

# A Complete Bibliography of Publications in *Mathematics of Computation*, 2010–2019

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## Title word cross-reference

(1;  $e$ ) [Sij12]. (2, 1) [SSV14].  $(2^n k + 1)_{n \geq 1}$  [CLPM16].  $(\ell, \ell)$  [CR15]. 1 [ABBM18, BFZ10, CZ11, DKMW13, DHMG11, EHR18, IPZ15, KMPW10, Ort11, Rau16, Sør16, Tao14, XZ10]. 1, 2, 3 [LWCI13]. 1, 2, 4 [LWCI13].  $10^{1500}$  [OR12].  $10^{24}$  [CS10]. 11 [FG17, HKÖ11]. 12 [CLO14]. 16 [Zie10a].  $1^k + 2^k + \dots + (m-1)^k = m^k$  [GMZ11]. 2 [AN15, AK12, BKN15, Cer11, CLTZ12, CFLTL14, Cos10, CR15, Fis17, GM13b, KP12, LZ16, LWZ18, MP17, OS13].  $2k$  [CH13, HZ17].  $2m$  [WX13].  $2 \times 2$  [JLM13]. 3 [ALS17b, BZ18, HFC18].  $3 \times 3 \times 3$  [BH13].  $3z^p$  [DF14]. 4 [BZ18].  $4 \cdot 10^{18}$  [OHP14].  $4 \times 4$  [BvH11]. 72 [NP14]. 8 [KÖ18].  $> \dim R$  [Yen11].  ${}_2H_2$  [Chu11].  ${}_3F_2$  [Chu12].  ${}_5F_4$  [CZ14a].  $b$  [Ser17].  $b_1^2 + b_2^2 + 2n^2$  [PZ11].  $C^0$  [BGNyS11].  $C^1$  [DKS15].  $C^s$  [ADL11].  $D$  [BJM17, FN11].  $D_\ell$  [Coh15].  $E_8$  [GH15].  $E_{p-3}$  [Meš14].  $\ell^1$  [YMO13].  $\ell_1$  [CD18, BCKM18].  $\epsilon$  [JK17, BHH<sup>+</sup>12].  $\exp(1/e)$

[TK12].  $f$  [BZ18].  $F_2$  [HMS11].  $F_q[t]$  [Kir12].  $G^2$  [JKK<sup>+</sup>10].  $\gamma_k(a)$  [KC11a].  $H(\text{curl})$  [Cal16].  $H(\text{div})$  [EFP10].  $H(\text{curl})$  [CW17].  $H(\text{div})$  [CW17].  $H^1$  [HFC18, DT11].  $H^k$  [HZ15].  $hp$  [HW18, LCQ17, SSW16, qWIGjY17, ZqCt16, FW11, MR10, SW10].  $\infty$  [Was14].  $k$  [BM12, CH13, CS13a, RR16].  $K^3$  [Cor10].  $k \geq 6$  [Zha11a].  $Kp^n + 1$  [GOMS15].  $L$  [BF18, Büt15, Lan11, Ram16, Rob15, RTwaabRS16, ST18a, Tru15].  $L(1/3)$  [Bia14].  $L^1$  [KRS14, Xu14a, BFZ10, GLL12].  $L^2$  [CCLX17, Che12, DE13].  $L^\infty(L^2)$  [BM11].  $L^p$  [LS17, MNPW10].  $L_\infty(0, T; L_2(\Omega))$  [LMP15].  $L_m(s)$  [CFJ12].  $\Lambda$  [BÇS15].  $\leq 2$  [AK12].  $M$  [CFS17].  $\mathbb{F}_p^m$  [Zie10b].  $\mathbb{Q}$  [DF14, BF18].  $\mathbb{Q}(\zeta_5)$  [ZX16].  $\mathbb{R}^3$  [GL15].  $\mathbb{R}^d$  [GKS13, GKS17b, HNRW18].  $\mathbb{Z}_{2k}$  [HM14].  $\mathbf{d}$  [CZ11].  $\mathbf{GSp}_4$  [Dem14].  $\mathbf{H}^1$  [BS15b].  $\mathbf{P}^1$  [Tui16].  $\mathbf{C}$  [CM13].  $\mathcal{H}$  [FMP16].  $\mathcal{L}_0$  [ZDL13].  $N$  [DI15, ABE<sup>+</sup>16, CFO<sup>+</sup>15, Har14, ZC13].  $O(\log^2(N))$  [GOM11].  $p$  [BÇS15, BMS16, Cre14, Dum17, Meš14, PV15,

Rob15, Sut11b, ZY15, Zra10b].  $p - 1$   
[Zra10b, Zra10a].  $p = 13$  [Sza11].  $p^2 + b^2 + 2^n$   
[PZ11].  $p^k$  [Zie10b].  $P_1$  [HFC18].  $p_g = 0$  [BP12a].  
 $p_g = q = 1$  [Rit10].  $\pi$  [CZ14a, Chu11].  $\pi(x)$   
[Büt16, FKBJ17, Pla15, SD11].  $\pi(x) - \text{li}(x)$   
[STD15, SD10].  $\psi(x)$  [Büt18, FK15, FK18a].  $\psi, \theta$   
[Dus16].  $q$  [LL15, WO10].  $q > 1$  [WO10].  $Q_k$   
[HZ17].  $QR$  [BEG16, DOZ13, CSV12].  $R$   
[CSV12, HP12].  $R[X]$  [Yen11].  $R^3$  [ZHX11].  $R^n$   
[HZ15, WX13].  $S$  [BB17].  $s > 1$  [ADL11].  $S_\gamma(n)$   
[KC11a].  $SL(3, Z)$  [Mez11].  
 $SL_3(\mathbb{C}) \times SL_3(\mathbb{C}) \times SL_3(\mathbb{C})$  [BH13].  $SL_4(\mathbb{Z})$   
[AGM10].  $\sqrt{2}$  [KT10].  $T$  [DGKS16].  $t_\epsilon$  [ZC18].  $\tau$   
[KZ18].  $\theta$  [dGO14].  $\theta(x) - x$  [PT16].  $u$   
[BHM<sup>+</sup>11, BHM<sup>+</sup>12a].  $V$  [SZ18].  $\varphi$  [FLM14].  $w$   
[KZ18].  $W_\infty^1$  [DLSW12].  $W_p^1$  [Li17].  $x$  [Dus16].  
 $x < 10^{10^{13}}$  [SD11].  $x^2 - 1$  [LN11, LN14].  
 $x^5 + y^5 = 2z^p$  [DF14].  $x^5 + y^5 = dz^p$  [BD10a].  
 $X_1(5)$  [KK10].  $X_1(6)$  [KK10].  $X_1(N)$  [Baa10].  
 $x_1 + x_2 + \dots + x_k + c = x_{k+1}$  [ABE<sup>+</sup>16].  $Z[u]$   
[BHM<sup>+</sup>11, BHM<sup>+</sup>12a].  $\zeta(s)$  [SD11].  $|\Delta| < 2^{40}$   
[MJ16].

