\Omega)$ [BPS02]. H^2 [NTW01]. hp [Ain01, BE07, CCSS02, Geo08, GNP08, PS03, SS00b]. K [CL01, LS06b]. $K3$ [Shi04]. $k = 4$ [Mos00]. κ_3 [CD08]. L [AK08, BH00b, Lou00, Sto07, Wat04b]. L^1 [CJ06, Liu03]. L^2 [BPS02, Car02, CL00a, Poz04]. L^∞ [CL00a]. L^p [CSX07]. L_2 [FMW02, Osw08, Joh01]. L_4 [BM00a]. L_p [Yoo03]. λ [CX09b, FK09]. λ_3 [FK01]. $Li^{(p)}$ [BdJ08]. M [AXY02, Peñ04]. $\mathbb{F}_2$ [vzGG02]. $\mathbb{Q}(\sqrt{p})$ [FK09]. $\mathbb{R}^\sim$

[CJ05a]. $\mathbb{Z}_2$ [FK09]. GL(n) [Bro09]. $\mathbf{Q}(\sqrt{D})$ [MRW09]. $n! \pm 1$ [CG02]. n [DS01, FL06, LBI02]. $n < 50$ [Hag09]. p [Ain01, Brö08, CLY06, Cha09, Pas09, PR01, ST07, Wit05, Zha05c, BdJ08]. $p(a) + q(b) = r(c) + s(d)$ [Ber01]. $p - 1$ [Har05b]. p^2 [PV05]. $\phi(n) = \phi(n + k)$ [Hol03]. $\pi(x) > li(x)$ [BH00a]. $\pm 2^a 3^b$ [JR03]. q [CCG08, MaVZ06, iHHR08]. $Q(t)$ [Smi00]. QR [WG02, WG03]. R [Car06, MM07]. R^1 [Yoo00]. R^2 [Cao08]. R^3 [MD01]. R^d [GLPW04, MW04]. R^s [HSW04b]. S [Sim02b]. $s^2 + y^{2p} = \alpha^3$ [Che08a]. S_8 [iHHR08]. $\sqrt{3}$ [MO09]. SR [Faß01]. $\sum_{p|N} \frac{1}{p} + \frac{1}{N} = 1$ [BJM00]. t [KLKM00, KLKM02]. θ [Sid03]. $\theta(x; k, l)$ [Dus02]. V [Bre02, Bre04a, DGTZ07a]. w [MS06]. W_∞^{-1} [Dem07c]. x [BH00a, Dus02]. $X + A^* X^{-1} A = Q$ [Mei02]. $X - A^* X^{-1} A = Q$ [Mei02]. $x^2 - Dy^2 = \pm N$ [Mat02]. $x^2 - F_{3n}/2$ [WS09]. $x^3 + y^3 + 2z^3 = n$ [Koy00]. $x^4 + 2y^4 = z^4 + 4w^4$ [EJ06]. $x^6 + y^6 = a^6 + b^6 + c^6 + d^6 + e^6$ [RM03]. $x^m - 2^n$ [WS09]. $\xi^{(2n)}(1/2)$ [Cof09]. $X \pm A^* X^{-1} A = I$ [IHU05]. $y = x^2$ [Cam04]. $y^2 = 1^k + 2^k + \cdots + x^k$ [JPW03]. $y^2 = x(x + 2^a p^b)(x - 2^a p^b)$ [DP06]. $Y^2 = X^3 \pm p^k X$ [Dra06]. $Y_E(7)$ [HK00]. Z [DM09a, Kou09]. $Z/(2Z)$ [ACP04]. Z_m [BDMM01]. $\zeta(1 + it)$ [Kot08]. $\zeta(12 + it)$ [Kot04]. $Z \times aZ^n$ [KR05c]. $|x^3 - y^2|$ [CHS09].

-adic [BdJ08, Brö08, PR01]. **-algorithm** [Sid03]. **-approximation** [Joh01]. **-based** [AMR09]. **-bridge** [HS07b]. **-class** [Wit05]. **-conjecture** [Bro00a]. **-convergence** [Li00]. **-cube** [HSYY08]. **-cusp** [Ave07]. **-cycle** [DGTZ07a, iHHR08, Bre02, Bre04a]. **-cycles** [Sim05b]. **-cyclic** [GG01]. **-D** [CC08, LX01, Zha03]. **-discrepancy** [FMW02]. **-element** [NTW01]. **-error** [Yoo03]. **-estimate** [Poz04]. **-extension** [FK09]. **-finite** [Ain01, BE07, Geo08]. **-functions** [BH00b, Car06, Lou00, Sto07, Wat04b]. **-generic** [iHHR08]. **-Gosper** [CCG08]. **-invariant** [FK09]. **-invariants** [FK01]. **-Laplacian** [CLY06]. **-local** [GNP08, PS03]. **-logarithms** [MaVZ06]. **-matrices** [CX09b]. **-matrix** [AXY02, Peñ04]. **-nomials** [KLKM00, KLKM02]. **-norm** [COS09a, CSX07]. **-numbers** [DM09a]. **-optimal** [CL01, LS06b]. **-part** [ST07]. **-plane** [Kou09]. **-polytopes** [YZ08]. **-power** [MMRV09]. **-projection** [Car02]. **-projector** [Osw08]. **-range** [Mos00]. **-rank** [Bel04]. **-service** [BdJ08]. **-shaped** [AK08]. **-simple** [KMKK03]. **-splines** [Wah04, CJ05b]. **-stability** [Car02]. **-strong** [Zha05b]. **-surfaces** [MST03]. **-Sylow** [MMRV05]. **-torsion** [Cul09]. **-units** [Cha09, Sim02b]. **-version** [CCSS02, Zha05c]. **-widths** [FL06].

1 [HSWW01]. **10-moment** [Ber06]. **1D** [Bos04].

2d [Kop07b].

a-posteriori [San08]. **A-priori** [Li09, PF07]. **Abel** [CCG08]. **abelian** [ASwaAbJC05, BJA04, BS05b, CK03, Cul09, Hak09, Lou07, ST07, Bru04]. **absolute** [RW05]. **absolutely** [Obe05]. **Absorbing** [GH05, AMR04, Sze06, Vac05]. **abundance** [BB01b]. **accessibility** [EH09]. **accuracy** [CLSS03, GM05, Ye08]. **Accurate** [AXY02, DK06, JV05, Has06]. **achieve** [SKJ02]. **acoustic** [BP07c]. **acting** [Krä05]. **action** [RS03]. **actions** [EO03, HR08]. **acute** [KKN01]. **adaptations** [CD05]. **adapted** [KLS08]. **adaption** [PWZ08]. **Adaptive** [BM00b, CDD01, DHS07, HS01, SS08, Sul05, CH06, CF04, CC08, CHX09, CKMP03, GHS07, HMGR00, SS09, SW09c, Ten08, Wih06]. **adaptivity** [NSV00]. **Addendum** [vdH04a]. **addition** [vdPtRW03]. **additive** [BW00, BCC06, LST09]. **adic** [BdJ08, Brö08, PR01]. **adjacent** [Seg01]. **admissible** [CJ01, DGK05]. **advection** [BE07, LT03, San08]. **advection-diffusion** [BE07, LT03]. **advection-diffusion-reaction** [San08]. **affine** [Bos03]. **AG** [CF02]. **Airy** [GST01]. **Aitken** [Ale03]. **algebra** [CI00, Coh00, KM04a, Sim00, Coh02, Shp07]. **Algebraic** [BS04, CdSF09, FR05, ABP06, Bro00a, Coh00, Dre03, Eld02, Fla09, GP08b, Jay06, JC05, Kau01, KM04a, Mär01a, MRS02, RW07, TV06, Wal00c]. **algebraic-geometric** [GP08b]. **algebras** [Bos03, Olt07]. **algorithm** [All04, BdJ08, Bre02, BLZ03, Brö08, CHS09, CF04,

DM08, DK02, FG04, Faß01, FHR03, GLPW04, GM07, JL01, Kom05, LM00, MK02, MRW09, Möl08, Mor07, Mos00, Ned09, SS00a, Sid03, Skj03, ST02c, iTiY09, Ter00, TY00, WG02, WG03, CCG08]. **algorithmic** [Coh02, Tal03, Wal01, Cer07]. **Algorithms** [GM05, GL05, BS04, BMSS08, BPV00a, Bre04a, DKPS05, Els01, FMTW06, GP06a, GW06, HW02, Hol02, Hol04, KM04a, MT00, MP06b, Nie06, NC06, QS00, SS08, SSV09, Sti02, Tse04, Tse08, Tun09, Van06, Wan03, Wei06, XZ00]. **alloys** [Ste02]. **Almost** [SY00, Voi07]. **alphabets** [GP08b]. **alternating** [CPTZ04, Göb02, Tsu04]. **alternative** [JL01]. **amicable** [BB01b, BBvS03, Cos03, Gar03]. **Analysis** [BR02, BP07c, BP08, CD03a, Fao09, FP04, FHL07, HP02, HP03, Hip03, HS09b, LLL08, McS06, MZ07, PB03, Ste02, TY00, XZ04, Yan00, Zha04, Zul02, BS04, BKP08, BBM05, BLR05, BCL08, CH08, CJ06, CG05, CHLS02, DD09, FL09, FS05, FV03, GS06b, Gav07, Gir05, GSY08, Hol04, JS01, Kim07, Kop07b, Lay00, Laz01, Li03a, LX09, Li09, Lin03, LL08, MKCI01, Nie04b, Ste03a, Sun06, TT02, Ten08, Tse04, Vac05, VD03, Wan07, Zho05a, FNP00, Mär01b, Nie06, Ves02]. **analytic** [ASwaAbJC05, DS01, HN00, Kal05a, Kal05b, MS03, Nie04a, Not06]. **Analyzing** [MRS02]. **angular** [LEU09]. **anisotropic** [BZ01, Cao08, CSX07, DL05, WL03]. **Ankeny** [vdPtRW03, vdPtRW01]. **anomalous** [GLV00]. **Anti** [KR07, Bri07]. **anti-cyclotomic** [Bri07]. **Anti-Szego** [KR07]. **any** [ZL08]. **apolar** [Veg00]. **Apostol** [Luo09]. **Applicability** [Smy09]. **application** [BGH09, BPV00b, DFG+04, DIM08, DL07, yGjW09, LDH09, Moo04, Mee05]. **Applications** [CD05, Ain01, BB01a, CF02, CX09b, Con05, DMGVJP05, DMGVPR06, Geo08, Kop07a, Lee06, LFHL01, LLT06, NWW05, Nie04a, QV05, Smy09, WS09, vdP05, CGP06, Lev05, Nie01, Tal03, Tse04, Van06]. **applied** [GMT08, Guz08, Ney02, ST00]. **approach** [ASW09, CL00a, Cul09, Deu02, DS09, JPW03, KH01, Rob03, Sut09, Sze06, TGO03, Zul02]. **approximants** [CTZ06, ZCT09]. **approximate** [BLP09, GS04c, RS03]. **Approximating** [CI00, Kve04, Suz06, JS01, Kre03, PWZ08]. **Approximation** [ABF02, DVM02, DV07, GM01b, AR08, AK08, BJ07, BGN06, BKP08, BB03a, BGH09, BBG00, BP04, BKP05, BP07c, BP08, BE05, Cap00, DMGVJP05, DH01, DA05, DM02, FG06, FP04, FT00b, Fus08, GHK04, GHK05, GW06, GK09a, HB01, HR03, HMGR00, Kho07, KW03a, LW07, Lin03, MST03, MT00, MD01, Moo04, NW04, NW02, OV06, Sug03, qWyG08, WW07a, Wie00, Zha04, HP02, Joh01]. **Approximations** [DJ05, AL05, BO02, Bea00, Ber06, CM01, DM09b, Eng09a, FHL07, GJ00, GO09, KH01, Kov07, LT03, Lub05, MRS02, MKD07, SW09a, Sol07, TSM09, Tem03, Zha06a]. **arbitrarily** [BO00]. **arbitrary** [GM01b, Sun09]. **argument** [Bar04, KE06]. **arguments** [KR01]. **arising** [HZ04, Kho07]. **Arithmetic** [GPS02, BEFG05, Bau04, DFL+02, GL06, Joh00, Kad08, LZ09]. **Armijo** [WLQ08]. **Armijo-type** [WLQ08]. **Arnoldi** [Ste00, Rom08]. **ARPACK** [Ste00]. **Artin** [vdPtRW01, vdPtRW03, Cou00, Fie01]. **assessment** [ESU02]. **associated** [BCBDGV09, DS07, Fre05, Mor04a]. **Asymptotic** [Cof09, Hou02, Lee02, Sid09a, Tem03, Jin06, Ye04, AGH07]. **Asymptotically** [HSWW01, KM07, SW04, Mor07]. **Asymptotics** [Dam04, Tem02, CJ09, Peh08]. **asynchronous** [TT02]. **Atkin** [JL01]. **attack** [KM04b]. **Aurifeuillian** [GP06b]. **Auslander** [DK02]. **Automatic** [Gra02, vdP05]. **automorphism** [CCIL02]. **automorphisms** [All04]. **Average** [Emm02, BP07b]. **averaged** [Spa07]. **averaging** [BC02b, CB02, Car04, MT09]. **Avoiding** [CP02]. **axisymmetric** [CGP08, GP06a].

baby [Sti02, Ter00]. **baby-step** [Sti02, Ter00]. **Back** [DL07]. **Backward** [GOPT02]. **badly** [BO00, DS01]. **Baillie** [Zha02a]. **balance** [Gos02]. **Balanced** [CJ05a, KMR09, Ned09]. **Banach** [GM05, GM07]. **band** [BES03]. **Barnes** [Tem02]. **barycentric** [BC07b]. **base** [DIM08, Zha02a]. **based** [AMR09, Cao08, CGP06, CHV07, DJ05, GWTW08, Has06, HS07a, HNSZ08, KMR09, MT00, PT06, SST00, SJ07a, TS07, XZ00, Zho03]. **bases** [BCC06, Cou06, ER07, FG06, Göb02, LS03a, LW07, Urb01, Zha01, ZT03]. **basis** [Buh01, Lev04, Mos00, NWW05, SW02, SW09b].

be [CT03, Che05b]. **behavior** [ES02b]. **behaviour** [DQR04, MRS02]. **Bellman** [BJ07, Kry07]. **BEM** [BS05a, MM01]. **Bernoulli** [CD07, Kel07, Luo09]. **Bernstein** [BD01a]. **Besov** [BBX03]. **Bessel** [Seg01]. **best** [BGH09]. **between** [BMSS08, Cou00, LM00, Seg01, vW00]. **Bézout** [LB01]. **BFGS** [ZL08]. **bi** [TY00]. **bi-conjugate** [TY00]. **bias** [Mor04b]. **bilinear** [HP02, HP03, Veg00]. **Bimonotone** [Eis09]. **binary** [AB04, BZ09, FHR03, GLV00]. **Biorthogonal** [LW07, HJ02]. **Biquadratic** [BB04a]. **Birch** [ASwaAbJC05, FLS+01, GJP+09]. **birth** [FM08]. **bisection** [Ste08]. **bits** [VS02]. **Bivariate** [TT00, CJ05b, GL02, Lec06]. **black** [FHR03, SL01b]. **black-box** [FHR03, SL01b]. **block** [Bai06, ER07, SY00, SQO04]. **blocks** [Que09]. **body** [Hua04]. **body-plate** [Hua04]. **Boltzmann** [BKPS08, FM02, Kho07, MP06b]. **Book** [Ain01, Arn01, Asl04, Ber04a, Bul04, Bur03, Cal09, Coh00, Coh02, Eld02, Els01, Enr05, Fed07, Fre04, Gau00, Gav06, Gav07, Gir05, GG04, Hai01, HW06, Hop05, Lay00, Laz01, Laz05, Lee06, Lev04, Lev05, Mär01a, Mär01b, Mee05, Mic06, MP01, Nie01, Nie02, Nie04a, Nie06, Osh01, Par00, Rei05, Riv07, She07, Shp04, Shp05, Shp07, Shu00, Shu01, Shu02, Sim00, Ste00, Str03, Suc01, Sul05, Szy09a, Szy09b, Tal03, Tem02, Tem03, Tse04, Tse08, Tun09, Van06, Ves02, Wah02, Wah03, Wah04, Wal00a, Wal01, Wan07, aY07, xY01, dB00, vdP05]. **Boros** [CX09a]. **bound** [BH00a, Kal05a, Kal05b, NX08, Pil04, Wal00c]. **boundaries** [BLP08, Mad09, ÖT06]. **Boundary** [CDNZ00, GS01, AMR04, AMCJ04, ACPT07, ABM04, BC02a, BBX03, Bea01, BRS05, BS05a, Bre02, Bre04a, BCS06, CP02, Cha05, DHS07, EGCZ04, GH05, GS06b, GS02, GHL06, GNP08, HR03, HS07b, HZ01, JS09, KW03b, Lau01, Sol07, SW09c, Sze06, Vac05]. **boundary-value** [EGCZ04]. **bounded** [GP08b, HSW04b, OV06]. **boundedness** [HR06]. **bounding** [HK09]. **Bounds** [Gro04, Seg01, dlM02, AL03, BJ07, BS00, BPZ07, DR01, DM09a, FMTW06, Har07, HW02, Jin06, Kal05a, Kal05b, Li06, MS03, NWW05, SL01a, Sim02a, SvdES03, SKJ02, ST02a]. **Boussinesq** [FNP00, MKD07]. **box** [FHR03, SL01b]. **BPX** [DGTZ07a, DGTZ07b]. **Bramble** [Car02]. **Brandt** [Dem07a]. **Brauer** [Olt07]. **breaking** [GP02c]. **Breeding** [BB01b]. **Bregman** [COS09a, COS09b]. **bridge** [HS07b]. **Brocot** [BR09]. **Bromwich** [WT07]. **Brumer** [GRT15, GRT04]. **Bruno** [FL07]. **bubble** [BM01]. **buckling** [MR09]. **building** [Que09]. **butterfly** [Faß01]. **BV** [Gav07]. **Byrnes** [Boy02].