**-abelian** [RR16]. **-adaptive** [HW18]. **-adaptivity**  
[MR10]. **-adic** [BÇS15, BMS16, Dum17, KZ18,  
Rob15, Ser17, BÇS15]. **-based** [DOZ13].  
**-Bernstein** [WO10]. **-codes** [HM14]. **-color**  
[ABE<sup>+</sup>16]. **-conforming** [HFC18]. **-conjecture**  
[CH13]. **-cube** [KÖ18]. **-curves**  
[Sij12, BF18, DF14]. **-D** [EHR18, IPZ15, XZ10].  
**-decompositions** [CFS17]. **-descent** [CFO<sup>+</sup>15].  
**-descents** [Cre14]. **-designs** [ZC18]. **-dGFEM**  
[SSW16]. **-dimensional** [NP14]. **-Discontinuous**  
[FW11]. **-error** [BFZ10]. **-estimates** [DE13].  
**-finite** [BJM17, DKS15]. **-formulae** [Chu11].  
**-fractional** [ABBM18]. **-function** [FLM14].  
**-functions** [CM13, Rob15, BF18, Büt15, Lan11,  
RTwaabRS16, ST18a, Tru15]. **-groups**  
[Sut11b, dGO14]. **-HDG** [LCQ17]. **-integrability**  
[SZ18]. **-inverses** [LWCI13]. **-isogenies** [CR15].  
**-linear** [HMS11, HP12]. **-matrix** [FMP16].  
**-Optimal** [SW10]. **-polytopes** [BZ18]. **-power**  
[AK12]. **-projection** [Che12]. **-radius**  
[BM12, CLTZ12]. **-ramified** [PV15]. **-reflection**  
[MP17]. **-regularized** [BCKM18]. **-series**

[Chu11, Chu12, Ram16]. **-singular** [LL15].  
**-spectral** [ZqCt16]. **-spheres** [BZ18]. **-stage**  
[Cer11, GM13b]. **-sum** [CZ14a].  
**-Superconvergence** [HFC18]. **-Sylvester**  
[DGKS16]. **-term** [DI15]. **-th** [CS13a, Har14].  
**-th-order** [WX13]. **-torsion**  
[CFLT14, Fis17, Zie10b]. **-tuples** [ZC13]. **-units**  
[BB17]. **-variate** [Was14]. **-vectors** [BZ18].  
**-version** [qWIGjY17]. **-wave** [FN11].

**12-split** [CLR13].

**abelian** [AK12, BMS16, Bis15, HL16, JdRV14,  
RR16, Sut11b]. **absolute** [FR15a]. **Absolutely**  
[FX13, ÁB17, BHS15, LCQ17, Sch17]. **absorbing**  
[BLW10]. **absorption** [GSV17]. **Accelerated**  
[GK11, TY17, LW16]. **Accelerating**  
[CZ14a, Fan14]. **Acceleration**  
[HC11, HC15, Adc11]. **Accuracy**  
[JXR12, CL10, GSS16, JvSRV14, XY13].  
**accuracy-conserving** [JvSRV14].  
**Accuracy-enhancement** [JXR12]. **Accurate**  
[Ye18, AH15a, BFS18, CPSV18b, ET10, JLM13,  
Kop14]. **achieve** [CQS14]. **achieved** [LPSH11].  
**acoustic** [CQB14]. **acting** [JKdR16]. **action**  
[BH13]. **active** [CD18]. **adapted** [MC12].  
**Adaptive** [BD15, Bör18, CGS18, CNV14, CGS15,  
CDHM12, DVY15, GV15, HMS14, Sfa13, BLW10,  
BGGG17, BMBO13, CR11a, CD15, CNZ16,  
DFR12, GM14, GM17, Git13, HW18, KSU16,  
Kre12, KG18, OWZD18, XZ15, ZCS<sup>+</sup>12].  
**adaptivity** [Bar15b, MR10]. **Addenda**  
[Alk11, BHM<sup>+</sup>12a]. **Additive**  
[Vab14, HK18a, Vab12]. **adelic** [CFLT14]. **adic**  
[BÇS15, BMS16, Dum17, KZ18, Rob15, Ser17,  
BÇS15]. **adjacent** [KZ18]. **adjoint** [PMH18].  
**admissible** [BCL<sup>+</sup>11]. **Advances** [BBC10].  
**advection** [BNMP18, HLL16, YDk12]. **AEDG**  
[LW18b]. **AFEM** [MMN11]. **affine**  
[Alf10, DJ12a, Kir10, SY16]. **aggregation** [CB16].  
**AGM** [Dup11]. **algebra** [IKRS12, Kem10].  
**Algebraic**  
[BY12, GPOS14, AZ18, Bat15, BHM12b, Dem14,  
DK15, HZ13, Lez14, McK11, NS13, RSTV10, Sid12].  
**algebras** [BJ11, DJ12b, PS14]. **algebroid** [Shi13].  
**Algorithm**

[Han15, ABF<sup>+</sup>10, ABBR17, BO15, Bia14, BST11, BJ15, BHH<sup>+</sup>12, Cal16, Chè13, FJK<sup>+</sup>15, FK18b, GGG11, GOP16, Har10, Har14, Hia16b, HY15, JLM13, JLH13, Joh15, KCL14, LM17, LW16, LGY15, Mor13, NJZ17, PPTZ13, ZY14, Zra10a].