Cahn [FK07]. **calculate** [Hol02]. **Calculation** [MRW09, PS02a]. **calculus** [CW08, Fao09, GP01, GTTD07, KH01, Tii01]. **Can** [BO00, Che05b]. **cancellation** [HS06a]. **cannot** [CT03]. **Canonical** [Bar04, BvL07]. **capacity** [RR07]. **Carlo** [GLPW04, HW02, LW04, Lin09, MW04, Pap01, SKJ02, Wan03]. **Carlson** [Gra02]. **Carmichael** [FPS02, FPS01, GP02b, How00, Lov07]. **cascadic** [ST00]. **case** [ACFP02, BP07b, BM00b, Fri00, GHL09, HR08, MRS02, SW04]. **cavity** [CW09]. **cells** [SSV09]. **Centered** [FMW02]. **central** [KK02b, Mey08]. **centre** [FFGM04]. **centroidal** [DJ05]. **certain** [Bau04, Bre04c, BDMGVO00, Con05, DGVN02, DMGVPR06, SY00, ST07, Wit05]. **chain** [FL07]. **chains** [Tal03]. **change** [CO08]. **changes** [BFM08]. **channel** [yGjW09]. **Character** [Nie01, Boo06, Bos03]. **characterisation** [ER03]. **characteristic** [BTW05, Mel06, Skj03]. **characteristics** [MT09]. **characterizing** [Kot08]. **characters** [IK05]. **Chebyshev** [Ber04a, BPP03, BCBDGV09, DVB08, Mor04b, Not06, VBV06]. **Chebyshev's** [EH09]. **check** [Peñ04]. **chemical** [FPF06]. **Chinese** [JL01, BS07a]. **Chorin** [Yin03]. **Chowla** [vdPtRW01, vdPtRW03]. **Ciphers** [Wal00a]. **circle** [SL01a, Sun05, dlCYLR09]. **circles** [Nie04b]. **circulant** [BDMM01, LS04]. **circulants** [Cre08]. **Class** [BJA04, Fri00, Sch03, Wat04a, BDF08, BEGG08, Boo06, Brö08, Buh01, CK03, Cha09, CR00, Eng09a, Fan01, FOS05, FOS09, Fie01, FT00b, GHK05, Hak09, Hei09, HPP03, JBA05, KW07, LT03, LK06, LK08, Li03a, Li09, Lou00, Lou02, Lou07, Pap01, Sha01, Sid06, ST06, ST02a, ST07, Wit05, YC03, dlM02]. **classes** [BM08, CHGN08, DDR04, FL06, Hul00, TSM09]. **classical** [BS05a]. **Classification** [Bat01, HMV09]. **Clenshaw** [KKR03]. **closure** [Ber06, Bre05].

clouds [Zup08]. **CM** [BS07b, CK03, KW05, LK06, LK08, Lou00]. **CM-constructions** [BS07b]. **CM-fields** [CK03, LK06, LK08, Lou00]. **coagulation** [BF08, LW04]. **coagulation-fragmentation** [BF08]. **coarsening** [GHS07]. **codes** [CF02, GP08b, HMV09]. **Coding** [Bos03]. **coefficient** [KKR04]. **coefficients** [ADGR04, ABH07, Beb05, Boy02, CH03, Dam04, DVZ00, GJ00, KW03a, Kve04]. **Collected** [Str03]. **collision** [MP06b]. **Collocation** [Gav06, Du09, Kau01, Kul06, Lau01, Zha05c]. **combination** [WL03, Zho03]. **combinatorial** [Shp05]. **Combined** [FGT02, Lin09]. **combustion** [Yin04]. **commutative** [Coh00]. **compact** [Buh01, NL05]. **compactness** [MD01]. **Comparison** [FL06, Hol02, JL03]. **compensation** [DL07]. **complementarity** [AC08, Lin09, QS00, QJH04]. **complete** [BP07b, BF04, CDO03]. **completion** [BEGG08, Ste08]. **complex** [BPZ07, BC07b, DVB08, DTvW04, Kou09, Noë06]. **Complexity** [CCS06b, SSV09, BS05a, Eng09a, Wal00c, WW01, DHS07]. **Component** [SR02, DK04, NC06]. **Component-by-component** [SR02, DK04, NC06]. **components** [DK02]. **componentwise** [CDW07]. **Composite** [yGjW09, CMP03, Mor04b, Per03, TT00, WH05]. **compositeness** [Lov07]. **compressed** [COS09b]. **compressible** [Enr05, GHL09]. **Computation** [Ble03, CGGR00, Cha05, Cha09, GS06a, Hag09, Ket09, KR02, Lou00, Lou02, Mel06, MAK+04, RR07, Str08, ST07, VK09, AXY02, All04, CM06, Eng09a, FR02, Hak09, Has06, Ito03, Jin06, KP09, LS09, Lou07, Mei02, MKCI01, Möl08, PR01, Wal00c, Wei06, dRvdL09]. **Computational** [BLP03, BPV00b, Bur03, Coh00, DS09, Gau00, GJP+09, Kot04, Kot08, Riv07, Cul09, Deu02, Enr05, JPW03, Mic06, Nie02, Osh01, Shp07, Wah02]. **Computations** [Ave08, BH02b, CL00b, DL07, KK02b]. **compute** [Brö08, Sch00]. **Computer** [Mär01a, Suc01, vdPtRW01, vdPtRW03, Osh01]. **computers** [Sim00]. **Computing** [BKS09, Bar06, Bre05, Bro00b, BS05b, CDJ+07, CR00, CMT04, DHB+04, Eng02, Eng09b, Fie01, FJT07, GL06, HPP03, HS07b, Hur05, JC05, LM00, MMRV09, Olt07, PV05, Sto07, ST03, Ye08, Zen05, vzGN04, BdJ08, BMSS08, FFGM04, GH05, GST01, Gro04, Hol04, MR07b, MP06b, Nei05, Nie06, SSV09, TGO03, VBV06, WT07, dHJW07]. **concerning** [Boy02, GP02b, KK02b, Osw08, vW00]. **condition** [BP07b, CDW07, Dég01, EZ06, KKN01, Li06, SW09b]. **conditioned** [DS01]. **conditions** [AMR04, AMCJ04, ACPT07, ABM04, BRS05, Cha05, GH05, GS01, GS02, HR03, JS09, Sze06, Vac05]. **conductor** [FK01, Sch03, Sto07]. **cones** [HS03]. **confluent** [Li06, LMPV05]. **conforming** [CB02, CH08, HX03]. **congruence** [KR05a, SS00a]. **Congruences** [Hei09, DG04]. **congruential** [GP02c, NS01]. **conics** [CR03b]. **conjecture** [ASwaAbJC05, Boe01, BCC06, Bro00a, Cof09, DTvW04, GRT04, GRT15, GJP+09, Luc01, Ric01, vdPtRW03, vdPtRW01]. **conjectures** [FLS+01, GP02b]. **Conjugacy** [Hul00]. **Conjugate** [GH02, Sya05, DY01, Dai03, Li08, ST00, TY00, WLQ08]. **conjugate-gradient** [ST00]. **conjugates** [FR05, Göb02]. **connected** [AFT05]. **connecting** [Moo04]. **connection** [ADGR04]. **consecutive** [BB08, Che05b, DFL+02, For02, Seg01]. **conservation** [AMG07, Bos04, BPV03, CKMP03, Fan01, FR02, GJ00, KKR04, KMR09, KM01, Kir03, KNP03, KO00, LTWZ09, OV06]. **Conservative** [FL09, CKS05, Kim07]. **Consistency** [HP03]. **consistent** [Grü03]. **consistently** [Rob03]. **consolidation** [BCS06]. **constant** [Kot08, LZ09, dRvdL09]. **constants** [Bre04c, Har05b, Kre03]. **constrained** [DH01, EG04]. **Constraint** [BP07a]. **construct** [CD03b]. **Constructing** [CDO03, DA07, HX01, Kar09, Wen03]. **Construction** [BJLS08, DKPS05, KW05, DK04, Dic07, DPW08, FMW02, HV07, KS06, LT04, NC06, Obe05, SR02, SKJ02]. **constructions** [BS07b]. **constructively** [CHGN08]. **contact** [WW09]. **containing** [Kad08]. **Continued** [Bro01, DS07, Kar09, Kom05, MRW09, iTiY09, TS07]. **continuing** [KR05b]. **Continuous** [BE07, EZ06, KM05]. **Continuous-time** [EZ06]. **continuum** [Lin03]. **contour** [SST00]. **contours**

[WT07]. **contradictory** [GP02b]. **Control** [Tse08, BC02b, CF01, CB02, Car04, CLY06, CF04, Che08b, DH01, DA05, HMGR00, WW09]. **convection** [AGG09, BE05, CCSS02, CC07, CJ06, ER03, HS01, MKD07, OPS06, WL03, Yan00, Zha03]. **convection-diffusion** [AGG09, CC07, CJ06, ER03, HS01, WL03, Yan00, Zha03]. **convection-diffusion-reaction** [BE05]. **Convergence** [AMG07, AD05, BGL07, BM08, BF08, Bre02, Bre04a, COS09a, CHX09, DG01, Des01, GT01, KM05, Liu00, LX01, LS03b, MK02, TT02, WL00, WG02, WG03, Yin03, BP07b, Bos04, BZ01, BDMGVO00, BE05, CH06, Chr04, CHLS02, DHS07, Ell06, GP06a, GW06, Grü03, GGGS08, HP05, HSZ08, Jia05, Kal03, Kir03, KW03b, Kov07, LWXZ08, MNS03, Olv09, Pap01, PT06, QS00, Ric08, RS03, SS00b, ST00, Sid02, Sid03, TX02, WLQ08, Zan04, Zha06a, CDD01, Li00]. **Convergent** [BLP09, GLFE06, HKR07, Bea01, EF08, GHL09, GM07, MR07b, Obe05, Ten08, ZL08]. **convex** [FL08, Fre04, Rep00, TT02, TX02, Tse04]. **Convexity** [GS04c]. **Convolution** [CLP06, ÖT06]. **convolutions** [Mih08]. **coordinates** [GS06a]. **coprimes** [BLP07]. **corner** [AK08, Vac05]. **corners** [ST00]. **correction** [DL07, GS04b, GSY08, PKRK06, TX02]. **corrections** [LWXZ08]. **corrector** [Sya05]. **Correlated** [GP08b]. **corresponding** [DMGVPR06]. **Corrigenda** [KLKM02, MRW09, vdPtRW03]. **Corrigendum** [BB07, FPS02, GRT15, HS08, Kal05a, MNW02]. **cost** [DK04]. **Cotes** [Kre03]. **Coulomb** [MKCI01]. **counterexample** [BSO07, Ell06, Osw08]. **Counting** [DDR04, BTW05]. **coupled** [CDNZ00, EF08]. **Coupling** [ACC$^+$08, GS06b, Ku08]. **Couveignes** [LM00]. **covariant** [Hur05]. **cover** [BS09]. **covering** [DGTZ07a, DGTZ07b, Gib09]. **coverings** [VK09]. **Covers** [WS09, DA07]. **covolume** [CL00a]. **Crank** [AMN06, HS07a]. **created** [Ste08]. **Criteria** [NW04, SW00]. **criterion** [Car02]. **critical** [BB06]. **Crouzeix** [Car02]. **crypto** [HGNS03]. **Cryptographic** [Nie04a]. **Cryptography** [Nie02, DIM08, Wen03, Wal00a, MP01, Shp04]. **Cubature** [HN07, BD01b, HX01, HV07, SL01b]. **cube** [BTW01, CDD08, HSYY08]. **cubes** [BPTJ07, EJ09, Kad08]. **cubic** [Bau04, Bro05b, DTvW04, FK01, Gru00, HNSZ08, KK02a, Kim09, Lub08, PT01, Rob01, SS00a, YZ08]. **cubics** [BEFG05]. **curl** [BP04, CGP08, Fus08]. **curl-free** [Fus08]. **current** [AMR09, BRS05, Hip03]. **Curtis** [KKR03]. **curvature** [FV03]. **curve** [DIM08, Dra06, KM04a, MMRV05, MMRV09, Mor07]. **curved** [HR03]. **curves** [ACP04, BTW05, BMSS08, BS07b, BS09, CF02, CC04, DD09, DV07, FLS$^+$01, GPS02, GLV00, GS05, GJG03, GG09, GJP$^+$09, HK00, Han03, JKKZ07, Jüt01, KM07, KW05, LM00, MR02, MP01, Sik01, Sik05, SJ07b, Voi09, Wen03, vW00, vdGvdV00]. **cusp** [Ave07, Gru00, The05]. **cutoff** [FM02]. **cycle** [BZ01, DGTZ07a, DGTZ07b, GP06a, iHHR08, Kal03, Bre02, Bre04a]. **cycles** [BBvS03, HM06, Sim05b]. **cyclic** [Bro05b, FK01, GG01, iHH05]. **cyclotomic** [Bri07, CR03a, FS04, FK09, KR02, Sch03, Ste01, Tha00]. **cyclotomy** [Ste01].

D [AL05, FM02, Zha05a, CC08, FM08, He08, LX01, VS07, Zha03]. **DAE** [Arn01]. **Data** [GHK04, GHK05, Cal09, CJ05b, He08, Kho07, MP06a, Nie04b, Sol07, Tan06, dFMS01]. **Data-sparse** [GHK04, GHK05, Kho07]. **Davenport** [BSO07]. **Davidson** [Rom08]. **Deblurring** [She07]. **decay** [Liu03]. **Deciding** [FFGM04]. **decision** [KM04b]. **decoding** [GP08b]. **decomposable** [EGGR02]. **decomposition** [Ber04b, BS00, Bri07, CX09b, DNR09, GWW09, GKY06, GRW05, yGjW09, Hua04, JHL08, Krä05, LT03, Olt07, TT02, Zan04]. **decompositions** [SQO04]. **decoupling** [JSX06]. **Dedekind** [Chu05, LK08, Oma01]. **deficient** [EG04]. **definite** [Mel06, Sun05]. **definition** [Que09]. **Deformation** [Ave07]. **Deformations** [FL05, HP02]. **degenerate** [ADNT04, ABH07, BCS06, FT00b, Li09, NSV00, qWyG08, Zha06a]. **degenerations** [BF03]. **degree** [BLZ03, BLZ05, CK03, CG05, CL01, Fri00, GRT04, GRT15, Jüt01, KLKM00, KLKM02, PR01, Sel01b, Wit05]. **degrees** [DA07]. **delay** [Sen07, Sun06]. **Dense** [CJ01]. **densities**