### **Algorithmic** [BD13]. **Algorithms**

[DDL15, HZ13, MN14, SW13, AGHS14, AZ11, BGH14, BOP17, BP12b, BCCW16, CPSV18a, GMS12, Har11, Kus18, LZ18, Yan17, CFO<sup>+</sup>15, IKRS12, OWZD18]. **aliquot** [Boo18]. **Allen** [BM11]. **Almost** [KB16, Kön17]. **along** [He18]. **alpha** [DEJ14]. **alternate** [MS16]. **alternating** [YY13]. **alternative** [Hia16a]. **Alvero** [CLO14]. **amoebas** [TdW15]. **amortized** [Hia11].

### **amortized-complexity** [Hia11]. **Ampère**

[BCM16, BGNyS11]. **Anadromic** [LK12]. **analog** [RGNS18]. **analogue** [BMS16]. **Analogues**

### [MS16]. **analyses** [Mus18]. **Analysis**

[AV14, BPT10, COT17, CCQ17, CSV12, CC14, CL16, CGN<sup>+</sup>11, GH18, GZ13, GOS11, HS15, KCL14, KSX17, Kre12, OS13, SS16, Wan10a, Arg11, Bar10, BCFG17, BJV18, BGM15, BP12b, BGP14, Cao15, CCS12, CT10, CLWW16, CS13a, CGS10, CC12b, CQS14, CDHM12, DE10, DGM<sup>+</sup>16, DJTZ13, DRS11, FJS16, GMSC<sup>+</sup>17, GM10, GQ14, Gud10, GMS12, HK17, HMP13, JLM13, KO12, KPY18, Li15a, LS17, LZ17, Li18, LY17, MS10, OMS15, Ols12, Ort11, RS16, Sid10, TV10, Voh10, XZ10, Gav10a]. **Analytic** [Gau17, LP17c, AH15a, Büt18, FKBJ17, HLJ16, KSW17, YF15]. **Analytical** [Chu12]. **analytically** [Pla15, SW11]. **Ando** [BMP10]. **angular** [BC13a]. **anisotropic** [AADL11, CG16, Cao15, CDHM12, DI15, DT11, EE18, HP10, HZ17, KHX14, Kop14, Li18, RS16, Sty14]. **annihilators** [ST18a].

### **anomalous** [CLAT12]. **ANOVA**

[GKS17b, GKS13, GKS17a]. **any** [AADL11]. **AOR** [MYS12]. **AP** [BDFL17]. **Apostol** [Bay11, BC13b, NRV12]. **appearing** [KC11a].

### **Application**

[CMZ17, GÖS18, APR15, BJV18, BL12, CLTZ12, DE10, DL15, FA14a, KSX17, Alf10]. **applications** [AH15b, BB16, BNS15, BH16a, BMM18, CSW16, Fre18, HYZ14, JR18, JZ11, Seg17, Ste11, Gav10b]. **applied** [CMTZ16, DHMG11, HS13]. **approach** [AHS17, CJ15, DS17, Gav10b, HLZ15, HW18,

HLJ16, Kim17, KM16, KT18, LM13, RR13, Sog15, Sog16, ZY15, ZZWZ15]. **approaches** [HK17].

### **approximants** [FMP16]. **Approximate**

[GI16, MPT18, BO15, BCL<sup>+</sup>11, Pan17].

### **Approximating** [TdW15, PPTZ13, Was14].

### **Approximation**

[BG11, BMR16, GM14, GM17, HP10, Kve10, Rah14, Wan10b, AN15, AL16, BGN17, Bar10, BM11, Bar16, BCFG17, BKMW11, BJM17, BP15, BPT10, BTDG13, CDFS13, CDTW18, Chr18, CMS11, DPR14, Deb11, DI15, DLSW12, GGG11, GO16, HLZ15, HZ17, Hir13, HJW18, Jag12, KP14, LW18a, LZ15, LPSH11, LZ18, MNZ13, MNPW10, Mon10b, NT16, OS13, RS17a, RV14, SS15, SS16, UP14, WX12, WMxY17, Wen13, YF15].

**approximations** [AA11, AD13, BC17, ByTC13, BLT13, BFZ10, BCL<sup>+</sup>11, CW10, GV15, Gon13, GLNP15, GSRM12, GL12, GSS16, JK17, KRS14, LS10a, LLX11, LA14, NJZ17, ST18b, TZD15, Wan10a, ZC18, ZD14, dDHZZ14]. **Arbitrary** [KSX17, Fon11, KHX14, Sid12, YF15].

### **Archimedean** [KN12]. **argument** [Tru12].

**arising** [CGO10, MC13]. **Arithmetic** [ABBR17, Sij12, DFH18, FR15b, Mü14, NV17, Pag15, SW13].

### **arrays** [BH13]. **Artificial** [BNDHV15]. **Artin**

[AS15, PM11]. **aspects** [CS13b, LPD13].

### **assimilation** [BH18]. **associated** [BS15b, GV11].

### **assumptions** [Büt16]. **asymmetric**

### [BGN17, LZ15]. **Asymptotic**

[IL11, NRV12, Sid10, Sid11, SZW11, BFS18, BLT13, KC11a, KC11b, LWZ18, PR15, SZ18].