[EF08, JW03]. **Density** [Rob01, PS02a]. **Dependency** [FP06]. **dependent** [AMR09, AMCJ04, Cha05, CS08a, DM09b, He05, HS07a, He08, Shu02, Zha04]. **Derivative** [Zha02b, GUW00, MKCI01]. **derivatives** [Cao08, CS08a, GK09b, Has06, IN06, Sid00]. **Deriving** [DNR09]. **descent** [BS09]. **description** [BF04]. **design** [FMW02]. **designs** [FMW02, FMTW06]. **Detecting** [BLP07, FG04]. **detection** [BB01a]. **Determinant** [JBA05, Sim02a]. **determination** [Cer07, GG01]. **determine** [Mos00]. **Determining** [MMRV05]. **deterministic** [GP02c, Kho07]. **diagonal** [PT01]. **diagonality** [Bro07]. **diagonally** [AXY02, GI04, Ye08]. **diagrams** [Sto03]. **diameter** [FRSÉ06, Fla09, HS06b, HS08]. **diaphony** [Lee02]. **dielectric** [VD03]. **difference** [BCS06, DM02, ES02b, FGT02, GG01, GK09b, HKR07, KLS08, Kry07, Laz01, LTWZ09, MR03, OPS06, Obe05, Per03, Rob03, Ten08, WW05, Yin04, Yoo00, Zha06a]. **differences** [FL07, FL08, Seg01]. **different** [Kit09]. **differential** [AFT05, AET09, CHV07, CDNZ00, CS08a, DG01, ET05, FL09, FOS05, FOS09, GS06a, Gao03, GM07, GWTW08, Hai01, HMGR00, Hur05, Jay06, JC05, JSX06, KW03a, Ku07, Laz01, Mad09, Mär01a, MRS02, MZ09, MT09, OvdP02, Shu02, Sul05, Sun06, Ves02, qWyG08, aY07, Yoo00, Zha06a]. **differential-algebraic** [Jay06, JC05, Mär01a, MRS02]. **differentiation** [LP06, RS01]. **difficult** [BCL08]. **Diffie** [KM04b]. **diffusion** [AK08, AGG09, BGN06, BE05, BE07, CCSS02, CC07, CJ06, CGO05, CLP06, Des01, ER03, Fao09, FPF06, GSS07, GGGS08, HS01, KLS08, Kop07b, LT03, Ley08, OPS06, San08, WL03, Yan00, Zha03]. **diffusion-convection-reaction** [OPS06]. **diffusion-dissolution** [FPF06]. **diffusion-dissolution/precipitation** [FPF06]. **diffusion-wave** [CLP06]. **diffusive** [ADNT04]. **digital** [Emm02]. **dihedral** [Bre04c]. **dimension** [Bre05, CC07, HW02, Oyo09]. **dimensional** [ABM04, Bea01, BP07c, BP08, CW09, CD01, CGO05, CL01, EZ06, ER03, GWW09, GJ00, Gur08, Hal01, HJ06, HR08, HSZ08, LS04, LS06b, NL05, Ste02, Zha05c]. **dimensions** [AS09, AAW08, BC02a, BS00, DM09b, Grü03, GM01b, HN07, HZ04, KLS08, KO00, LMMW00, TWW01]. **Diophantine** [Wal01, BR09, Mat02, RM03, DP06, EJ06, HK09, Koy00]. **direct** [Ste03b]. **Directional** [LBI02]. **Directions** [Nei05]. **Dirichlet** [AGV04, BH00b, Wat04b]. **discontinuities** [Kve04]. **Discontinuous** [MM09, AMG07, CCSS02, CC07, Che05a, CS08a, CKS04, CGW09, ES02b, FK07, GS06b, GRW05, GJ00, GNP08, Guz06, Guz08, KKR03, KKR04, KMR09, LT03, PF07, PS03, Ric08, TGO03, Wih06]. **discrepancies** [CS08b]. **discrepancy** [Dic07, SJ07a, FMW02]. **Discrete** [AMR04, Chr04, LX09, MD01, VS07, BLP09, BE05, DDS05, ER03, Eng02, Fan01, FP04, FK07, GSY08, GGGS08, HM06, JL03, KKN01, LM06, Liu00, Liu03, LDH09, NP05, Poz04, Sem02, Sti02, Ye04]. **Discretisation** [Sen07]. **discretisations** [CF01]. **discretization** [AFT05, BP07a, BLP09, BBM05, BH02a, CLP06, DP09, EL02, GOPT02, JSX06, SST00, Ste02, XZ01, Yoo00, Str03]. **discretizations** [AMCJ04, Han06, XZ00, dFMS01]. **discretized** [MP06a]. **discriminant** [JR03]. **discriminants** [BM09, Rob01]. **disjoint** [BF03]. **dislocations** [EF08]. **dispersive** [LL08]. **display** [CJ05b]. **dissipative** [Han06, PF07]. **dissolution/precipitation** [FPF06]. **distance** [Cam04]. **distinct** [BM03, MV04, Nie07]. **distinctness** [ZQ08]. **Distribution** [DG02, BH00b, BP07b, CS04, EGGR02, FS01, GS07, NS01, Shp01]. **distributions** [DMGVJP05, DMGVPR06, DGK05]. **div** [BP04, CGP08, OR04]. **div-curl** [BP04, CGP08]. **divergence** [BU07, BLyS07, CCS06a, Fus08, FNWW09]. **divergence-free** [BU07, BLyS07, CCS06a, Fus08]. **divide** [DJ09b]. **Divided** [FL08, FL07]. **divisibility** [EK05, FS04]. **division** [Gol08, SQO04]. **divisor** [CGO07, Ian00]. **Divisors** [CHGN08, GS04a, Kel07, KM04a, Mor04b, Sim02a]. **dodecahedron** [LX09]. **domain** [AK08, BC02a, Ber04b, BS00, DNR09, GRW05, yGjW09, HB01, HW00, Hua04, Krä05, LT03, PF07]. **domains** [GKY06, Hal01, HR03, Joh00, Mad09, OV06, SS08, ST00, Tii01, Fed07]. **dominant**

[AXY02, DST08, GI04, Ye08]. **double** [DS01, DIM08, GTTD07, Shi04, TSM05, Tsu04]. **double-base** [DIM08]. **doubling** [Ale03, AD05]. **Drinfeld** [vdH04a, vdH04b]. **driven** [CW09]. **dual** [BC07b, GM01a, GH02, HMV09]. **dual-dual** [GM01a, GH02]. **Dyer** [ASwaAbJC05, FLS+01, GJP+09]. **Dynamic** [Shu00, Asl04, FK07]. **Dynamical** [Mär01b, ES02b]. **dynamics** [EF08, Lub05, Rob03, HW06, Lee06].

Each [BC02b, CB02, HSWW01, SW04]. **eddy** [AMR09, BRS05, Hip03]. **edge** [BS08, HSZ08]. **effective** [Har05b, Kad08]. **Effects** [BC02a, Gos02]. **Efficient** [Beb05, BS07b, CR03b, ESU02, Lou07, Mei02, All04, Car04, CF04, DK06, FPF06, Jin06, KE06, Krä05, Wei06]. **Ehrhart** [Bar06]. **eigenfunction** [Rya01]. **eigenspaces** [JS01]. **Eigenvalue** [Rya01, Ste00, AXY02, BKP05, Dav00, Eld02, GO09, GL05, Kul06, QJH04, Rom08, Szy09b, Van06, XZ01]. **eigenvalue/eigenvector** [GO09]. **eigenvalues** [BBG00, Cha05, LHL08, Mel01, MAK+04, The05]. **eigenvector** [Bea00, GO09]. **eight** [CD01, Gir06]. **Eikonal** [Zha05d]. **Eisenstein** [AS09, Ave08]. **elastic** [DD09, HB01, Hua04]. **elasticity** [AFW07, BM05, Wih06, Zho03]. **elastoacoustic** [BR02]. **elastodynamics** [GT01]. **electric** [Chr04]. **electrode** [BRS05]. **electromagnetic** [CC08]. **element** [Ain01, AR08, ACPT07, AFW07, ABH07, ASW09, BO00, BTW03, BGN06, BP07a, BR03, BB03a, BBM05, BR02, BH02a, BM05, BP08, BLyS07, BC07b, BE07, CF01, Car02, Car04, CH06, CDNZ00, CH03, CF04, Che08b, CHX09, CS08a, CW08, CLSS03, CHLS02, DFG+04, Dem04a, Dem04b, Dem07b, Dem07c, DA05, DDS05, DL04a, DL04b, FP04, FHL07, FT00b, GHL09, GS01, GS06b, Geo08, Gir05, HB01, HP02, HP03, He05, HS07a, HR03, HSWW01, Hop05, HSZ08, HX03, KW03a, Laz05, Ley08, Li03a, Li09, Lib01, LE01, LS06a, Mad09, MO09, MW06, MST03, MR09, NW02, Ric02, Rya01, SW04, SS00b, Sol07, Ste03a, Sul05, TW08, Tii01, Wah03, Wah04, WL03, Wie00, XZ00, Yan00, aY07, Zha02b, Zha03, Zha04, Zho03, NTW01]. **element-finite** [GHL09]. **elements** [ABF02, AAW08, BS08, CH08, DL04b, DL05, FT00a, FFGM04, HS07c, HS09b, HX08, LS03a, Lee06, LHL08, LvL09, McS06, MX07, SS06, VS07, Zha05a]. **elimination** [GI04]. **ellipse** [FR05]. **Elliptic** [CC04, LM06, MP01, ACP04, ABH07, ASW09, BBX03, BTW03, Beb05, BBG00, BMSS08, Bre02, Bre04a, BS07b, Car06, Car08, CDNZ00, CH03, Che05a, CL00a, CKK03, CG05, CDG08, CGW09, CDD01, Dem07b, DIM08, DDS05, EK05, FT00b, GHK04, Gra02, GJP+09, GNP08, Guz06, HK09, HSTX04, KLS08, Ku07, LST09, LM00, Li09, LS03b, MR02, MX07, MMRV05, MMRV09, Mor07, SS08, ST00, Sik05, Sol07, SW09c, Wah03, WW07b, WY00]. **elliptical** [SW09a]. **embedding** [HW00, Pac07]. **emphasis** [CD03a]. **Empirical** [FLS+01]. **enclosures** [Dav00]. **endpoint** [Sid09a, Sid09b]. **Energy** [LS06a, Bra08]. **engineering** [Tse04]. **Enhanced** [CLSS03]. **entrant** [ST00]. **entropies** [BC07a]. **entropy** [Ell06, Grü03]. **entry** [BES03]. **Enumerating** [Ber01]. **enumeration** [Eis09]. **epsilon** [Bre04c]. **Equal** [Gol08, GMT08, Pas09]. **equation** [AFT05, AK08, ABM04, BKP08, BH02a, BCS06, BJM00, CJ09, Che08a, Chr04, DP09, DV07, DP06, ER03, EJ06, FK07, FGT02, GH05, yGjW09, HKR07, Kho07, Koy00, LW04, LYX06, Mai07, Mat02, MM09, RM03, Sen07, Ste03b, ST03, Sze06, Ten08, Vac05, WL03]. **equations** [AC04, AMN06, ACFP02, AMR04, ACPT07, AET09, AL05, BKPS08, BJ07, BBM05, BF08, BLyS07, Bul04, BE05, BE07, CHV07, CDNZ00, CS08a, CLSS03, CKS04, CKS05, CDD01, Con05, CdSF09, CLP06, DHS07, DG01, DS00a, DS09, DNR09, Du09, DM09b, ET05, EGGR02, FL09, FNP00, FOS05, FOS09, FV03, FM08, FM02, FT00b, GL00, GP02a, GP08a, Gao03, GS05, GM05, GM07, GP03, GP06a, GJ00, GT01, GK09a, Grü03, GWTW08, HK09, HB01, Han00, Han06, He05, HS07a, He08, HMGR00, HZ04, HSZ08, IHU05, IHvdV08, Jay06, JC05, JSX06, JV05, KKR03, KM05, Kau01, KW03a, Kry07, Ku07, LMR06, Laz01, LWXZ08, Li09, LY00, LL08, LS03b, LLL08, Lub08, Mad09, MK02, Mär01a, MZ09, MR03, MT00, MT09, MX07, MD01, Mor04a, NL05, NP05, OR04, OvdP02]. **equations** [ÖT06, PF07, PS03, Ric08, Sch08, Shu02, Sim02b, Sim05a, SGG07, Sun06, TW08, Tog00, TWW01,

TGO03, Ves02, WW05, qWyG08, Wie00, WH05, aY07, Yoo00, Zha05a, Zha06a, Zha05d, ZL08, Gav06, Hai01, Hop05, Mär01a, Sul05, Wal01]. **equidistribution** [Emm02]. **Equilibrated** [BS08]. **Equilibrium** [BPV03]. **Equivalence** [Kop07a]. **equivalencies** [GSS07]. **equivalent** [Cat05]. **equivariant** [Bre04c]. **Erdos** [BCC06, Luc01]. **ergodic** [Cap00]. **Errata** [DGTZ07a, Kim09, BR05, BR11]. **Erratum** [Bro05a]. **Error** [BJ07, BH02a, BPZ07, BM01, CH06, CL00a, CG05, DD09, DL05, FNWW09, GSY08, HB01, MM01, MS03, MKCI01, NP05, OV06, SL01a, AR08, AMN06, ACFP02, BC02b, BS08, CW09, Cao08, CF01, CB02, Car04, CLY06, CH08, CCSS02, CF04, Che05a, CJ06, Dem04a, DA05, DL07, DM09b, FV03, GS06b, GS04b, GS04c, Guz06, Guz08, HP03, He05, HW02, HSWW01, Hou02, HN00, IHvdV08, KS05, Kim07, KW03a, Kop07b, KO00, LM06, Ley08, Lib01, LS06a, MNS03, NSV00, Not06, PF07, Rep00, Rya01, SW04, Sch08, SvdES03, SKJ02, WW09, XZ04, Yoo03, dFMS01]. **errors** [CSX07, Dem07b]. **Escott** [BLP03]. **essentially** [Ber07]. **estimate** [CW09, Cao08, DM09b, He05, LWXZ08, OV06, Poz04, Suz04]. **Estimates** [Dus02, AMN06, ACFP02, BBX03, BTW03, BM01, CCSS02, Che05a, CL00a, Chr04, DHS07, Dem04a, Dem07b, Dem07c, DL05, FNWW09, Geo08, GS04b, GS04c, Guz06, Guz08, GK09b, HB01, IHvdV08, KS05, KW03a, KO00, Kry07, LM06, Ley08, LS06a, MM01, NP05, PF07, Rya01, Sch08, Sol07, STW03, Yoo03, dFMS01]. **estimation** [AR08, Cof09, Hou02, Kot04, Kot08, NSV00, Rep00]. **estimator** [BS08, Lib01, San08, WW09]. **estimators** [GO09, HSWW01, MNS03, SW04, XZ04]. **Euclidean** [Cer07, NX08]. **Euler** [CCS06b, DH01, Fre05, GOPT02, He08, Kre03, Luo09]. **eutactic** [Bat01]. **Evaluating** [Bro09, GUW00, MN08]. **Evaluation** [KK02a, Kim09, Tsu04, CD08, DK06, KP08, KE06, MM01]. **Evans** [MN08]. **Even** [Doc05, Mel06]. **evidence** [ASwaAbJC05, FLS+01, PT01]. **Evolution** [LMMW00, GM05, Han06, Mee05, Mor04a, MM09, SS09]. **evolving** [Osh01]. **exact** [FL06, HSWW01, SW04]. **exactly** [For02]. **examples** [Bro00a, Li08, Sun06]. **exceeding** [GO08, Jen03]. **exceeds** [Ian00]. **Exhaustive** [GG01]. **Existence** [DK03, Fan01, Ye04, TW08]. **expansion** [Wal00c]. **expansions** [KR01, LEU09, LHL08, LMPV05, Luo09, Sid09a]. **explained** [LvL09]. **Explicit** [ADNT04, BM09, DR01, Gru00, Gur08, SW00, ST02a, BKP08, BS07a, He08, MZ09, Ruu06]. **exponent** [KLKM00, KLKM02]. **Exponential** [HO09, CI00, DR01, MZ09, Nie01, TSM05]. **exponentially** [GM07]. **exponentiation** [BS07a, HGNS03]. **expressed** [Che05b]. **expressions** [CF02]. **Extended** [DGK05, BD01b]. **extends** [ST06]. **extensible** [Dic07, DPW08]. **Extension** [Sid06, Bri07, CDD08, FS05, FK09]. **extensions** [BJA04, Bre04c, Cou06, GRT04, GRT15, Obe05, PR01, Sel01a, Wit05]. **exterior** [CW08, GM01a]. **external** [FM08]. **Extrapolation** [Sid00, Ale03, ASW09, BRZ08, HS07a, Lev05, Sid02]. **extremal** [HMV09, Mos00]. **Extreme** [Mel01, Mei02].

Faà [FL07]. **factor** [GO08, Har05b, Jen03, Ste01]. **Factoring** [Gao03, vdH04a, vdH04b, BLP07]. **factorisation** [GL02]. **factorization** [AGH07, DNR09, GW08, GP06b, Lec06, SY00, vzGG02]. **Factors** [BR98, BR05, BR11, BB08, BCDV00, BM09, For02, Har05a, Har07, IS03, Nie07, Suz04, Suz06]. **fails** [Lov07]. **Failure** [DDS05]. **Families** [iHH05, Tha00, GRT04, GRT15, Lou07, Tha01]. **family** [Ber05, DY01, Dai03, DG04, GL00, Kal05a, Kal05b, Ric02, Tog00, Zha05a]. **fans** [FJT07]. **Farmer** [Cof09]. **Fast** [BMSS08, CM06, Els01, KP08, Mih08, MP06b, NC06, Pap01, BLZ03, KM07, Lee06, LDH09, Mor07, Osh01, ST02c, Zha05d, dHJW07]. **FE** [CLY06]. **Fejér** [Jun06]. **Fekete** [BTW01]. **FEM** [BC02b, CB02, Wih06]. **Fermat** [BR05, BR11, BR98, BCDV00, CMP03, DG02]. **few** [HN07]. **Fibonacci** [MR07a, Vis00]. **field** [BGN06, BM01, CM06, Chr04, CR00, FP04, FHL07, FHR03, FM08, JL03, KK02a, Kim09, Kle06, MMRV05, MMRV09, PR01, Rob01, dHJW07]. **Fields**