### **asymptotic-preserving** [BLT13]. **Asymptotics**

[GS10, IPZ15]. **atomistic** [OS13].

### **atomistic/continuum** [OS13]. **attached**

[RSS12, RTwaabRS16]. **augmented**

### [COT17, HYZ14, MYS12, YY13]. **Automatic**

[GLLZ14]. **automorphism** [LRS16].

### **automorphisms** [GPOS14, HKW17]. **auxiliary**

[CHH18, KCL14]. **Average**

### [KtR10, Was14, BB12, Shp11]. **averaged**

[COS14, Spa17]. **Avoidability** [RR16]. **avoiders**

[Kus18]. **avoiding** [ADL11]. **axisymmetric**

[CGO10, Li15a]. **axon** [SS16].

### **B** [CLR13, DPR14]. **B-spline-like** [CLR13].

**B-splines** [DPR14]. **babystep** [Hit18]. **back**

[HLL16]. **Backward** [AK16, GT16, JX14]. **bad** [BDFP15]. **balance** [CPSV18b]. **balanced** [AG16, BC16, BCL15, CPPT10, DZBK16, Han10]. **band** [OS16a]. **banks** [HZ13, Han15]. **barotropic** [BGM15, MO13]. **barrier** [AZ11]. **barycentric** [Kle13, RGB14, RS17b, WHV14]. **base** [KT10, TK12]. **based** [ABBR17, BO15, BCFG17, CZ12, CHZ17, CCS12, CD18, CGN17, CM14, CGS10, CDHM12, CLR13, DOZ13, FA14b, FR15b, HH13, HYZ14, HFC18, KPY18, LZ17, LM13, MP12, MSW16, NKK17, OS13, RW18, TWO18, Voh10, Yan17, ZDL13, ZGFD14]. **bases** [BD11, CDFS13, GVW16, HH13, HNRW18, JZ11, JD14, KP11, La 15, LNRW18, Mel18, NRW17, SW17, Ste11]. **basis** [AJ14, CSV12, CLR13, DZ16, MNPW10, NH11, UP14]. **Bass** [JdRV14]. **Baxter** [GV17]. **Bayesian** [ST18b]. **BDDC** [Cal16, OWZD18]. **be** [Kop14]. **beam** [BMR16, LRT13]. **beams** [CCS12]. **Bel** [Sij12]. **Bell** [MNW10]. **Bellman** [BFZ10]. **Bellman's** [Kry13]. **Beltrami** [BP12b, HP12, MMN11]. **BEM** [FMP16, FHK17, HS15, MSS11]. **Bernoulli** [Bay11, BC13b, Har10, Har14, NRV12]. **Bernstein** [MNPW10, Not15, Spa13, WO10]. **Best** [DLSW12]. **Better** [BBKZ16]. **between** [ALS17a, LOX14, Ten10]. **bi** [CH13, FN11]. **bi-CH13**. **bi-wave** [FN11]. **biased** [MSW16]. **bidegree** [SSV14]. **bifurcation** [SY16]. **biharmonic** [EGHL12, LL17]. **bilateral** [Chu11]. **billion** [HHO17]. **binary** [BER17, LOX14, Pro17, RJS12]. **biomembranes** [BGN17]. **biorthogonal** [Han10, LS10c]. **bipartite** [HÖ14]. **biperiodic** [BLW10]. **Birch** [BMS16, Ble12]. **bisection** [MC12]. **Bittner** [LZ13]. **bivariate** [BL12, FA14a, KS15]. **blob** [CB16, HL17, LY17]. **BMR** [MP17]. **body** [FGMS12]. **Boltzmann** [CGP12, HY15]. **Bombieri** [AH15b]. **Book** [Gav10a, Gav10b, Gav11, Gra11, Hai10, Kem10, Naz10]. **Borcherds** [BEF16]. **border** [KP11]. **Borwein** [DJŠ18]. **boson** [HY15]. **bound** [AH14, BJ15, CW15, FJK11, SGD11, Sfa13, Ten10, Tho10, Tru12, Tru15, UP14]. **boundary** [ALS17b, APR15, AFF<sup>+</sup>17, BR18, BHL18, CQT11, CGN17, CQS14, CG11, DKMW13, GHS10, Gav11, He18, HW18, Li15b, LLS17b, LS10b, MS10, QS16, Ste11, WKN13, ZZ14]. **bounded** [Bar15b, BCPR14, DK15, FW14, Kru16, LWCI13]. **Boundedness** [HS11, Spi17]. **Bounding** [CMSC10, Büt18]. **bounds** [BS18, BBR12, CG14, CGN17, DL13, FK15, FK18a, FS12, Fre18, GP17, GM18, Hur18, JKLM17, JR18, LLS15, LLS17a, Lep16, LP18b, LXX14, Lou11, MFRV18, Mel18, Mor11, Nie15, PR15, PM11, Spa13]. **Boussinesq** [AD13]. **box** [BBC10]. **braces** [GV17]. **branch** [vdBLM10]. **Bregman** [YMO13]. **Brent** [BJ15]. **Brownian** [JLH13]. **Bruijn** [SGD11]. **Brumer** [GRT15, GRT04]. **Buffa** [NKK17]. **Burgers** [ALS17a, HLR13]. **Burmeister** [PKLC14].