[Que09, BJA04, Bau04, BJLS08, Bel04, Ber04b, Bre04b, Bro00a, BS07b, Bro00b, Bro01, Bro05b, Cer07, CK03, Cha09, Chu05, CR00, CDO03, CR03a, DTvW04, ES02a, Fie01, FP06, Fri00, FK01, GP08a, GL02, GWW09, Hak09, JR03, JL03, JBA05, Kit09, LK06, LK08, Lou00, Lou02, Lou07, Nor01, SS00a, Sch00, Sch03, Sel01a, Sel01b, Sem02, Sim02b, Ste01, ST02a, ST02b, ST07, Syl06, Wal00b, Wat04a, YC03, vdH04a, vdH04b, vzG03, vzGN04]. **Fifteen** [For02]. **filter** [Tan06]. **Filtering** [HK08, MKD07, She07]. **filters** [Has06]. **Finding** [Cut01, Zha01, ZT03, Zha05b, DK02, Ned09]. **Finite** [AAW08, BGN06, Gir05, Göb02, HR03, Hop05, KM01, Lee06, Li03a, MST03, Tal03, Wah04, Wie00, Yin04, Zha03, Ain01, AR08, ACPT07, ABF02, AFW07, ABH07, ASW09, BO00, BTW03, BP07a, BR03, BB03a, BBM05, BR02, BH02a, BF08, BM05, BP07c, BP08, BLyS07, BS07b, Bro07, BS05b, BC07b, BE07, CM06, CF01, Car02, Car04, CH06, CGP06, CH03, CF04, Che08b, CHX09, CS08a, CKK03, CW08, CLSS03, CKMP03, CHLS02, DA07, Dem04a, Dem04b, Dem07b, Dem07c, Des04, DA05, DDS05, DM02, DL04b, FT00a, FP04, FHL07, FGT02, FT00b, GHL09, GL02, GWW09, Geo08, GK09b, HB01, HP02, HP03, He05, HS07a, HX03, HX08, Hul00, KLS08, KW03a, KO00, Laz01, Laz05, Ley08, LTWZ09, Li09, Lib01, LE01, LS06a, Mad09, MO09, MW06, Mey08]. **finite** [MX07, MMRV05, MMRV09, MR09, NL05, NW02, OPS06, OV06, Ric02, Rob03, Rya01, Sch00, Sem02, SS00b, Sol07, Ste01, Sul05, TW08, Tii01, TY00, VS07, Wah03, WL03, XZ00, Yan00, aY07, Yoo00, Zha02b, Zha05a, Zha06a, Zha04, Zho03, vdH04a, vdH04b, vzG03, vzGN04]. **finite-difference** [DM02, GK09b, Yoo00]. **finitely** [AE07]. **First** [GK09b, Hol04, KS05, Car04, Gar03, Ku08, MKCI01, Oma01]. **First-hit** [Hol04]. **first-order** [Car04, Ku08]. **fitted** [Nie04b]. **fitting** [Con05, NWW05]. **Five** [Che05b, LS06b]. **Five-dimensional** [LS06b]. **fixed** [Deu02, PBKS08]. **floating** [BPZ07, Eng09a]. **floating-point** [BPZ07]. **flow** [BP07a, BB04b, BB07, CW09, CF01, DD09, DA05, yGlX04, WL00, Enr05, Gir05, GG04]. **flows** [BLP09, GSY08, LE01, Riv07]. **fluid** [Ain01, GG04, yGlX04, Lee06, LS03b, Osh01]. **fluids** [FHL07, Gir05, GGGS08, Lay00]. **flux** [AMG07, KMR09]. **Fokker** [FGT02, yGjW09]. **form** [BBG00, EGGR02, GP08a, GW08, MS06, Veg00]. **formal** [WY00]. **formation** [SGG07]. **forms** [AB04, Ave07, Bat01, Dem07a, FL05, Hur05, PV05, Sim05a, The05, Voi07, WS09]. **formula** [Bos03, FL07, Kin03, Mos00, Yin03]. **formulae** [BD01b, HX01, HN00, KP08, MS03, Not06]. **formulas** [BDMGVO00, DGVN02, DVB08, HN07, JBA05, Not06, Peh08, Spa07, Tsu04, VBV06, Zup08]. **formulation** [AMR09, AVT04, BR02, BM01, FNP00, GM01a, KMR09, LE01]. **formulations** [GH02, Rya01]. **forth** [DL07]. **Fortin** [AR08]. **forward** [GUW00]. **Foundations** [Wah02]. **Four** [LS04, BBvS03, CL01, FMTW06, For02]. **four-cycles** [BBvS03]. **Four-dimensional** [LS04, CL01]. **fourfolds** [GL06]. **Fourier** [Wan07, Kve04, LX09, Luo09, MKD07, Olv09]. **fourth** [CMP03, MX07]. **fraction** [MRW09, iTiY09, TS07]. **fractional** [AMCJ04, CLP06]. **fractions** [Bro01, DS07, Kar09, Kom05]. **fractures** [GKY06]. **fragmentation** [BF08]. **frames** [GGL09]. **framework** [DGTZ07a, DGTZ07b]. **frameworks** [McL04]. **Fredholm** [Chr04]. **free** [BU07, BLyS07, CCS06a, DL04a, FT00a, Fus08, FNWW09, Li03a, Wih06]. **Frémond** [Ste02]. **frequencies** [Fri00]. **frequency** [BLR05, PS03, VD03]. **Freudenthal** [HNSZ08]. **Frobenius** [Gra01]. **Fuchsian** [Ave08, Joh00]. **Full** [VD03, Bre02, Han00]. **Full-wave** [VD03]. **Fully** [CKMP03, FK07, FP04, GOPT02, GSY08, GGGS08, HX01, LM06]. **Function** [TSM09, AMG07, AGG09, BJA04, Bau04, BJLS08, BFM08, BB04b, BB07, Bro09, CDJ$^+$07, CCS06b, CO08, DJ06, ES02a, FPS01, FPS02, Fri00, GS07, Hag09, Hei09, JBA05, KK02a, Kim09, KE06, Kve04, LDH09, MN08, MKCI01, NWW05, Oma01, SW02, SS00a, ST02a, ST02b, Wal00c]. **functional** [Gav06]. **functionals** [LdV06, Rep00]. **functions** [AC08, BD01b, BM02, Buh01, BCBDGV09, Car06, Car08, Chu05, CTZ06, DGVN02, DHB$^+$04, DS01, DK06, DGK05, DL05, FL08, Fre05, FK00, GHK04,

GHK05, GST01, GS02, HJ02, HN00, Ito03, JH01, Kal05a, Kal05b, KK02b, KR01, Kou08, LEU09, LK08, Lev04, LMPV05, MR02, MS03, NWW05, Nie01, Not06, PWZ08, QV05, Seg01, SW09a, SW09b, SY00, Sun05, Zha02b, ZL08, ZCT09, BH00b, Car06, Lou00, Sto07, Wat04b, dB00]. **Fundamental** [Coh02, HJ02, Joh00, Smy09].

G. [Cri04]. **Galerkin** [AD05, Bea00, Beb05, BE05, CCSS02, CC07, Che05a, CS08a, CKS04, CDG08, CGW09, DM02, DM09b, EGCZ04, ES02b, FK07, GS06b, GRW05, GNP08, Guz06, Guz08, HS01, KM05, LT03, LMMW00, MM09, PF07, PS03, Ric08, Wih06, dFMS01]. **Galois** [All04, CR03a, FFGM04, LS09, OvdP02, Smi00]. **gamma** [Kou08, QV05]. **gaps** [Cut01]. **gauge** [NP05, WL00]. **Gauss** [BTW01, BDMGVO00, CGGR00, DVB08, EG04, Gur06, HN00, MN09, MS03, MSP08, Qn00, Sid09a, Sid09b, VBV06]. **Gauss-type** [BDMGVO00]. **Gaussian** [Ber06, BD01b, DGK05, GI04, iHH05, Hou02, JL03, LMPV05, OS09, Spa07, Tha00, Tha01]. **gcd** [Möl08]. **Gegenbauer** [ADGR04]. **General** [CTZ06, ZCT09, ACFP02, ACC$^+$08, Beb05, GK09a, JL03, JS09, Ket09, KM07, Kle06, SJ07a]. **generalization** [iHH05]. **generalizations** [vdP05]. **Generalized** [Laz01, BR98, BR05, BR11, CS08b, Doc05, DGTZ07a, DGTZ07b, DG02, FG06, yGjW09, Hei09, JHL08, Kre03, Ley03, MN09, Nie04b, Rom08, Sid02, Spa07, SQO04, Zan04]. **generated** [AE07, FK00, LS04, Sun09]. **generator** [CS04, FS01, FPS01, FPS02]. **generators** [BDF08, BGPGS05, GP02c, Ley03]. **generic** [Sut09, iHHR08]. **Genus** [GG09, Eng02, FLS$^+$01, GTTD07, GJG03, GL06, KK02b, ST03, Voi09, Wen03, vW00]. **Geometric** [Hai01, Ves02, GP08b, iHH05, JKKZ07, Ney02, Nie04b, ST06, Veg00]. **geometries** [SW09a]. **Geometry** [Boe01, Osh01, Coh00]. **GF** [CD01]. **ghost** [LS03b]. **giant** [Sti02, Ter00]. **giant-step** [Sti02, Ter00]. **Gilbert** [BKP08, NX08]. **Ginzburg** [DJ05]. **given** [PS02a, PR01, VD03]. **Global** [HP05, LY00, Ruu06, TX02, WLQ08, Bre04c, Liu03, Shp05]. **globally** [CCS06a, HSWW01, ZL08]. **GLP** [ESU02]. **Godunov** [AMG07, Ell06]. **Golay** [BF04]. **Goldbach** [Ric01]. **Good** [SJ07a, DK04, DPW08, SR02]. **Gosper** [CCG08]. **GR** [Szy09b]. **Grad** [OR04]. **Grad-div** [OR04]. **gradient** [CLY06, DY01, Dai03, Dem07b, GH02, HSWW01, LMR06, Li08, SW04, ST00, Ste03b, Sya05, TY00, WLQ08]. **graphs** [AE08, BJM00]. **greatest** [Har05b]. **Greedy** [MV04]. **Green's** [AGG09]. **GREP** [Sid02]. **grid** [EL02, GK09a, JSX06, Ste03a, XZ00, XZ01]. **grids** [BC02b, CB02, Car04, CKK03, Ell07, HX03, HX08, KR05c, MR03, Sau04, XZ04]. **Gröbner** [FG06, ER07, FJT07]. **group** [ACP04, BDF08, BS05b, CI00, CCIL02, Deu02, FFGM04, Fri00, FK00, Gir06, Han00, HPP03, HR08, KM07, Mey08, Mic06, Olt07, ST07]. **groups** [AE07, Ave08, BEFG05, CMT04, DA07, EO03, Göb02, Hul00, IK05, Joh00, LS09, Mey08, OvdP02, Smi00, Wit05, Zan04]. **Guide** [Ste00, Eld02].

h [Zup08]. **h-p** [Zup08]. **Haar** [HHY04]. **Hadamard** [FG04]. **Hamburger** [CF02]. **Hamilton** [ACFP02, BJ07, MK02, TGO03]. **Hamiltonian** [HW06, HLS06]. **Hamming** [Sti02]. **hand** [KL02]. **Handbook** [Lay00, Mic06]. **Hardy** [FL06]. **harmonic** [BKS09, BP07a, BP07c, BP08, BLyS07, CC08, CGO07, GP03, GS04a, Jia05, PS03, SS04, Zha02b]. **harmonics** [ST02c]. **having** [RW05, Sel01b]. **heat** [BLP09, DP09]. **Hecke** [Ahl08, FJ02, Lou00]. **height** [Doc01]. **heights** [Bar04, BvL07, Dre03]. **Heilbronn** [BSO07]. **Hellman** [KM04b]. **Hensel** [GL02, Lec06]. **Hermite** [ADGR04, DVM02, FGT02, GS02, GHL06, HYP04, HYX05, Jun06, Jüt01, SJ07b]. **Hermitian** [BGL07]. **Hessenberg** [WG02]. **Heterogeneous** [ET05, MZ07]. **Heun** [Mai07]. **Heuristics** [KW07, HM06, ST02a]. **hexagonal** [MtR04]. **Hidden** [HGNS03, SW05]. **Hierarchical** [GKY06, Dav00]. **High** [ACP04, CGP06, GG04, dRvdL09, BKPS08, BJLS08, BG06, BM08, Des01, Eng02, JW03, Kho07, Kir03, Sim00, TS07, Ye08]. **high-genus** [Eng02]. **High-order** [GG04, BM08, TS07]. **high-performance** [Sim00]. **Higher** [How00, Laz05, Cao08, CS08a, DA07, GUW00, HN07, VS07, BC02b]. **Higher-order** [How00, Laz05, VS07]. **highly** [AET09, HV07, IN06, Per03, VK09]. **Hilbert**

[Brö08, CR00, DVM02, Dem07a, Deu02, Du09, GM05, GL06, NC06]. **Hilliard** [FK07]. **hit** [Hol04]. **hodograph** [Jüt01, SJ07b]. **holistic** [Rob03]. **hollow** [DJ05]. **holomorphic** [BB04b, BB07]. **homogeneous** [LB01, TV06]. **homogenization** [MZ07]. **homographic** [BGH09]. **homomorphic** [Hul00]. **Homotopic** [PKRK06]. **homotopy** [LS09]. **HP** [PF07]. **hundred** [Ian00]. **Hunter** [HKR07]. **Hurwitz** [GS07]. **Hybrid** [BR03, GGL09, Dai03, Zho03]. **hybridizable** [CDG08]. **hybridization** [CG05]. **Hybridized** [CCS06a, CC07]. **hydroelasticity** [Rya01]. **hyperbolic** [CGP06, CLSS03, FR02, GHL06, GL05, Kir03, LTWZ09, LMMW00, Ric02, Ric08, WT07]. **hypercube** [FMW02]. **hyperdeterminant** [HSYY08]. **hyperelliptic** [BJLS08, BS09, Eng02, ES02a, GS05, GTTD07, Oyo09, Sik01, ST02a, Wen03]. **hyperflexes** [Gir06]. **hypergeometric** [Car06, DS07, GST07, KE06, LMPV05, OS09]. **hypersingular** [SL01b]. **hyperspheres** [Nie04b].

ideal [BDF08, ST07, Wei06, dlM02]. **ideals** [ES02a, GWW09]. **idempotents** [Mey08]. **Identification** [AGH07]. **Identifying** [DST08]. **identities** [BB03b]. **if** [Peñ04]. **Igusa** [MR02]. **II** [BC02b, BB01b, Boy02, Bro01, CDNZ00, Gur08, HP03, LZ09, RW05, RS03, SW04, WW07b, Zha00, ZT03, ZCT09]. **III** [EL02, Peh08]. **ill** [DD08, Kal03, MN09, MP06a, Qn00]. **ill-posed** [DD08, Kal03, MN09, MP06a, Qn00]. **image** [LLT06, Ves02]. **images** [Hul00, She07]. **imaginary** [Bro00b, Wat04a, YC03]. **immersed** [Fed07]. **impedance** [DM02]. **implementation** [AMR04, FHR03]. **implementations** [Lev04]. **Implementing** [Mor07]. **Implicit** [IHvdV08, AC04, Asl04, BP07a, BCS06, He08]. **implicit/explicit** [He08]. **Implicitly** [Ste00]. **imposed** [AFW07]. **Improved** [IHU05, Ste03a, GP08b]. **improvement** [EH09]. **Improvements** [JL03]. **Improving** [GLV00, QS00]. **incompressible** [BKPS08, BM05, CF01, CKS05, Gir05, GG04, GSY08, yGlX04, Lee06, LE01, MKD07, WL00]. **indefinite** [GP03, JH01, TSM05]. **independence** [Emm02, Wu03]. **Index** [Ale03, CD05, GP01, GTTD07, Jay06, Kau01, MRS02]. **index-** [MRS02]. **Index-doubling** [Ale03]. **indicators** [BH02a]. **individual** [GJP+09]. **inequalities** [BW00, Bre04b, BR09, DFG+04, MNW01, MNW02]. **inequality** [MW06]. **inequivalence** [FG04]. **inexact** [Cat05, WLQ08, Zen05]. **inextensional** [HP02]. **Inf** [SW09b]. **Inf-sup** [SW09b]. **infinite** [DG04, EZ06, yGlX04, yGjW09, HW02, Kal05a, Kal05b, Kom05, MAK+04, Sen07, Sha01]. **infinite-dimensional** [EZ06]. **infinity** [Obe05]. **information** [LMR06, WW07a]. **inhomogeneities** [AGH07]. **inhomogeneous** [GST01]. **initial** [AMCJ04, BCS06, CP02, GHL06, He08, dFMS01]. **initial-boundary** [BCS06, GHL06]. **inner** [Dab05]. **Instability** [Zho05a]. **Integer** [Dra06, FRSÉ06, BB01a, BPTJ07, BPP03, BM03, CDJ+07, Cre08, Fla09, HS06b, HS08, JL03, MRW09, Möl08, RW07, ST03]. **integers** [AS09, ABP06, BB08, FR05, Fla09, For02, KK02a, Kim09, Suz04, Suz06, WS09]. **Integral** [Not06, Bea01, BS05a, Chr04, Cou06, DHS07, Du09, EO03, Gav06, GS04a, HK09, HZ01, Hou02, KKR03, Kau01, Luo09, ÖT06, SST00, WT07]. **integral-algebraic** [Kau01]. **Integrals** [Fre05, Car06, GST01, Gra02, HV07, IN06, MM01, Pap01, SL01b, Sha01, Sid09a, Sid09b, Tem02, Tem03]. **Integration** [GWTW08, BM02, DKPS05, FPF06, GLPW04, GW06, GS04c, Hai01, HSW04a, HSW04b, JH01, Kre03, MW04, SKJ02, TSM05, Wan03, WW01, YH05, Sid06, Gau00]. **integrator** [GT07]. **integrators** [CHV07]. **interface** [DL07, Fed07, FP04, Krä05, KS05]. **interface-acting** [Krä05]. **interfaces** [Fed07, LS03b, Osh01]. **interior** [BE07, FOS05, FOS09, Fre04, QS00]. **interior-point** [Fre04]. **intermediate** [Kov07]. **interpolant** [HYP04]. **interpolants** [Fus08, FNWW09]. **interpolated** [DM08]. **interpolation** [BD01a, Cao08, CSX07, GMT08, GS02, HNSZ08, JKKZ07, Joh01, Jun06, Jüt01, Ker03, LDH09, Sau04, SW02, SJ07b, TT00, Yoo03]. **interpolations** [GWTW08]. **interpolatory** [BU07, HJ06, Not06, SL01a]. **intersection** [BP07b]. **intervals** [BDMGVO00, Kad08]. **introduction** [Shp07, Szy09a]. **invariant**

[DJ06, FK09, NC06]. **invariants** [FK01, Göb02, KMKK03, KW07]. **Inverse** [DFG+04, Geo08, SW02, Van06, Bur03, Car08, CDW07, FL08, GI04, Ney02, RS03]. **Inverse-type** [Geo08]. **Inversion** [BDMM01, Beb05]. **inversive** [Emm02, NS01]. **inverting** [CCS06b]. **investigations** [BLP03]. **Involutions** [IK05]. **involving** [Dab05, Fed07, Kou08]. **irrationality** [Har09, MaVZ06]. **Irreducibility** [Wal00b, Ahl08, FJ02]. **Irreducible** [vzG03, Tha00, Tha01]. **irregular** [Fed07, HSWW01, Kel07, SW04]. **irregularities** [BH00b]. **irregularity** [Hol02, Hol04]. **isogenies** [BMSS08, LM00, vW00]. **isogenous** [Sik05]. **isogeny** [Hur05]. **Isomorphisms** [Cou00]. **isoperimetric** [Shp05]. **isothermal** [GHL09]. **isotropic** [Pap01]. **iterands** [GHS07]. **Iterated** [DJ06, BM09, Sid03]. **iterates** [AL03, Nor01]. **iteration** [COS09a, CDNZ00, HSTX04, Ney02]. **iterations** [BEGG08, COS09b]. **Iterative** [Par00, CPTZ04, GLFE06, Lee06, MK02, Seg01, Szy09a, TWW01, Zul02]. **iteratively** [IHU05, Qn00]. **Iwasawa** [FK01, FK09].