**cable** [LLX11]. **Cahn** [BM11, CS18, CLWW16]. **Calculating** [AM11, FKBJ17]. **calculations** [CL16]. **calculus** [AL17b]. **can** [GKS17a]. **canceling** [YDk12]. **cannot** [ELSW18]. **canonical** [CLRR12, HJSZ18, Mül14, Tho10, Wel17]. **capture** [DZBK16]. **capturing** [CJLW18]. **Carlo** [AH14, BSSW14, HPS17, He18, KSS<sup>+</sup>17, MSM14, MS12]. **Carmichael** [AGHS14, CLPM16, Zha11b, Zha15]. **Cartan** [FG17]. **Cartesian** [NM17]. **Casas** [CLO14]. **case** [Deb11, EGHL10, GH18, LMY12, WO10, Was14]. **Castelnuovo** [Has12]. **Cauchy** [Bur17, Pan17]. **cell** [BDFL17, CJLW18]. **cell-centered** [BDFL17]. **cells** [DiP18, GH15]. **cellular** [ZGFD14]. **centered** [BDFL17, CPV14]. **central** [KMF17, MP12, RTwaabRS16]. **central-difference** [KMF17]. **certain** [Bia14, Büt15, JST14, RSS12, SZW11]. **Certification** [Mas18]. **Chabauty** [BBM17]. **change** [PT16]. **changes** [ABF<sup>+</sup>10, FK18b]. **Character** [BKS15, BB16]. **characteristic** [KZ18, VJS14]. **characterizations** [SX16]. **Chebyshev** [AHHR15, BJM17, NP17, SH11]. **Chebyshev-type** [AHHR15]. **Chinese** [Sut11a]. **Choice** [CGH<sup>+</sup>16]. **Choosing** [RS10]. **Chow** [DDL15]. **Christiansen** [NKK17]. **Christoffel** [NJZ17]. **chromatic** [KÖ18]. **Chudnovsky** [ABBR17]. **CIR** [Alf10]. **circle** [Peh11]. **circles** [RSTV10]. **circuit** [ITT12]. **circular** [GX17]. **Circumscribed** [BST11]. **clamped** [BySZ12]. **Class** [Kuc11, AK12, Akr16, AZ11, BJV18, Bia14, BMPR16, DM14, Die11, GL15, GM18, GMS12,

GSS16, Jin10, Kon14, KPY18, LOX14, Lou11, Mel16, Mil15, MJ16, ST18a, Spa13, Str14b, Sut11a, TZD15, Vab12]. **classes** [Ang16, BCCM13, GM14, GM17, PS14, SZW11, ULS12]. **classical** [AD13, ADGP13, BFS18, Kve10, LZ18, RS17b, WHV14]. **classification** [BP12a]. **Classifying** [dGO14, KMSwaAbMDS12, RR13]. **cloaks** [LHY15]. **clusters** [BGGG17]. **CM** [RS10]. **coalescing** [DP15]. **coamoebas** [TdW15]. **Coarse** [KPRBT14, HSW10]. **Coarse-graining** [KPRBT14]. **cochain** [FW14]. **coderivatives** [LW18a]. **codes** [MC13, HM14]. **coding** [AHS17]. **coding-theoretic** [AHS17]. **coefficient** [JL12]. **coefficients** [AH15a, BHW13, BH16b, CDS10, Kve10, Lan11, LS17, MS14, NT16, Sid11, ZY15, dDHZZ14]. **cofinite** [FJK11]. **Cohen** [COT15]. **Cohomology** [AGM10]. **colleague** [NP17]. **collecting** [Ang16]. **collision** [HY15]. **Collocation** [KMPW10, CT10, DKMW13, DGM<sup>+</sup>16, NJZ17, qWIG;Y17, ZqCt16]. **color** [ABE<sup>+</sup>16]. **Combinatorics** [SV12]. **combined** [ES16]. **Combining** [ALL17]. **comments** [HP13]. **Commuting** [CQ14]. **compact** [Dem14, HNRW18, LPRY10, LPSH11]. **companion** [BEG16]. **companion-like** [BEG16]. **comparison** [LMP15, SZ18]. **compatible** [PS16]. **compensation** [HLL16]. **complementarity** [PKLC14, ZY14]. **Complements** [Cof14]. **Complete** [Bat15, KL13, BGH14, Fuk11]. **completely** [KL10, LA14]. **completeness** [Büt15]. **complex** [ASSW16, BAS16, BLS13, HZ14, HP16, JKLM17, NKK17, SD11]. **complexes** [Nei15]. **complexity** [BGH14, Hia11]. **component** [BCL15]. **components** [Boo18, LW12, LW15]. **Composite** [Pet14, BK12, IL11, WLZ17]. **composites** [BS15a]. **compositum** [DLRNS18]. **compressed** [BO15, BMBO13, CDTW18, BNMP18]. **compressible** [EGHL10, GHLM18, KK11, Wil18]. **compression** [Bör18]. **Compressive** [RS17a]. **Computable** [Sch17, BHS15, MSM14, TU18]. **Computation** [BBC14, BB16, BAFG18, Cin15, HL16, KK14, Kön17, LPRY10, Lez14, TK12, AL17a, Bia14, BCPR14, DY12, Dem14, Fen18, FR15b, Fuk11, GM15, Has12, JLM13, JX14, LMS11, LRS12, LW12, LW15, Nar14, OHP14, RSS12, Sut11b, ZY15, dR11]. **Computational** [CS13b, Kem10, LPD13]. **Computations** [Hur18, KS17, NM12, Pan17, Pla16, RS14]. **compute** [CJ15, DRS11, Hia11, IKMF17, KPSY18, Mor13]. **computer** [PPTZ13]. **computers** [ZGFD14]. **Computing** [AJ14, BBM17, BF15, Bis15, BJ11, Bru13, Che16, CDDM18, CR15, DD10, DK15, GPR13, GV11, HKL16, HKW17, KC15, Kru16, Kuz15, Lab18, Lai16, Ler12, MX18, McK11, Mü14, NP12, Olv11, PS14, Pag15, PV15, Pla15, Rau16, Rob15, RY15, ST18a, Str14b, Sut11a, Tho10, VJS14, Wel17, XY13, PDSV15, BCCW16, DFH18, GVW16, Gra11, Har10, Har14, NN16, NP17, Ye18, BCKM18]. **concavity** [CC13b]. **concerning** [Pla16]. **condition** [BR18, Ngu16, SS15, TV10, ZD14]. **Conditional** [LLS15, MMN11, LLS17a]. **conditionally** [BzCS12]. **conditioned** [Ye18]. **Conditioning** [KHX14]. **Conditions** [CQS12, CS13c, BNDHV15, GT16, HP10, LLS17b, MS10, PMH18, Ste11]. **conductivity** [ABF<sup>+</sup>10, AKLZ12]. **conductor** [GM15, Mil15, PM11, Sad14]. **cone** [PKLC14, ZY14]. **cones** [ZZWZ15]. **confederate** [NN16]. **Conformal** [LPD13, LPRY10]. **Conforming** [GN14, CW17, CS14, HFC18, HZ15, Nei15]. **conformity** [CQS14]. **congruence** [AGM10]. **conjecture** [AKR18, AT16, BMS16, Ble12, BD13, CLO14, CH13, COT15, CR11b, GRT04, GRT15, HS12, Hur18, MP17, OHP14, StR14a, Sza11]. **conjugates** [DHJ17]. **conjunction** [KZ18]. **connected** [Boo18]. **conquer** [CL16]. **conservation** [BCG16, BGP14, CZ11, CJ13, CMR10, CJLW18, Dro10, GI16, HMS14, IPZ15, KSX17, LZ16, MS12, Sfa13, Xu14b, YDk12]. **Conservative** [BCKX13, CY18]. **conserving** [JvSRV14]. **consistency** [ST18b]. **consistent** [BCM16, GMP14]. **constant** [BS16, BD13, CIL15, DEJ14, FJK11, MNZ13, SGD11]. **constants** [AL17a, AH15b, BTDG13, FLM14, KC11a, KC11b, Mor11]. **constrained** [Bar16, Ish17, MPT18]. **Constraints** [CLO14, LRS12, OWZD18]. **construct** [FK18b]. **constructed** [COQ10].

**Constructing**

[AGHS14, BM12, Kon14, LOX12, Sut12, Han15].  
**construction** [ÁB17, CXZ15, GH13, LA14].  
**Constructively** [BTDG13]. **contact** [CHR15].  
**contain** [McN15]. **context** [CSV12]. **continuation**  
 [BO15, LP17b]. **Continued**  
 [GM13b, GMZ11, Jag12, LP18a, MRW10].  
**continuity** [BTDG13]. **continuous**  
 [BG11, LL17, Yao13]. **continuous/discontinuous**  
 [LL17]. **continuum** [AH17, OS13]. **contour**  
 [LFS15]. **Contraction** [CNZ16, MMN11].  
**contrast** [CGH10]. **Control** [LZ16, APR15,  
 Bar15b, BER17, CGN17, DVY15, GP14, CG16].  
**controls** [BMR16]. **convection**  
 [CC14, CMZ17, FKS12, GLL12, GO16, HH13,  
 IW13, JXR12, KRS14, Liu15, LW18b, IW13].  
**convection-diffusion** [CMZ17, FKS12, GLL12,  
 GO16, JXR12, KRS14, Liu15].  
**convection-diffusion-reaction** [HH13, IW13].  
**Convection-dominated** [IW13]. **Convergence**  
 [Adc11, ALS17a, ALS17b, BCG16, BCS16, BP12b,  
 CG16, CD15, CT10, CLWW16, CXZ16, CMR10,  
 DKMW13, FJK<sup>+</sup>15, GLL12, GHLM18, GMS12,  
 HS13, KK11, KG18, LGY15, MS10, MO13,  
 Mon10b, WNK18, XZ15, ZCS<sup>+</sup>12, AL16, Arg11,  
 BFS18, BAS16, BGGG17, BDFL17, Che12, CD10,  
 DZ16, DLPW11, Fan12, GL15, Jin13, KO12, KP14,  
 Li10, Li15b, LY17, MP12, NT16, QzSZ15, Str13,  
 WX12, XWZ13, Xu14a, Yao13, ZZ14, dW11].  
**Convergent** [BP10, EGHL10, LS18, Mon10a].  
**converging** [ADL11]. **convex** [BL12, DHYZ17,  
 GL12, HYZ14, HLZ15, LS17, TY17].  
**convex-dense** [BL12]. **Convolution** [BR18].  
**coordinates** [NM17, RGB14]. **corner** [FKS12].  
**correct** [RS10]. **correction**  
 [BHM12b, BHL18, COQ10, HLL16, LX15, Pet17].  
**Corrigenda** [BHM<sup>+</sup>12a, Alk11]. **Corrigendum**  
 [FK18a, GRT15, HC15, LLS17a]. **Costabel** [QS16].  
**counterexample** [AT16]. **counterexamples**  
 [CLO14]. **Counting** [BS15a, HÖ14, Tui16, Zha11b,  
 Coh15, KtR10, Kus18, Tru15]. **counts** [Zha15].  
**coupled** [GOS11]. **Coupling** [BCL15, ALS17a,  
 CGH<sup>+</sup>16, FHK17, GHS10, HS15, MSS11, NKK17].  
**Covering** [SSV17, MC13]. **coverings**  
 [CLTZ12, FS12]. **covers** [RS14]. **Cox** [HKL16].  
**Crandall** [Cof14]. **Crank**