Jack [DK06]. **Jacobi** [BJ07, ACFP02, CdSF09, DGVN02, Kve04, MK02, Rom08, ST06, Tha01, TGO03, qWyG08]. **Jacobi-type** [DGVN02]. **Jacobian** [BEFG05, Car06, Car08, GG09]. **Jacobians** [Eng02, FLS+01, KM07, Oyo09, Sut09]. **Jacobsthal's** [Hag09]. **Jacquet's** [Bro09]. **Jantzen** [Boe01]. **jitter** [Dab05]. **jump** [Kve04]. **justification** [Zha02b].

K3 [Bar04, BvL07, LvL09]. **Kac** [Bos03]. **Kalantari** [Jin06]. **kangaroo** [ST02b]. **kernel** [Bro00b, Du09, Gro04, NC06, ÖT06, YC03]. **kernels** [Bro05b, KKR03, MSP08]. **key** [Shp04]. **kinds** [Bro04, Bro05a, Zha06b, Zha07]. **kinetic** [ADNT04]. **Kirkman** [CCIL02]. **Klein** [Kar09]. **Kloosterman** [Gur08]. **knots** [Sun09]. **known** [Gar03]. **Kolmogorov** [FL06]. **Korn** [Bre04b, MW06]. **Korovkin** [Cap00]. **Kreiss** [EZ06, STW03]. **Kronrod** [CGGR00]. **Krylov** [Szy09b]. **Kummer** [CDO03, DG04, DST08]. **Kutta** [AMCJ04, CP02, FS05, GP00, Han06, HLS06, Jay06, Li00, LYX06, MZ09, Ruu06].

lacunary [FS04]. **Lagrange** [BLP09, BRS05, HW00, HNSZ08, HS01, Sau04]. **Lagrangian** [ACC+08, BM08, DL07]. **Laguerre** [yGlX04, GWTW08, yGjW09, Moo04]. **lambda** [GLV00, KW07]. **Lanczos** [Mee05, ABFH00]. **Lanczos-type** [ABFH00]. **Landau** [BKP08, DJ05]. **Landen** [BM02, MM07]. **Laplace** [BH02a, GP06a]. **Laplacian** [CLY06, Obe05]. **Large** [Ste00, BTW05, Bel04, Ber05, BES03, Dus02, GTTD07, LMR06, Sto07, Suc01, Suz04, Suz06, Sya05, The05]. **Large-Scale** [Ste00, LMR06]. **largest** [CGO07, Ian00]. **last** [HR08, ST06]. **Latin** [FMW02]. **Lattice** [BKPS08, CL00b, CL01, DK04, DKPS05, Dic07, ESU02, LS04, LS06b, MtR04, NC06, Pil04, SJ07a, SR02]. **Lattice-Boltzmann** [BKPS08]. **lattices** [AS09, DPW08, Kin03, SSV09]. **Laurent** [DMGVJP05, DMGVPR06]. **Lavrentiev** [KW03a]. **law** [AMG07, BB06]. **laws** [Bos04, BPV03, CKMP03, Fan01, FR02, Gos02, KKR04, KMR09, KM01, Kir03, KNP03, KO00, LTWZ09, OV06]. **Lax** [Des04, Ell07]. **layer** [CC08, KLS08, KP09]. **layer-adapted** [KLS08]. **layers** [FOS05, FOS09]. **LCG** [ESU02]. **LDG** [CCS06a, CKS05, CDG08]. **LDG-hybridizable** [CDG08]. **leading** [Ste03a]. **least** [BKP05, CDW07, DL04b, EG04, Gib09, Gir06, Ku07, Ku08, Nie07, Nie04b, PS02b, PS02a, Pas09, Yan00]. **least-squares** [BKP05, DL04b, Ku07, Ku08, Nie04b, Yan00]. **Lectures** [Tse04, Str03]. **Legendre** [yGlX04, yGjW09, HK08, Sid09a, Sid09b]. **Lemma** [CCG08]. **length** [HMV09, PBKS08, ZQ08]. **lengths** [BF04]. **less** [vdPtRW01, vdPtRW03]. **Level** [Asl04, Osh01, CJ05b, DL07, FJ02, LLT06, PV05, TGO03]. **levels** [FMTW06]. **lie** [Bos03, FR05, CI00, CMT04, OvdP02, Zan04]. **Lifshitz** [BKP08]. **lifting** [GL02, Guz06, Lec06]. **like** [BM00a, KL02]. **limiter** [PT06]. **Limiting** [Bou06, DGK05]. **limits** [FP04, KR05c, Sid00]. **line** [Dam04, DVM02, WLQ08]. **Linear** [BB03b, BB06, KM04a, WW05, AFW07, BBG00, BS05a, CP02, CD03a, CD03b, CF04, CDW07, DM08, Dem04b, EGCZ04, Eng09b, Flo03, GT07, GJ00, GP02c, HB01, HR06, JC05, Ket09, Kry07,

LM06, LdV06, MZ09, MP06a, MR09, Osw08, OvdP02, ÖT06, Rob03, Rya01, SW04, Sim00, Suc01, TY00, Wih06, Wu03]. **Linearized** [COS09b, COS09a]. **Linearly** [AC04]. **Links** [YZ08, HS07b]. **Liouville** [BFM08, Cha05, ST06]. **Lipschitz** [Obe05]. **Lipschitzian** [AC08]. **list** [GP08b]. **Littlewood** [BG06, DJ09b]. **LLL** [HK09]. **LLL-reduction** [HK09]. **Lobatto** [BTW01, HN00]. **Local** [Dem07b, DQR04, EG04, GMT08, Guz08, LTWZ09, MNS03, Sun09, XZ00, AGG09, Bro01, CCSS02, Che05a, CKS04, EF08, GS06b, GNP08, HNSZ08, KMR09, Kit09, LS03a, LW07, LB01, MR02, PS03, Wal00b, Zho05a]. **Localization** [Gos02, Oma01]. **Localized** [Dem04a, Dem04b, Dem07c]. **Locally** [Ros05, BLyS07, CKS05, Kim07, Ste08]. **Locking** [FT00a, Wih06, DL04a]. **Locking-free** [FT00a, Wih06, DL04a]. **logarithm** [HM06, Sti02]. **logarithmic** [Bra08, Sid02]. **logarithms** [BB06, Eng02, JL03, MaVZ06, Sch00, Wu03]. **logs** [Sem02]. **Long** [BO02]. **Long-term** [BO02]. **Low** [CC06, CF01, CD05, McS06, PS03, Sol07, Sti02, CB02]. **low-frequency** [PS03]. **low-order** [CF01]. **Lower** [AL03, BS00, DM09a, FMTW06, Li06, HS07c, Pil04]. **Lubkin** [Sid03]. **lubrication** [Grü03]. **Lucas** [Bay08]. **Lucasian** [BB04a]. **Lusztig** [Boe01].

Maass [FL05, Str08, The05]. **Macaulay** [JV05]. **Macro** [LS03a, SS06]. **Macro-elements** [LS03a, SS06]. **magnetohydrodynamics** [Wie00]. **Magnus** [Dam04, GT07]. **Magnus-type** [GT07]. **Mahler** [FRSÉ06, RW05]. **making** [CO08]. **Malliavin** [KH01]. **manifolds** [KS06, Moo04, Tun09]. **Manin** [Dem07a]. **many** [vdGvdV00]. **map** [BP07a, BLP09, Fie01]. **mapping** [Lui03]. **mappings** [Flo03]. **marching** [Osh01]. **Marcinkiewicz** [MNW02, MNW01]. **Markov** [Tal03, Mor04a]. **Marsden** [Yin03]. **martensitic** [Li03a]. **Martinet** [DJ09a]. **masks** [Zho05b]. **mass** [GGGS08, Kin03]. **Mastroianni** [Cri04]. **Match** [JL01]. **matched** [CC08, KP09]. **material** [Lin03]. **materials** [Osh01]. **Mathematical** [Vac05, Fre04, Enr05, FL09]. **Mathematics** [Wal00a, Wah02]. **Mathieu** [KR01, LEU09, SW09a]. **Matlab** [Shu01].

Matrices [She07, Bai06, BGL07, BDMM01, BEGG08, BES03, CX09b, Dem07a, Els01, FG04, Faß01, Huh03, JV05, KLS09, LS04, Mel01, MAK$^+$04, Tha00, WG02, Ye08]. **Matrix** [Cal09, AE07, Beb05, BLP08, EO03, GI04, IK05, IHU05, KE06, Li03b, Li06, Mel06, Peñ04, STW03, SY00, Szy09b, Tse08, Tun09, AXY02, Peñ04]. **maximal** [RW07, ZQ08]. **Maximum** [BTW03, Kop07b, MR03, MSP08, BE05, DDS05, KKN01, TW08, VS07]. **Maximum-norm** [BTW03]. **Maxwell** [Hop05, BKP05, BP07c, BP08, BLyS07, GP03, GP06a, HZ04, HSZ08, IHvdV08, LY00, LL08, MD01, PF07, PS03, Sch08, TWW01, Zha04]. **mean** [FV03, GS04a]. **measure** [FRSÉ06, Gos02, RW05, Wu03]. **measures** [Cao08, DJ06, HN07, MaVZ06, PB03]. **mechanical** [Arn01, BS04]. **mechanics** [Osh01, Ain01]. **media** [LL08, Riv07]. **meet** [Mih08]. **Meinardus** [Li08]. **Mellin** [Tem02]. **memory** [MM09, Ste02]. **Merging** [Car02]. **merit** [ZL08]. **Mersenne** [KLKM02, KLKM00]. **Mertens** [LZ09]. **mesh** [FK07, KM05, WL03, Zha03]. **meshes** [CSX07, DFG$^+$04, HSWW01, KLS08, SW04]. **message** [VS02]. **method** [AMN06, AC08, ABFH00, ACPT07, AET09, ABH07, ASW09, AGG09, AD05, BO00, BW00, Bea01, BP07b, BR02, Ber04b, Bos04, BM05, BKP05, BLyS07, Bro07, CH06, CCSS02, Cha05, CH03, Che05a, CS08a, CGO05, CKS04, CKS05, CDG08, CGP08, DFG$^+$04, Dam04, DVZ00, Dav00, DS00a, Des01, DNR09, DM02, EL02, EGCZ04, EG04, ES02b, EH09, Fed07, FP04, FGT02, FM08, FM02, GHS07, GP01, GH02, GRW05, GNP08, yGlX04, yGjW09, Guz08, Hal01, He05, HS07a, HNSZ08, HSZ08, HX03, HSTX04, JS01, JSX06, JL01, JL03, JS09, KM05, KS05, KLS08, Krä05, KL02, Ku07, Ku08, Kul06, LMR06, LEU09, LWXZ08, Ley03, Ley08, LB01, Li08, Li09, Lib01, LLT06, Lin09, LX01, LE01, LS03b, LLL08, Mad09, MN09, McL04, Mee05, MZ07, MR09, MR07b, MM09, NL05]. **method** [OV06, PF07, PS03, Qn00, Ric08, SS00b, ST00, SST00, SvdES03, Smy09, ST02b, Ste03a, SW09c, Sya05, TT02, TSM05, Tes01, Tii01, TWW01, Wah03, WL00, qWyG08, WLQ08, Yin04, Yoo00, Zha05d, Zho05a, ZL08, Bul04, aY07].

Methods [Shu00, AMG07, Ain01, AC04, ACFP02, AFW07, Asl04, BGL07, BR03, BC07a, Bur03, BM00b, BE07, Cal09, CP02, CD03a, CD03b, CCS06a, Cat05, CC07, Che08b, CHX09, CL00a, CKK03, CPTZ04, CLSS03, CG05, CGW09, Coh00, CDD01, CHLS02, DHS07, DY01, Dai03, DS00b, Dem04a, Dem04b, Dem07b, Dem07c, DV07, Du09, DL04b, DGTZ07a, DGTZ07b, DL07, ET05, Enr05, Fao09, FK07, FS05, Fre04, GS01, GS06b, Gav06, Gir05, GP00, GHL06, GG04, GS04b, GSY08, Guz06, HK08, Hip03, HLS06, Hop05, HZ01, HS01, HR06, IN06, IHU05, Jay06, Kal03, Kau01, Ket09, Kim07, Kir03, KW03b, Lay00, Laz01, LBI02, Lev05, Li00, LYX06, LS06a, Lub08, LMMW00, MN08, MW06, Mär01a, MZ09, NW04, NP05, Osh01, Par00, Ric02, Riv07, Rom08, Ruu06, SS09, Shp05]. **methods** [Shu01, Sid00, Ste03a, Sul05, SQO04, TX02, Wah04, WL03, Yan00, Zha05c, Zho03, Zul02, Ste00, Laz01, Laz05, Rei05, Szy09b, Wan07, xY01]. **microfiche** [BR98]. **microstructures** [Li03a]. **mildly** [HX08, XZ04]. **Mindlin** [CH08, DL04a, FT00a, HS07c, HS09b, Lib01, McS06]. **minima** [Cer07]. **minimal** [BF03, DS07, DST08, Gur06, Hol03, Ito03, Ned09, Sto03]. **Minimality** [MS06]. **minimax** [Zho05a]. **minimization** [COS09a, TT02]. **Minimizing** [LB01, CSX07, HP05, Obe05]. **mining** [Cal09]. **minmod** [PT06]. **MITC** [CH08, HS09b]. **Mixed** [AFW07, CKK03, CHLS02, yGlX04, AMR09, BBG00, CB02, CH06, CH03, Che08b, CHX09, CG05, CGP08, CDW07, Dem04a, DL04b, FNP00, GM01a, GH02, Kim07, Lau01, Lib01, LS06a, Yan00, Zha05a]. **Möbius** [Nor01]. **mod** [BLZ03, CC04]. **model** [BGN06, DJ05, FP04, FHL07, Lin03, SGG07, Ste02, Yin04]. **modeling** [BCS06, Veg00]. **modelling** [EF08]. **models** [Cat05, GGGS08, Rob03, Sik05]. **moderate** [CL01]. **modern** [Tse04]. **modification** [KM05, KL02, Ter00]. **Modified** [Ten08, Zup08, CHV07, LYX06, Olv09]. **Modular** [BS07a, GS05, GJG03, ASwaAbJC05, BR09, Dem07a, Deu02, Eng09b, FLS+01, FK00, GG09, GL06, HK00, Hur05, Ito03, McL04, Oyo09, PV05, ZQ08]. **module** [CR03a]. **modules** [vdH04a, vdH04b]. **moduli** [Kop07a, WS09]. **modulo** [PS02b, Per03, ZQ08]. **modulus** [Gib09, MSP08, RW07]. **molecular** [Lub05]. **Moll** [CX09a]. **mollifier** [NL05, Tan06]. **moment** [Ber06]. **moments** [Doc05, Gol08]. **Monegato** [Cri04]. **Monic** [BPP03, HS06b, HS08]. **monomial** [HR08, HS03]. **monotone** [BJ07, BCS06, CDNZ00, Liu03, Ten08, ZL08]. **Monotonicity** [FP00, Kou08, CX09a, Fan01, HR06, Ket09]. **Monte** [GLPW04, HW02, LW04, Lin09, MW04, Pap01, SKJ02, Wan03]. **Montgomery** [McL04, Mih08]. **Moody** [Bos03]. **Moore** [CDW07]. **Morley** [Ste03a]. **mortar** [BH02a, DFG+04, HSZ08, SS00b]. **most** [VS02, Voi09]. **motion** [Arn01]. **multi** [BC07a, CJ05a, CJ05b, Gur08, HLS06, KO00, LB01, Ste03a]. **multi-dimensional** [Gur08]. **multi-entropies** [BC07a]. **multi-grid** [Ste03a]. **multi-homogeneous** [LB01]. **multi-level** [CJ05b]. **multi-symplecticity** [HLS06]. **multi-wavelets** [CJ05a]. **multidelays** [Sun06]. **multidimensional** [CS04, Kar09, KM01, iTiY09, TS07]. **multigrid** [BZ01, Bre02, Bre04a, DGTZ07a, DGTZ07b, GP06a, Kal03, NW04, Wan07]. **Multihomogeneous** [DS00b]. **Multilevel** [MO09, Shu00, BM00b, DD08, Hip03, HSTX04]. **multiphase** [Riv07]. **multiple** [ABFH00, Grü03, Kir03, MAK+04, Zen05]. **multiplication** [BPZ07, GG09, McL04, Per03]. **multiplicative** [HPP03, SW09c]. **multiplier** [HW00, Str08]. **multipliers** [BLP09, BRS05, HGNS03]. **multiresolution** [CKMP03]. **multiscale** [AET09, CH03, ET05, Mad09, MZ07]. **multistep** [CD03a, CD03b, HR06, Li00]. **Multivariate** [HYP04, CTZ06, DKPS05, Gao03, GW06, GS04c, HSW04a, HMZ03, HV07, IN06, LFHL01, LDH09, Nei05, Wan03, WW07a, ZCT09]. **Muskhelishvili** [DV07].