[AKPZ15, Ing13, RS16, Xu14a]. **Cremona** [SV12].  
**criteria** [MRW10]. **criterion** [KC11a, Shi13].  
**critical** [Che16, HO12, Tru12, Yao13]. **cross**  
 [GLLZ14]. **cross-derivatives** [GLLZ14]. **Crouzeix**  
 [CGS15, DL15]. **crystallographic** [BK12].  
**crystals** [GGG11]. **cubature** [SX14]. **cube**  
 [He18, KÖ18, Lan11]. **cubes** [CQ14]. **cubic**  
 [BHM<sup>+</sup>11, BHM<sup>+</sup>12a, DLRNS18, Fan12, HP16,  
 JKK<sup>+</sup>10, JKL11a, Jeo16, Kim17, Lou11, Mor13,  
 RJS12, ZQY12]. **cubical** [AA14]. **Cui** [CS13b].  
**Cullen** [GOM11]. **Cuntz** [DJ12b]. **curl**  
 [RV14, ZHX11]. **curse** [HNUW14]. **curve**  
 [Baa10, DGP10, FG17, Fis17, FK18b, RS10].  
**curves** [ASSW16, Baa10, BBM17, BB17, BBLP13,  
 Bru13, BF18, Che16, CFLTL14, Cos10, CR15,  
 CFO<sup>+</sup>15, Cre14, DS18, DLRNS18, Die11, DF14,  
 FFS<sup>+</sup>13, FS12, GJLR18, JKK<sup>+</sup>10, JKL11a,  
 JKL11b, Jeo16, KK10, Kir10, KZ18, LRS16, LP17b,  
 MS13, MS16, Nel15, RS14, Sad14, SS14, Shi13,  
 Sij12, SW13, Sut12, Tho10, Tui16, ULS12, VJS14,  
 Wut18, Zie10b, vdBLM10]. **cuspidal** [FK18b, PY15].  
**cut** [BHL18]. **CWENO** [CPSV18b]. **cycles**  
 [CLTZ12, HÖ14]. **cyclic**  
 [Jeo16, LRS16, LM17, NP12]. **Cyclotomic**  
 [Xia18, AM11, FLM14, Kar13, Mil15]. **cylindrical**  
 [LHY15].

**D** [BKN15, HFC18, LWZ18, ABBM18, AN15,  
 ALS17b, DHMG11, EHR18, IPZ15, KP12, LZ16,  
 Ort11, OS13, XZ10]. **DAEs**  
 [DKMW13, KMPW10]. **damped** [AG16].  
**Darboux** [BCCW16]. **Darcy** [ALS17b, CGHW14,  
 GOS11, GRBT16, MZ10, SW11]. **Darmon** [GM15].  
**data** [Bat15, BH18, CQT11, CS13a, CM14, DS17,  
 EFP10, GLL12, Gon13, MS12]. **decay** [CM12].  
**decimal** [MNZ13]. **decomposition**  
 [AH17, AZ11, BCNS12, CGHW14, Chè13, GX17,  
 GSV17, GKS13, GKS17a, GKS17b, GM15, HK17,  
 HSW10, IW13, JgLW13, KPY18, LZ17, Yan17].  
**decompositions** [CFS17, KSWW10, Rah14].  
**Decoupled** [MZ10]. **decoupling** [GGG11].  
**Dedekind** [BF15, GM16b, GM16c, Lou11, Tru15].  
**deferred** [BHM12b, COQ10]. **deficiencies** [SY16].  
**defined** [Bar15b, Ler12]. **definite** [BzCS12, Kir12].  
**degenerate** [BHW13, CG16, GK11, KRS14].  
**degree** [BCPR14, CLO14, CH13, CC14, CW17,