natural [GM01b]. **Navier** [AL05, ACPT07, BKPS08, BC07a, CKS05, DM09b, GRW05, He05, HS07a, He08, LLL08, NP05]. **Near** [Sug03, Ker03]. **near-interpolation** [Ker03]. **nearest** [MRW09]. **nearly** [BM05, HSZ08, Ned09]. **negative** [KK02a, Kim09, Smy00]. **Neumann** [BC02a, HR03, Sol07]. **never** [Lov07]. **Newman** [BM03, DJ09b]. **Newton**

[Bul04, BP07b, Cat05, DS00b, DS00a, EG04, KL02, Kre03, LBI02, MN09, Mel06, Qn00]. **Newton-like** [KL02]. **Newton's** [EH09]. **Nicolson** [AMN06, HS07a]. **Niederreiter** [FHR03, YH05]. **nilpotency** [FFGM04]. **nine** [Nie07]. **Nitsche** [JS09]. **no** [DJ09b, Kin03]. **Noether** [CF02, iHHR08]. **noisy** [HGNS03, MP06a]. **nomials** [KLKM00, KLKM02]. **Non** [Oyo09, AC08, ABM04, BGL07, CK03, DFG+04, EF08, GP01, He08, PF07, QS00]. **non-abelian** [CK03]. **non-dissipative** [PF07]. **non-Hermitian** [BGL07]. **Non-hyperelliptic** [Oyo09]. **non-interior** [QS00]. **non-Lipschitzian** [AC08]. **non-local** [EF08]. **non-quasi-uniform** [DFG+04]. **non-reflecting** [ABM04]. **non-smooth** [GP01, He08]. **nonadjacent** [MS06]. **noncoercive** [Ku07]. **Nonconforming** [DL04b, MX07, AR08, Bre04a, BLyS07, CB02, DA05, HS07c, LHL08, MW06, NTW01, Ste03a, WL03]. **nonconservative** [CGP06]. **nonconvex** [WLQ08]. **none** [Che05b]. **nonexistence** [Bar04, Sim05b, Syl06]. **Nonholonomic** [Arn01]. **Noninterpolatory** [HYX05]. **Nonlinear** [BC07a, HS09a, AC04, ADNT04, BGPGS05, Bul04, CJ06, Con05, DY01, DK03, EG04, GS01, GM01a, GM07, GOPT02, Han06, HSTX04, KM05, KO00, LMR06, Lin09, Lub08, MN09, OV06, Qn00, QS00, Sze06, Yan00, ZL08]. **nonmatching** [HX03, MR03]. **nonmonotone** [GNP08]. **nonnegative** [Zho05b]. **nonnested** [DGTZ07a, DGTZ07b, NW04]. **nonoscillating** [GST01]. **nonoscillatory** [KNP03]. **nonoverlapping** [BS00, GRW05, HS09a, Hua04]. **nonsingular** [Bai06, FNP00, Hou02, Peñ04]. **nonsmooth** [Beb05, DK03, GS02, dFMS01]. **nonsolvable** [Syl06]. **nonsplit** [CC04]. **nonstaggered** [CKK03]. **nonstationary** [Yan00]. **nonsymmetric** [BPV00a, TY00]. **Nontrivial** [CR03a, LvL09, CCIL02, Str08]. **nonuniversal** [GW06]. **nonzero** [CHS09]. **norm** [BTW03, COS09a, CLY06, CSX07, GSS07, Kop07b, LS06a, MR03, Sim02b, dlM02]. **Normal** [Cou06, HS03, CK03, Huh03]. **normalizer** [iHHR08]. **norms** [BPV00b]. **note** [Cri04, vdP03]. **Notes** [Zha06b]. **NUCOMP** [vdP03]. **Number** [Wal00a, Bar04, BvL07, BGPGS05, Bro00a, Cer07, CK03, Cha09, CGO07, CMP03, Dég01, DIM08, DTvW04, FP06, GP08a, Har05a, Har07, Hol03, HGNS03, Ian00, IS03, JL03, Kle06, LK06, Li06, Lou02, Lou07, Nie02, Nie04a, PBKS08, Sch00, Sel01b, SW05, Shp07, Sim02b, Sto03, Suz04, Suz06, Syl06, Vis00, YC03]. **numbers** [AFH07, BJA04, BB01b, BP07b, Ber05, BR98, BR05, BR11, Boo06, BH02b, BCDV00, BJM00, Che05b, Coh09, CS04, CL00b, CDW07, Dre03, DM09a, DG02, Emm02, GS04a, GO08, GP02b, Hak09, Hei09, Hol02, How00, Jen03, JBA05, Kel07, KW07, LK08, LB01, Lou00, Lou02, Lou07, Lov07, Mor04b, NS01, Nie07, PS02a, Per03, PT01, Sch03, Sem02, Smy00, ST02a, Tha00, Wat04a, Wu03]. **Numerical** [ABM04, BKP08, BRS05, Ber06, Bri01, CHV07, Fed07, FR02, Gir05, GJ00, Hua04, JH01, Laz01, LP06, MT00, Mor04a, PS02a, Rei05, Shu00, Sim00, TSM05, ACFP02, BCL08, CC07, CGO05, CHLS02, DG01, DMGVPR06, FL09, FPF06, FM02, Gos02, Hai01, Kau01, KK02b, Lay00, Lin03, LHL08, MN08, Mär01b, MM01, PT01, RS01, Shu02, Sid06, Sun06, Tse08, WY00, LZ09]. **Numerically** [GST07]. **Nyström** [KKR03].

observation [MW06]. **Obstacles** [KM04b]. **obtain** [LEU09]. **obtained** [iHH05]. **obtaining** [Dav00]. **octic** [Syl06]. **Odd** [GO08, Jen03, Nie07, Che05b, CGO07, Har05a, Har07, Ian00, IS03, KK02a, Kim09, Mel06, Wat04b, WS09, ZQ08]. **old** [BCC06]. **One** [Flo03, CC07, CK03, GJ00, Ian00, LK06, Sel01b, Syl06, Zha02a, Zha05c, DM02]. **one-dimensional** [GJ00]. **one-parameter** [Zha02a]. **One-sided** [DM02]. **One-to-one** [Flo03]. **ones** [CD03a, WY00]. **only** [Syl06]. **onto** [Car02, Osw08]. **open** [KP09]. **operations** [KM07]. **operator** [BD01a, CDD01, GHK04, GHK05, GK09a, MP06b, NL05]. **operator-valued** [GHK04, GHK05]. **operators** [BTW03, Beb05, BS05a, CD07, CDD08, DJ06, GS06a, Guz06, HO09, Kry07]. **Optimal** [Bos04, Bra08, CCSS02, CSX07, DD08, HJ06, He05, HHY04, HMGR00, Lau01, SvdES03, Tan06, Che08b, CL01, DH01, GHS07, GW06, HSZ08, Ket09, LS06b]. **optimality** [CHX09, Sug03]. **Optimization** [Tun09, Dai03, FMTW06, Ruu06, TX02, Tse04, WLQ08, Fre04, Par00]. **Optimized** [GK09a, BGH09, KS06]. **option** [AFT05]. **orbit**

[EO03]. **orbit-stabilizer** [EO03]. **orbits** [Moo04, Noë06]. **Order** [PT06, ASW09, BKPS08, BC02b, Beb05, BG06, BM08, Bou06, Bre02, Bre04a, CP02, CD03b, Cao08, CF01, CB02, Car04, CGP06, Che05a, CS08a, CDG08, CGW09, CCIL02, CTZ06, DP09, Des01, DD08, EGCZ04, GMT08, GT07, GG04, How00, HS07c, Joh01, KÖ04, KS05, Kho07, Kot04, Kot08, Ku07, Ku08, Lau01, Laz05, McS06, MX07, Ric08, TS07, VS07, WW07b, ZCT09, MN08]. **orders** [ER07, GM01b, Wei06]. **ordinary** [AET09, ET05, GWTW08, Mär01a, MZ09, Zha06a]. **Orthogonal** [DMGVPR06, Huh03, LdV06, dB00, BLR05, DMGVJP05]. **Orthomorphisms** [LT04]. **orthonormal** [Dam04]. **oscillating** [CH03]. **oscillations** [ER03, LTWZ09]. **oscillatory** [AET09, HV07, IN06]. **Oseen** [CKS04]. **Osher** [FS05]. **other** [MS06]. **overdetermined** [DS00a]. **Overlapping** [GP03, LST09, HX03, LT03]. **overset** [MR03]. **ovoids** [CD01].

P [Ber05, Zup08]. **packings** [NX08]. **Padé** [CTZ06, DMGVJP05, DM02, FG06, MKD07, ZCT09]. **PageRank** [BRZ08]. **pair** [Gar03]. **pairs** [BF04, Cos03, Cut01, Shp01]. **pantograph** [CJ09, LYX06]. **paper** [Cri04]. **Parabolic** [WT07, AC04, AMN06, ADNT04, AD05, BJ07, BBM05, BCS06, BM00b, CF04, CL00a, DG01, GP00, GOPT02, GT07, LM06, MR03, MT00, MT09, MZ07, NSV00, OPS06, SS09, SST00, TW08, dFMS01]. **Parallel** [BB01a, HK09, CPTZ04, GH05, SST00, XZ00]. **parallelization** [GLFE06]. **parallelized** [GLV00, ST02b]. **Parameter** [OPS06, Cha05, CGO05, DY01, ESU02, LEU09, MT00, Zha02a]. **Parameter-uniform** [OPS06]. **parameterized** [Faß01]. **parametric** [GL00, JKKZ07]. **parametrized** [DD09, Lou07]. **Parity** [AE08, CO08]. **Parity-regular** [AE08]. **Part** [Gir05, Lay00, ST07, Wal00c, ACFP02, BC02b, CCS06a, CB02, CDNZ00, GHL09, HSWW01, SW04]. **Partial** [aY07, AFT05, CDNZ00, CS08a, DG01, Gao03, JSX06, Ku07, Mad09, MT09, Shu02, Ves02, Yoo00]. **particle** [Bos04, FM08, FM02, Lin03]. **particular** [Cut01]. **partition** [CDJ+07, CO08]. **partitioned** [HLS06]. **partitions** [FL08, HNSZ08, PBKS08, Ste08]. **parts** [Emm02, NS01]. **Pasciak** [Car02]. **passing** [VS02]. **patch** [Zha00]. **patchwise** [HS06a]. **pattern** [Cal09]. **PDE** [SS08, WY00]. **PDEs** [Fed07, DM08, HLS06, LST09]. **peak** [SGG07]. **penalty** [BE07, He05, Lin09]. **pencils** [Li03b]. **Penrose** [CDW07]. **pentanomials** [KLKM02]. **perfect** [BLP07, GO08, Har05a, Har07, Ian00, IS03, Jen03, Nie07]. **perfectly** [BJM00, CC08, KP09]. **perform** [BO00]. **performance** [MNS03, Sim00]. **Period** [FPS01, FPS02, Emm02, GP02c, iHH05, NS01]. **periodic** [BM00b, JC05, Kar09, SY00]. **Periodicity** [CO08]. **periodizing** [Sid06]. **periods** [BB06, Gur06, Tha00, Tha01]. **permutation** [Hul00]. **perspectives** [Tse08]. **Perturbation** [Nie04b, TV06]. **perturbations** [Li03b]. **perturbed** [AK08, AGG09, BES03, BCL08, Cat05, FOS05, FOS09, Kop07b, Ley08, OPS06, WL03]. **phase** [BGN06, FP04, FHL07, FK07, SGG07]. **physical** [ACPT07]. **Picard** [Bar04, BvL07, BTW05, KW05]. **Piecewise** [Dem04b, Han03, Bre04b, Flo03, MR09, SW04, Tan06]. **Pisot** [AFH07, BH02b]. **place** [Sel01b]. **planar** [JKKZ07]. **Planck** [FGT02, yGjW09]. **plane** [CF02, Gir06, Kou09]. **planes** [LT04]. **plate** [FT00a, HS07c, HS09b, Hua04, Lib01, McS06]. **Plateau** [Poz04]. **plates** [CH08, MR09]. **PML** [BP07c, BP08]. **Point** [BTW05, BPV00a, BPZ07, CM06, DM02, Eng09a, Fre04, HZ04, KK02b, LX01, QS00, Zho03, Zul02]. **Points** [Cam04, BTW01, Bra08, Deu02, Dra06, Gir06, HN07, Shi04, Sik01, WW05, YH05, Zha02b, Zho05a, vdGvdV00]. **Pointwise** [AK08, Che05a, Guz06, Dem04a, Dem07b, Dem07c, Guz08, HSWW01, SW04]. **Poisson** [BM08, Lub08]. **Polak** [WLQ08]. **polar** [Zan04]. **poles** [DVB08]. **Pollard** [GLV00, ST02b, Tes01]. **Polyak** [WLQ08]. **polyanalytic** [Huh03]. **polycyclic** [EO03]. **polycyclicity** [AE07]. **polygon** [FL08]. **polygons** [Lau01]. **Polyharmonic** [KR05c, BD01b]. **polylogarithmic** [Fre05]. **polylogarithms** [BdJ08]. **Polynomial** [CDD08, LMPV05, vzGG02, Bar06, Brö08, Con05, Dég01, DKPS05, Dic07, DJ09b, Eng09a, GL02,

Göb02, Gur06, Han03, JKKZ07, JV05, Kau01, Kit09, Kle06, Lec06, PBKS08, Wal00c, WH05]. **polynomial-time** [Wal00c]. **polynomials** [Abb02, Ahl08, ADGR04, BG06, BM00a, BM03, BLP08, Boy02, BLR05, CX09a, Dam04, DMGVJP05, DMGVPR06, Doc05, DQR04, DJ09b, Eng09b, FJ02, FS04, FRSÉ06, Gao03, GP01, iHH05, iHHR08, HMZ03, Huh03, Ito03, JW03, Jin06, Jun06, LdV06, Luo09, Mel06, MR07b, Not06, RW05, SW09b, Smi00, Ste01, Tha00, Tha01, dlCYLR09, Zen05, vdH04a, vdH04b, Ber04a]. **polytopes** [YZ08]. **Poonen** [vW00]. **porous** [Riv07]. **posed** [DD08, Kal03, Mad09, MN09, MP06a, Qn00]. **posedness** [Ell06]. **Positive** [Peh08, ABP06, BGL07, Che05b, Fla09, GS04a, Mel06, MNW01, MNW02, MM09, Sun05]. **Positivity** [NW02]. **possible** [Ell06]. **post** [CLSS03]. **post-processing** [CLSS03]. **Postage** [Mos00]. **posteriori** [AR08, AMN06, ACFP02, BC02b, BBM05, CF01, CB02, Car04, CLY06, CH08, CJ06, Dem07b, DA05, FV03, HSWW01, IHvdV08, Kim07, KO00, LM06, Lib01, LS06a, MNS03, NSV00, Rep00, San08, SW04, Sch08, WW09, XZ04]. **potential** [BR02, GS01, Hou02]. **Powell** [LS03a, SS06]. **Power** [Car08, KR01, DVZ00, FS01, FPS01, FPS02, Kel07, LEU09, MMRV09, PWZ08, WW07a, WH05]. **powers** [BLP07, Che05b, EK05, Gur06, Gur08, ZQ08, vzGN04]. **Practical** [DP06, Lev05, Wan07, Eld02, AMR04]. **Pratt** [Bay08]. **precipitation** [FPF06]. **precise** [FPF06]. **precision** [Lec06, TY00, dRvdL09]. **preconditioned** [BGL07, Ney02]. **preconditioner** [CT03, HW00, LT03]. **preconditioners** [Bai06, Ber04b, BS00, DD08, GP03, HZ04, Krä05, LST09]. **preconditioning** [BPV00b, MO09]. **Predicting** [BGPGS05]. **predictor** [Sya05]. **prehomogeneous** [KMKK03]. **preprojective** [BF03, DK02]. **prescribed** [BM03, FV03]. **presence** [Dab05]. **preservation** [FP00, Str03]. **preserving** [BP07a, Fan01, GS02, Ket09, NW02, Ruu06]. **pressure** [AVT04, BR02, GS04b]. **pressure-correction** [GS04b]. **pressure/potential** [BR02]. **pricing** [AFT05]. **primality** [Bay08, Ber07, BB04a, CG02, Mor07, SW00]. **Primary** [GWW09]. **Prime** [AB04, BB08, Bri07, EK05, BKS09, Che05b, CGO07, Cut01, DG02, Dub02, For02, FK01, GTTD07, GO08, Gur06, Gur08, Har05a, Har07, Har05b, Hol02, Ian00, IS03, JW03, Jen03, JL03, Kel07, Mor04b, Nie07, PS02b, PS02a, Pas09, Sch03, Sem02, Sim02a, Suz04, Suz06, Syl06, Zha02a, ZQ08]. **Primes** [Ber05, BH00b, DR01, DDR04, DFL$^+$02, HS03, Kad08, KR05b, MR07a, Voi07, vdPtRW01, vdPtRW03]. **Primitive** [Mey08, BLZ03, BLZ05, BZ09, KLKM00, KLKM02, PS02b, PS02a, Pas09]. **principal** [Bos03]. **principle** [BE05, DDS05, KKN01, VS07]. **principles** [TW08, Zho03]. **priori** [CCSS02, GS06b, Kry07, Li09, PF07, SvdES03]. **probabilistic** [Nie06]. **Probability** [Nie06, BP07b, BCL08]. **probable** [Dub02, Zha02a]. **problem** [AMR09, AVT04, AGV04, BR03, BB03a, BGH09, BRS05, BBG00, BPP03, Boy02, BZ01, BKP05, BP08, BCS06, BCL08, CM01, CCS06a, CK03, Che05a, CGO05, DDS05, EO03, GHL09, GMT08, Guz08, Hal01, iHHR08, HSWW01, HR08, HGNS03, HS09b, Hua04, Kad08, Kop07b, Lau01, Ley08, MKD07, Mos00, Pac07, QJH04, SW05, Sim05b, Sti02, Szy09b, Vac05, BLP03, KM04b, Mos00, Poz04]. **Problems** [Ste00, AC08, AMCJ04, ABH07, ASW09, AGG09, AD05, BC02a, BBX03, BR02, BBG00, BM05, BPV00a, BP07c, Bre02, Bre04a, BM00b, CP02, CF01, CCSS02, CC07, Cha05, CH03, CF04, CJ06, CC08, Che08b, CL00a, CKK03, CG05, CDG08, CGW09, Coh02, CHLS02, CDW07, Dem07b, Dem07c, DD08, EGCZ04, Eld02, Fao09, GS01, GM01a, GRW05, GP00, GOPT02, GT07, GHL06, GSS07, GNP08, GL05, Guz06, HR03, Hip03, HS01, HZ04, HSTX04, Kal03, Ker03, KW03b, Kul06, LM06, LT03, LS09, Lin09, MN09, MP06a, MZ07, MR09, MNS03, NSV00, OPS06, Qn00, QS00, Rep00, Ric02, Rom08, San08, SS09, ST00, SST00, Sol07, SW09c, Sya05, TX02, Van06, WLQ08, WW09, WW07b, Wih06, XZ01, Yan00, Zha03, Zha05c, Zha04, Zho03, Zul02, dFMS01, Bur03, Shp05]. **problems** [Tse08, Wah03]. **problems-the**

[BM00b]. **procedure** [CD05]. **process** [Sid02]. **processes** [BCS06, GWTW08, PKRK06]. **processing** [CLSS03]. **product** [BB03b, BTW01, LZ09, Sau04, SS08]. **products** [CGP06, Dab05]. **profiles** [Fan01, FR02, Ye04]. **progression** [DFL+02]. **progressions** [Kad08, LZ09]. **Projection** [EL02, AC08, BC07a, BPS02, GMT08, GS04b, Car02]. **projections** [CW08]. **projective** [DJ06, LT04]. **projector** [Osw08]. **projectors** [SS04]. **prolate** [Dab05]. **propagation** [GUW00, HS09a]. **properties** [BGL07, CS08b, Chr04, Emm02, HS06a, HR06, LW07, Lee02, Li00, MS06, QV05]. **property** [NW04]. **Proportionally** [BR09]. **Prouhet** [BLP03]. **provably** [Eng02]. **prove** [CT03]. **Proving** [Ber07, GP02c, Mor07]. **pseudo** [CTZ06, ZCT09]. **pseudo-multivariate** [CTZ06, ZCT09]. **pseudoconvergence** [DS07]. **pseudoperfect** [BJM00]. **pseudoprimes** [Bro04, Bro05a, Gra01, Zha01, ZT03, Zha05b, Zha06b, Zha07]. **pseudorandom** [BGPGS05, CS04, Emm02, NS01]. **pseudospectra** [BLP08]. **pseudospectral** [yGlX04, Lui03]. **Pseudozeros** [HMZ03]. **psi** [Kou08, QV05]. **PSW** [Zha02a]. **public** [Shp04]. **public-key** [Shp04]. **Puiseux** [Wal00c]. **purely** [HR08, SS00a]. **Pythagorean** [Jüt01, SJ07b].

QR [BEGG08]. **Quadratic** [BB03a, Boo06, Sel01a, Voi07, AB04, AGV04, Bel04, Bro00b, Cha09, CX09b, Chu05, CR00, Fri00, GL05, HP05, Han03, Hol02, Hol04, HX08, JW03, Lou02, Sim05a, ST02b, Wat04a, Wei06, YC03, Zha02a, dHJW07]. **quadratic-base** [Zha02a]. **Quadrature** [IN06, BDMGVO00, CGGR00, CLP06, DGVN02, DVB08, HHY04, Hou02, HN00, KKR03, KP08, KR07, MNW01, MNW02, MS03, Not06, Peh08, SL01a, SST00, Sid09a, Sid09b, VBV06]. **quadratures** [BCBDGV09, DMGVJP05, DMGVPR06, MSP08]. **quadrilateral** [ABF02, CKK03, DL04a, HS09b, McS06]. **quality** [PB03]. **quantities** [Lee02]. **quantum** [Lub05, Mor04a]. **quartic** [Ber07, CJ05b, CDO03, Gir06, Har09, Tog00]. **Quasi** [Bro07, MW04, Bar06, CLY06, Cat05, DFG+04, DM08, Ell07, Eng09b, GT07, HW02, HSWW01, Kry07, LW04, Lin03, Pap01, SKJ02, Wan03]. **quasi-continuum** [Lin03]. **Quasi-diagonality** [Bro07]. **quasi-linear** [DM08, Eng09b, GT07, Kry07]. **Quasi-Monte** [MW04, HW02, Pap01]. **quasi-Newton** [Cat05]. **quasi-norm** [CLY06]. **quasi-polynomial** [Bar06]. **quasi-uniform** [Ell07, HSWW01]. **quasicrystals** [GP02c, Har09]. **quasilinear** [Dem07c, FOS09, GP00, GNP08, WW07b]. **Quasimonotone** [CDNZ00]. **Quaternionic** [Dem07a, GG09]. **question** [vW00]. **Quincunx** [HJ02]. **quintic** [Bat01, GL00, Sel01a, Sel01b]. **quintuple** [BB03b]. **quintuple-product** [BB03b]. **quiver** [DK02]. **quivers** [BF03].

R49081 [Dub02]. **Radau** [GWTW08]. **Radial** [Lev04, Buh01, LEU09, NWW05, SW02, SW09b]. **radius** [BP07b]. **Ramanujan** [Hei09]. **ramified** [Syl06, VK09]. **Random** [Vis00, Ber07, CL00b, FMW02, FM08, MP06a, Tes01]. **randomized** [Nie06, WW07a]. **randomly** [BES03]. **range** [Mos00]. **rank** [ASwaAbJC05, ACP04, BJLS08, Bel04, CC06, DPW08, EG04, NC06, Pil04, SS00a]. **rank-** [NC06]. **rank-1** [DPW08]. **rank-deficient** [EG04]. **Rapid** [Per03]. **Rate** [Zha06a, Bos04, GW06, Olv09, TT02]. **rates** [CDD01, Fus08, Liu00]. **ratio** [CX09a, Ley03]. **ratio-of-uniforms** [Ley03]. **Rational** [BRZ08, BCBDGV09, DVB08, MM07, Shi04, dB00, AE07, BJA04, Bar06, BM02, CM06, Cam04, CR03b, DVZ00, Kov07, Ros05, Sik01, TT00, VBV06, qWyG08, Wu03]. **Rationality** [HR08]. **rationals** [Cou06]. **ray** [Cha09]. **Rayleigh** [JS01, SvdES03]. **RBF** [Fus08, FNWW09]. **re** [ST00]. **re-entrant** [ST00]. **reaction** [AK08, BE05, CGO05, Des01, Fao09, KLS08, Kop07b, Ley08, OPS06, San08]. **reaction-diffusion** [AK08, CGO05, Des01, Fao09, KLS08, Kop07b, Ley08]. **Real** [BLR05, Chu05, Wat04b, Cer07, Cha09, CX09b, CR00, DVM02, DK03, Fri00, Hak09, Li03b, Li06, Lou07, Mel01, Sch03, Sel01a, Sel01b, ST02b, ST07, dHJW07]. **realistic** [BRS05]. **realization** [NL05]. **reciprocity** [BB04a]. **recognition** [Cal09].

Reconstruction [KLS09, CGP06, LM06]. **Recovering** [Dab05]. **recovery** [CLY06, XZ04, Zha00]. **rectangular** [HS07c]. **Recurrence** [Zan04, Dam04, Fre05, TS07]. **recursions** [DS07, DST08, GST07]. **reduced** [Sim05a]. **reducibility** [BLZ03]. **Reducing** [DK04]. **reduction** [CP02, CH06, Gra02, HK09, MN08]. **reductions** [Car06, ZQ08]. **Refinable** [CJ05b, HJ02, HYP04, LdV06]. **refined** [Jia05, Ste08]. **refinement** [BC07b, DS09, MO09, WL03]. **reflecting** [ABM04]. **region** [Boe01, EH09, xY01]. **regions** [HSW04b]. **regular** [AE08, MKCI01]. **Regularity** [BBX03, Bre02, CP08, Sol07, AFT05]. **Regularization** [MP06a, KW03a, LP06, LLL08]. **regularized** [AC08, Cha05, DD08, Qn00]. **regulator** [MRW09, dHJW07]. **Reissner** [CH08, DL04a, FT00a, HS07c, HS09b, Lib01, McS06]. **Reiten** [DK02]. **related** [Bro00a, Car06, CO08, ES02b, Gav06, Lee02]. **relation** [BB01a, Kit09, TS07]. **relations** [Fre05, Gra02, iHH05, Seg01, Zan04]. **relationship** [Kal05a, Kal05b]. **Relative** [KMKK03, GP02a, LK06, Lou00, Sim02b, Ye08]. **relaxation** [BKPS08, BGH09, GT01, HS09a, JC05, KKR04, KM01, Liu00, Ye04]. **release** [HGNS03]. **Reliable** [DA05, BC02b, CB02, Car04, CF04, Els01]. **remainder** [BS07a]. **remarks** [Noë06]. **Report** [Shp05]. **represent** [Voi07]. **representation** [CJ05b, FS05, PBKS08, SST00]. **representations** [BPTJ07, BF03, CC04, DA07, Kom05, Luo09, Pac07]. **reproducing** [NC06, Zup08]. **Repunit** [Dub02]. **residual** [BS08, LMR06, PKRK06]. **residue** [CHGN08, DDR04, HPP03]. **resolution** [GP02a, Kir03, Wal01]. **resolutions** [Gru00]. **resolvent** [EZ06]. **resolvents** [BTW03]. **resonance** [AET09]. **resonances** [KP09]. **respect** [ER07]. **Restarted** [Ste00]. **restricted** [Boy02, Mor04b]. **resultant** [GP08a, JV05]. **resultants** [BM09]. **results** [AFT05, EG04, GS04c, HM06, SS00b, Sid02]. **review** [Ain01, Arn01, Asl04, Ber04a, Bul04, Bur03, Cal09, Coh00, Coh02, Eld02, Els01, Enr05, Fed07, Fre04, Gau00, Gav06, Gav07, Gir05, GG04, Hai01, HW06, Hop05, Lay00, Laz01, Laz05, Lee06, Lev04, Lev05, Mär01a, Mär01b, Mee05, Mic06, MP01, Nie01, Nie02, Nie04a, Nie06, Osh01, Par00, Rei05, Riv07, She07, Shp04, Shp05, Shp07, Shu00, Shu01, Shu02, Sim00, Ste00, Str03, Suc01, Sul05, Szy09a, Szy09b, Tal03, Tem02, Tem03, Tse04, Tse08, Tun09, Van06, Ves02, Wah02, Wah03, Wah04, Wal00a, Wal01, Wan07, aY07, xY01, dB00, vdP05]. **revisit** [Li03b]. **revisited** [Dam04]. **rho** [Tes01]. **Rhoades** [Cof09]. **Ribière** [WLQ08]. **Richardson** [ASW09, Noë06, Sid02]. **Riemann** [BB07, BB04b, BB06, DHB+04]. **right** [KL02]. **right-hand-side** [KL02]. **rigid** [Arn01]. **rigorous** [dHJW07]. **ring** [HJ06]. **rings** [HPP03, Mey08]. **Ritz** [JS01, Jia05, KW03a, SvdES03]. **Robust** [AR08, GSS07, San08, CGO05, NTW01]. **root** [Lou07, PS02b, PS02a, Pas09]. **roots** [Kin03, Kit09, TV06, Zen05]. **rotational** [GS04b]. **rough** [KW03a, Mad09]. **RSA** [Shp04, Wal00a, Shp01]. **Rudin** [BM00a, Doc05]. **Ruelle** [DJ06]. **rule** [CJ09]. **rules** [CGGR00, CL01, DK04, DKPS05, Dic07, FL07, HV07, KR07, LS04, LS06b, NC06, Pil04, SL01a, Sid09a, SJ07a, SR02, SKJ02]. **Runge** [AMCJ04, CP02, FS05, GP00, Han06, HLS06, Jay06, Li00, LYX06, MZ09, Ruu06].

Sabin [LS03a, SS06]. **Sabin-12** [SS06]. **saddle** [BPV00a, HZ04, Zho03, Zho05a, Zul02]. **saddle-point** [HZ04]. **SAGBI** [Göb02]. **Salem** [BH02b, Smy00]. **same** [Voi07]. **sampling** [Cha05, FMW02, Lin09, Sun09]. **satisfactory** [GST07]. **Satoh** [Skj03]. **Saturation** [BD01a, GM05, SW02]. **Saxton** [HKR07]. **scalar** [Bos04, BPV03, KNP03, Liu03]. **Scale** [Ste00, LMR06, Sya05]. **scales** [BPV00b, Kir03]. **scattered** [NWW05]. **scattering** [BP07c, CC08]. **scheme** [BKP08, BF08, BCS06, CDNZ00, EF08, Ell06, FPF06, GHL09, HS07a, He08, KKR04, LW04, Obe05, VS02, XZ01]. **schemes** [ABM04, ADNT04, BKPS08, BJ07, BM08, BPV03, CGP06, CKMP03, DG01, Des04, DM02, DL07, ES02b, Fan01, GLFE06, GT01, Gos02, Grü03, GGGS08, GK09b, HYX05, HJ06, HKR07, KMR09, KM01, KNP03, KO00, Liu00, Liu03, MR03, OPS06, PT06, Ten08, Zho05b]. **Schnabl** [BD01a].

Schönhage [Möl08]. **Schreier** [Cou00]. **Schrödinger** [AMR04, ABM04, Lub08]. **Schrödinger-type** [AMR04]. **Schubert** [LS09]. **Schur** [DK06, SQO04]. **Schwarz** [BW00, BGH09, GP03, HS09a, LST09, SW09c]. **science** [Osh01]. **scrambled** [YH05]. **SEA** [JL01]. **search** [CHS09, DJ09a, GLV00, KR05b, LB01, MR07a, WLQ08]. **searches** [ESU02]. **Searching** [DG04, Koy00, Sut09]. **second** [ASW09, Beb05, Bou06, Bre02, Bre04a, CD03b, Che05a, CDG08, CGW09, GT07, KS05, Ku07, PT06, WW07b]. **second-order** [Beb05, Bre02, CD03b, CDG08, CGW09, GT07, WW07b]. **section** [Bro07]. **sector** [RW05]. **Security** [VS02]. **sedimentation** [BCS06]. **sedimentation-consolidation** [BCS06]. **segmentation** [LLT06]. **selection** [Kle06]. **self** [HMV09]. **self-dual** [HMV09]. **Semi** [Yoo00, BM08, BCS06, DL07, MZ09, NP05]. **semi-discrete** [NP05]. **Semi-discretization** [Yoo00]. **semi-implicit** [BCS06]. **semi-Lagrangian** [BM08, DL07]. **semi-linear** [MZ09]. **semidefinite** [BGL07]. **semigroups** [BO02, Kov07, Mor04a]. **semilinear** [CDNZ00, FOS05, HS09a, Kop07b, MT00, Sze06]. **sense** [Kar09]. **sensing** [COS09b]. **sensitive** [FG04]. **Septic** [JR03]. **sequences** [Ale03, CJ01, EK05, Sid00, Sid02, Vis00, ZQ08, vdP05]. **Sequential** [CPTZ04, LLL08]. **series** [Ave08, Car08, DVZ00, GUW00, KR01, LEU09, LMPV05, Nei05, Olv09, OS09, Tsu04, dRvdL09]. **service** [BdJ08]. **set** [Asl04, Bou06, DL07, Gol08, LLT06, Ned09, Osh01, TGO03]. **sets** [BM03, GG01]. **setting** [WW07a]. **seven** [Jüt01, Kad08]. **several** [KR02, Zha01, ZT03]. **Sha** [Bru04, LvL09]. **shallow** [CGP06, HP02, HP03]. **shallow-water** [CGP06]. **Shamir** [VS02]. **Shanks** [Ter00]. **Shape** [Tii01, Ste02]. **shaped** [AK08]. **Shapiro** [BM00a, Doc05]. **Shapiro-like** [BM00a]. **Sharp** [CJ06, Lec06, Sol07, FP04, GS04c, LWXZ08]. **Sharpening** [Ber05]. **Sharply** [Dem07c]. **sharpness** [Jin06, STW03]. **sheet** [LX01]. **shells** [HP02, HP03]. **Shepard** [CD07]. **shift** [NC06, WG03]. **shift-invariant** [NC06]. **shifted** [WG02, Yoo03]. **Shimura** [Voi09]. **Shishkin** [Zha03]. **shock** [Bri01, Fan01, Ye04]. **shocks** [Liu03]. **shooting** [KW03b]. **Short** [Kad08, Ley03]. **Shu** [FS05]. **side** [KL02]. **sided** [DM02]. **Siegel** [FK00, Ito03]. **sieve** [JL03, Kle06]. **sieves** [AB04]. **Sieving** [Sik01]. **Sign** [BFM08, CP08]. **signals** [Dab05]. **significant** [VS02]. **Signorini** [BR03, BB03a]. **Simple** [LE01, BB06, DA07, DS01, KMKK03]. **simplest** [KK02a, Kim09]. **simplex** [Bar06]. **simplicial** [Ste08]. **simplified** [MN09]. **Simulating** [HW06]. **Simulation** [Shu00, ABM04, Mor04a]. **simulations** [MKD07]. **Sinc** [EGCZ04, Sug03, TSM05, TSM09]. **singular** [ABH07, CC06, DK03, Du09, KW03b, LWXZ08, MM01, Rom08, Wal00c, Ye08]. **singularities** [AK08, Gru00, JH01, PWZ08, Sid09a, Sid09b]. **singularly** [AK08, AGG09, FOS05, FOS09, Kop07b, Ley08, OPS06, WL03]. **sixth** [EGCZ04]. **sixth-order** [EGCZ04]. **size** [HMGR00]. **skew** [BGL07, LS04]. **skew-circulant** [LS04]. **skew-Hermitian** [BGL07]. **slightly** [BCL08]. **slope** [DG04]. **slopes** [HS07b]. **Smale** [Kal05a, Kal05b]. **Small** [BDF08, AGH07, CHS09, Dic07, FRSÉ06, FPS01, FPS02, GTTD07, HM06, KR01, LEU09, MT00, SW05, Syl06]. **smallest** [AXY02, BH00a, RM03, RW07, dlM02]. **Smart** [vW00]. **Smith** [DNR09]. **Smoluchowski** [LW04]. **Smooth** [ES02a, SS06, DV07, GP01, He08, HSWW01, Tan06, Tii01]. **Smoothed** [CW08]. **smoothing** [Ker03]. **smoothness** [Kop07a, Kry07]. **Sobolev** [Gav07, BPV00b, DL05, FL06, Fus08, NWW05, SKJ02, Yoo03]. **Sobolev-type** [Fus08]. **solid** [Ain01, BGN06]. **solids** [Lay00]. **Solution** [Kou09, Ste00, BC02a, Con05, CR03b, DG01, DP06, Eld02, Hai01, Hua04, JV05, Kau01, Suc01, Shu02]. **Solutions** [KR05a, Ber01, Bos04, CdSF09, DS07, DST08, Ell06, EGGR02, FNP00, Fed07, GST07, HK09, Hol03, JC05, Koy00, Kry07, Ku08, LTWZ09, Mai07, MRS02, Mei02, ÖT06, RM03, Smy09, ST03, Tog00, TGO03, WY00, Zha02b]. **solvability** [DS09]. **solve** [IHU05, PF07]. **solver** [Ste03b]. **solvers** [Lee06, Szy09a]. **Solving** [Bul04, GP08a, Han00, MT09, Sim02b, Sim05a, CGP06, EGCZ04, JPW03, LMR06, MK02, Qn00, Sya05, WH05]. **Some** [BH02b, Bro00a, Bro04, Bro05a, HM06, KK02b, Noë06, QV05, Smi00, Sti02, BJA04, BBM05, BLZ03, BM09, CK03, FJ02, GRT04,

GRT15, GNP08, Kal03, KMKK03, Kou08, KLKM02, MM01, MP06a, McS06, TX02, Zha06b]. **Sort'** [JL01]. **Soulie** [AR08]. **source** [Gos02, KMR09, KS05]. **sources** [BPV03]. **Space** [SS09, BM00b, CC07, FM08, Grü03, LMMW00, MR03, SJ07b, TT02, Yoo03]. **Space-time** [SS09, FM08, MR03]. **spaces** [BBX03, Car02, CDD08, DL05, EZ06, GM05, GM07, Geo08, GK09a, HHY04, KMKK03, Kov07, NW04, Noë06, NC06, Osw08, SKJ02, Sun09, Gav07]. **Sparse** [Abb02, GHK04, GHK05, GK09a, Kho07]. **spatial** [BC02a, EGGR02, EL02]. **spatially** [AMG07]. **Special** [Sem02, CD03a, FK00, Ito03, vzGN04]. **Specialized** [Jay06]. **specified** [GRT04, GRT15]. **spectra** [BH02b, BES03, Bou06, Li03b, She07]. **Spectral** [AMCJ04, CX09b, LMR06, Shu01, SQO04, BR02, DM02, FGT02, yGjW09, Hal01, HR03, HK08, Lee02, MKD07, PF07, SW09a, Tan06, qWyG08, Zha05c, dFMS01]. **spectral-finite** [FGT02]. **Spectral-fractional** [AMCJ04]. **spectrum** [Doc01]. **sphere** [Bra08, FNWW09, HP05, HX01, KP08, LST09, Ros05]. **spheres** [BP07a, BLP09, DJ05, Nie04b, SW09b]. **Spherical** [MNW01, MNW02, SS04, DJ05, SW09b, ST02c]. **spheroidals** [Dab05]. **spinor** [KK02b]. **spline** [AL05, GGL09, JL08, Joh01, Kau01, Osw08, Ros05, Yoo03]. **splines** [CJ05b, GM01b, HNSZ08, Kop07a, KR05c, LS03a, MR07b, Sun09, Wah04]. **splits** [SS06]. **splitting** [BGL07, Des01, Fao09, HO09, Lub08]. **spurious** [BBG00]. **Square** [GW08, MtR04]. **squared** [Car06]. **squares** [Abb02, BKP05, CDW07, DL04b, EG04, Ku07, Ku08, MV04, Nie04b, Yan00]. **SSM** [HP05]. **Stability** [GP00, Li00, Sun06, BO02, BPS02, Bri01, FNWW09, GGGS08, LYX06, MRS02, MZ09, MR03, Ric02, RS03, Ruu06, Sid03, STW03, Str03, Ye04, Car02]. **stabilization** [BM01, GMT08, OR04]. **Stabilized** [ACPT07, BE05, CM01, HS07a, Zho03]. **stabilizer** [EO03]. **stabilizing** [HZ01]. **stable** [CP08, GI04, LS03a, Moo04, Peñ04, RS01, Ste03b, Zha05a]. **staggered** [EL02]. **Stamp** [Mos00]. **standard** [WW07a]. **standardized** [Sik05]. **star** [Dic07, SJ07a]. **Stark** [GRT15, Ble03, DTvW04, GRT04]. **stars** [MNS03]. **starting** [ABFH00, IHU05]. **state** [ACFP02, DH01]. **statement** [ST06]. **states** [CGP06]. **stationary** [CF01]. **Statistical** [CS08b, Emm02, Kit09]. **steady** [ACFP02]. **Steinbach** [Car02]. **Steiner** [KÖ04]. **Steinhaus** [AE08]. **stencils** [HJ06]. **step** [AMCJ04, AD05, HMGR00, Mel06, SKJ02, Ste02, Sti02, Ter00]. **step-by-step** [SKJ02]. **step-doubling** [AD05]. **step-size** [HMGR00]. **stepsize** [BO02, CD03a, CD03b]. **Stern** [BR09]. **Stewart** [Luc01]. **Stieltjes** [DMGVJP05, DMGVPR06, Jun06, Kre03, dlCYLR09]. **Stieltjes-type** [dlCYLR09]. **stiff** [BPV03, ET05]. **stochastic** [AFT05, Bos04, DG01, DP09, DM08, FMTW06, Fao09, FL09, FM02, HMGR00, MT00, MT09, Mor04a, WW01, Yoo00, Lin09]. **Stokes** [AVT04, ACPT07, AL05, BKPS08, BC07a, CW09, CM01, CCS06a, CKS05, DNR09, DA05, DM09b, GHL09, GMT08, GRW05, Guz08, Hal01, He05, HS07a, He08, LLL08, NP05, OR04, Zha05a]. **stopping** [AL03]. **stress** [Li03a]. **stress-free** [Li03a]. **stressed** [BGN06]. **strict** [CP08]. **Strictly** [Sun05]. **strip** [yGlX04]. **Strong** [DMGVJP05, Wan03, YH05, DMGVPR06, HSW04a, Ruu06, SKJ02, Zha01, ZT03, Zha05b, Zha07]. **strong-stability-preserving** [Ruu06]. **strongly** [BCS06]. **Structure** [ER07, BS05b, CR03a, Cul09, Els01]. **Structured** [Bai06, Kho07, BEGG08, HX08, XZ04]. **structures** [Bai06]. **studies** [CHLS02]. **study** [Sid03, Yin03]. **Sturm** [Cha05]. **Subdivision** [Zho05b, HYX05, HJ06]. **subexponential** [Eng02]. **subgrids** [Sau04]. **subgroup** [KM04b, MMRV05]. **subgroups** [CD05, iHHR08, KR02, SW05]. **submatrices** [KLS09]. **subquadratic** [Möl08]. **subset** [BM03, CS04]. **subspace** [LWXZ08, Ney02, Szy09b, TX02]. **Substructuring** [Ber04b, HZ04, TWW01]. **successful** [TSM09]. **successive** [HSTX04]. **suitable** [Wen03]. **sum** [BPTJ07, Che05b, CS04, Per03]. **summation** [DVZ00]. **Sums** [Dre03, BKS09, Boo06, BM03, BFM08, DR01, EJ09, Fre05, Gur08, Kom05, MV04, Nie01, Sha01, Tha01, Wei06]. **sup** [SW09b]. **superconducting** [DJ05]. **supercongruences** [OS09]. **Superconvergence** [CC07, Che08b, HX08, LL08, Zha05c, LY00, Zha03].

Superconvergent [CGW09, CDG08, Kul06, Zha02b]. **superelliptic** [BEFG05, GPS02]. **Superharmonic** [Coh09]. **superlinear** [CT03]. **supersingular** [Shi04]. **supplement** [BR98]. **support** [Buh01, LW07]. **supported** [Ros05]. **surface** [BGN06, CJ05b, FNWW09, Joh01, NWW05, Yoo03]. **surface-divergence** [FNWW09]. **surfaces** [AGV04, Bar04, BvL07, Bru04, LvL09, MST03, PT01, Shi04, ST06, Asl04]. **Swan** [KR02]. **sweeping** [Zha05d]. **Swinnerton** [ASwaAbJC05, FLS$^+$01, GJP$^+$09]. **Swinnerton-Dyer** [ASwaAbJC05, FLS$^+$01, GJP$^+$09]. **Sylow** [MMRV05]. **Symbolic** [CF02]. **symbols** [Dem07a]. **symmetric** [AAW08, CD03a, CD03b, CX09b, DM09b, HX01, HN07, HN00, Mel01, Mel06, Mey08, Noë06, QJH04]. **symmetries** [OvdP02]. **symmetry** [AFW07]. **symplectic** [Faß01]. **symplecticity** [HLS06]. **synchronous** [CPTZ04]. **system** [BM08, DIM08, EF08, FPF06, Gib09, HW00, KLS08]. **systems** [ACC$^+$08, ADNT04, Arn01, BKPS08, BC07a, BP04, CD03b, CGP06, CDNZ00, CCIL02, CGP08, DS00a, Dég01, Des01, DK03, DJ06, JSX06, KÖ04, KP09, LMR06, LWXZ08, LMMW00, Mär01b, MRS02, Str08, TV06, TY00, Suc01]. **Szego** [BCBDGV09, DGVN02, KR07].

Table [BR05, BR11, Car06]. **Tables** [vdGvdV00, CDO03]. **Tamagawa** [Ble03, PT01]. **Tame** [Bro05b, Bro00b, Gro04, YC03]. **targeted** [DJ09a]. **Tarry** [BLP03]. **Tasoev** [Kom05]. **Taylor** [GUW00, Nei05, Zup08]. **technique** [BC02b, BP04, CD03b, CB02, CC08, HZ01, Zha00, dHJW07]. **techniques** [Car04, Har07, Hua04, BB01a]. **Templates** [Eld02]. **Ten** [BZ09, DFL$^+$02]. **Tensor** [BTW01, Sau04]. **tensors** [AAW08, GUW00, Kho07]. **Tenth** [Sel01b]. **term** [BO02, HN00, MM09, Not06]. **terms** [Gos02, KMR09]. **ternary** [HJ06, HMV09]. **tessellations** [DJ05]. **test** [BB04a, CP08, Lee02, Lov07, Peñ04, Zha02a]. **Testing** [AE07, LFHL01, BLZ03, Bri01, FS04, Wal00b]. **tests** [Cap00]. **tetrahedral** [KKN01, MX07]. **tetrahedron** [LX09]. **their** [BLP08, KR05c, MRS02, Nie01, Shu02, Smi00, WS09]. **theorem** [BS07a, Dég01, Des04, Ell07, Lui03, Mat02, Olt07, STW03]. **theorems** [BD01a, FL06, SW02, Sun09]. **Theoretical** [Lin03, Zha02b]. **Theory** [Ain01, Van06, Wal00a, vdP05, Cap00, CDO03, Hou02, Lev04, Lev05, LP06, Ney02, Shp07, Ste01, Zan04, dRvdL09, Mic06, Nie02, Nie04a]. **theta** [DHB$^+$04]. **thin** [MR09]. **third** [Ian00]. **Thomée** [Car02]. **Three** [BCDV00, CL01, DM02, AAW08, Bar04, BvL07, BJLS08, Bea01, BPTJ07, Ber04b, BP07c, BP08, BM01, DY01, EJ09, FMTW06, Hal01, HR08, HZ04, HSZ08, Ste02]. **Three-** [CL01]. **three-dimensional** [Bea01, Hal01, HR08, HSZ08, Ste02]. **three-field** [BM01]. **three-parameter** [DY01]. **Three-point** [DM02]. **three-rank** [BJLS08]. **threefolds** [Cul09]. **Thue** [GL00, GP02a, Han00, Mat02, Tog00]. **tight** [Bre05]. **tile** [GP02c]. **Tiles** [Har09]. **Time** [Shu02, AMR09, AMCJ04, AL03, Ber07, BP07c, BP08, BLyS07, BM00b, CC08, CS08a, CLP06, DM09b, EZ06, Eng02, Eng09b, FPF06, FM08, GLFE06, GP03, Han06, He05, HS07a, He08, Kir03, MR03, PF07, PS03, SS09, SST00, Ste02, Wal00c, Zha04]. **Time-dependent** [Shu02, AMR09, DM09b, He05, HS07a, He08, Zha04]. **time-discretization** [SST00]. **time-harmonic** [BP07c, BP08, BLyS07, CC08, PS03]. **time-step** [Ste02]. **timed** [HGNS03]. **timed-release** [HGNS03]. **Toeplitz** [Szy09a, BES03, Mel01, Mel06]. **Tornheim** [Tsu04]. **torsion** [ACP04, Cul09, KM04b, MMRV09]. **torsion-subgroup** [KM04b]. **total** [AL03, Har05a, Har07, IS03, Nie04b]. **totally** [ABP06, Cer07, Fla09, Sel01a]. **towers** [Cou00]. **Trace** [Fla09, ABP06, Smy00]. **traces** [CC07]. **Tractability** [WW07b, HW02, HSW04a, HSW04b, SKJ02, Wan03, YH05]. **transfinite** [FRSÉ06, Fla09, HS06b, HS08]. **transform** [LDH09, ST02c, DVM02]. **Transformation** [SL01b, Sid03]. **transformations** [BM02, MM07, Nor01, Sid06, Sid09b]. **transition** [FK07, WW05]. **Transitory** [DS07]. **transmission** [GM01a]. **trapezoidal** [CJ09]. **travelling** [Liu00]. **treatment** [BRS05]. **tree** [Bay08, BR09]. **triangle** [PB03]. **triangles** [FP00]. **triangular**

[IK05, JHL08, SY00]. **triangulations** [Flo03, HSYY08, JL08, KKN01, LS03a]. **tridiagonal** [MAK+04]. **trigonometric** [CL01, Han03, dRvdL09]. **trinomial** [BLZ05]. **trinomials** [BLZ03, BZ09, vzG03]. **triple** [CCIL02, KÖ04]. **Trivariate** [AL05]. **true** [WY00]. **truncated** [Nei05]. **trusses** [BS04]. **Trust** [xY01]. **Trust-region** [xY01]. **Turán** [BCC06, MS03, MSP08]. **Turbulence** [Shu00]. **twenty** [CMP03]. **twenty-fourth** [CMP03]. **Two** [BS09, FL07, GP02b, HS07c, Wei06, Zha07, ABM04, BC02a, Bai06, BS00, Bre05, CW09, Che05b, CGO05, DM09b, ER03, FHL07, GG09, GP02c, HJ06, JSX06, KLS08, LMMW00, SGG07, TWW01, Voi09, XZ00, XZ01]. **two-by-two** [Bai06]. **Two-cover** [BS09]. **two-dimensional** [ABM04, CW09, ER03, HJ06]. **two-grid** [JSX06, XZ00, XZ01]. **two-phase** [FHL07, SGG07]. **two-ring** [HJ06]. **type** [AMG07, ABFH00, BKPS08, BPV00a, BDMGVO00, CMT04, Cos03, DGVN02, Ell07, FL06, Fus08, Gar03, Geo08, GT07, Grü03, GNP08, Hua04, KKN01, MK02, MM09, NX08, Tsu04, qWyG08, WLQ08, XZ04, dlCYLR09, AMR04].

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