CZ14b, FR15b, GRT04, GRT15, Lan11, OS10, RSS12, Sør16, Zie10a]. **degree-3** [Lan11]. **degrees** [AK12, LOX14]. **Dejean** [CR11b]. **Delaunay** [DI15]. **delays** [ZqCt16]. **Delsarte** [Hei12]. **deluxe** [Cal16, OWZD18]. **d'enfants** [KS17]. **dense** [BL12]. **density** [DFH18, FA14a, Ish17, LS18, Ram16]. **dependent** [CGHW14, CMQ13, FM18, GRBT16, JvSRV14, LZ17, Ols12, PS16, ZD14]. **depth** [IKMF17]. **derivation** [NH11]. **derivative** [Naz10]. **derivative-free** [Naz10]. **derivatives** [ELSW18, GO16, GLLZ14, ST18a]. **derived** [NRV15]. **descent** [CFO<sup>+</sup>15, LRS16, MS13, MPT18]. **descents** [Cre14, Fis17]. **description** [Bur10]. **Design** [FGMS12, MMN11]. **designs** [BSSW14, ZC18]. **desingularized** [NM12]. **dessins** [KS17]. **determinant** [ELSW18]. **Determinantal** [LP17b]. **determinants** [Bor10, JLM13]. **Determination** [Hut15, KPSY18]. **Deterministic** [Hit17, TCH12, ASSW16, AG14, BKS15, CH14, FFS<sup>+</sup>13, Hia16b, Hit18, Zra10a]. **DG** [HS15]. **dGFEM** [SSW16]. **diagonal** [Els12]. **diagrams** [CQ14, JK17]. **diaphonies** [Ser17]. **difference** [AK16, BC13a, BS18, BJKM11, CY18, CLWW16, CG11, Fen18, GÖS18, GK11, HFC18, KRS14, KMF17, Kry13, La 15, LLX11, SV14, Ten10, TZD15, Vab12, WNK18, Xia18, YDk12]. **difference/spectral** [LLX11]. **differences** [CWX16, Hit17, Kry13, LRS12, LFS15, MF11]. **differencing** [JLQZ18]. **differentiable** [KPW14, Yao13]. **Differential** [Chr18, AZ18, AA14, Bar16, BHM12b, BTDG13, CSW16, CR16, Deb11, FHN17, GG17, GT16, Hai10, HLR13, HLJ16, HJW18, JLPR15, KSU16, KHOLT14, LK12, MDK13, Mus13, NT16, RW18, RS16, WX13, qWIGjY17, WKN13, Xu14a, Yan17, Ye18]. **differential-algebraic** [AZ18]. **differentials** [FG17]. **Differentiation** [dHAL11, HWZ14, SV14, XWZ13]. **different** [Nar14]. **diffusion** [BNMP18, CC14, CNOS16, CMZ17, CFS17, DJ13, DJTZ13, EFP10, EHR18, FKS12, GLL12, GO16, GSRM12, HH13, HPS17, IW13, JXR12, KRS14, KP12, KSS<sup>+</sup>17, LNRW18, Liu15, LW18b, Mus18, SS15, TZD15]. **diffusion-reaction** [BNMP18]. **Diffusive** [LMY12]. **digit** [KZ18]. **digital** [DK10]. **digits** [Kir10, MNZ13]. **dilation** [BK12]. **Dilational** [HA11]. **dilogarithm** [O'S16b]. **Dimension** [DiP18, Bis15, BFZ10, CQT11, CCD16, KSX17, Mou14, NV17, RPR12, Sør16]. **dimensional** [AKPZ15, AJ14, BCL15, BPT10, BCNS12, CZ16, CLAT12, CCLX17, CDTW18, CM14, CMR10, DKS15, GM10, Gne12, Gra11, HKK13, LMS11, LMY12, LZ15, LW18b, LS10b, NP14, Rah14, RS17a, Xu14b]. **dimensionality** [HNUW14]. **dimensions** [Adc11, Cal16, CC12b, JXR12, Nei15, WNK18]. **dimer** [GOP16]. **dimer-type** [GOP16]. **diminishing** [BNS15, CG16]. **Diophantine** [BH16a, Nie15, Ula14]. **Dirac** [Chr18]. **direct** [GHS10, JKdR16, Liu15]. **direction** [GMS12, YY13]. **Directional** [AHHR15, Arg11]. **Dirichlet** [CFJ12, CGN17, LA14, MS10, Ram16, RSS12, Tru15]. **Dirichlet-to-Neumann** [MS10]. **discontinuities** [Kve10]. **Discontinuous** [Abd12, AW11, CZ16, CW10, ES16, FN11, FW11, BCS16, BCKX13, BD15, CGS18, CCQ17, CGP12, CMZ17, CCLX17, CNZ16, CD16, DT11, FX13, FM18, GH18, GHS10, GV15, GMP14, Gud10, GP14, He18, HMP13, HW18, HMS14, JXR12, JvSRV14, KM15, KSX17, KG18, LL17, Liu15, LM18, MSW16, Mus13, NM17, SW10, Wil18, XZ10, YPP13, dDHZZ14, DE10]. **discontinuously** [JKdR16]. **discrepancies** [Sch17, WW10]. **discrepancy** [AH14, ÁB17, Jin13]. **Discrete** [AGS16, DE10, HK17, Nei15, ADGP13, BCL<sup>+</sup>11, BKN15, CLWW16, Cin15, Die11, GPR13, GT16, Hak13, HJHM15, JX14, KCL14, KMF17, KP14, LP17a, Sut11b, VJS14]. **discretisation** [RW18]. **discretization** [Alf10, AdvV13, BP10, BCM16, BDFL17, DVY15, GH18, KO12, KZ11, LXX14, LM15, SW11, Wan10b]. **discretizations** [ALL17, AKPZ15, CPV14, ETX11, MS10]. **discretized** [CS18]. **discriminants** [JW12, Nar14]. **Disk** [Kir10]. **Disk-like** [Kir10]. **dislocations** [GM10]. **dispersive** [BJV18]. **displacement** [BySZ12]. **Disproof** [HS12]. **dissipative** [HS13, Wan10b]. **distance** [FM12, LPD13]. **Distinct** [HZ14]. **distributed** [XZ15]. **Distribution** [LSW14, FLM14, JST14, Shp11].

**distributions** [Hoa16, SZW11, ST18b].

**Divergence** [CS14, Ste11, Zha11a, BCNS12, FHN17, GN14, SW11, WW18].

**Divergence-conforming** [CS14].

**Divergence-free**

[Ste11, Zha11a, BCNS12, GN14, SW11]. **divide**

[CL16]. **divide-and-conquer** [CL16]. **Divided**

[MF11, LFS15]. **Divisibility** [Pap15, Mah14].

**divisible** [FLM14, Meš14]. **divisor** [BBR12].

**divisors** [KC15, PY14]. **Dixon** [Chu12]. **does**

[BKMW11]. **Domain**

[GSV17, AA11, AKPZ15, CGHW14, GX17, HK17,

HSW10, JgLW13, LHY15, QS16, Yan17]. **domains**

[GMS12, Li18, ZZJZ18]. **dominated** [IW13].

**double** [Bur10, CD15, CMS11, Rit10].

**double-well** [CD15, CMS11]. **Dougal**

[Chu11, CZ14a]. **Douglas** [DZ16]. **DPG**

[BDS18, FHK17, GQ14]. **dream** [HKW17]. **driven**

[KHOLT14]. **Dual**

[FJS16, Han10, Han15, WW18, YMO13]. **Duality**

[DK10, BKN15, DJ12a, LMP15, FJS16].

**dwindling** [CS15a]. **dyadic** [Alk10, Alk11]. **Dyer**

[BMS16, Ble12, Che16]. **dynamic** [BOP17].

**Dynamical** [HR10, GPOS14, OS10, Wan10b].

**dynamics** [BGN17, CGH<sup>+</sup>16, EE18, GM10,

JLH13, LRS12, LZ18].

**easily** [LLP16]. **ECM** [BBLP13]. **edge**

[BLW10, ZCS<sup>+</sup>12]. **Edwards** [BBLP13]. **effect**

[GKS13, GKS17b, Pet17]. **Effective**

[FR15b, BMP10, FJK11, KC11b]. **Efficient**

[BCCW16, Has12, KZ11, AG14, KSU16, ZY14].

**Eigenanalysis** [ZGFD14]. **Eigenanalysis-based**

[ZGFD14]. **eigenforms** [KPSY18]. **eigenmode**

[Chr18]. **eigenproblems** [SX16]. **eigensolvers**

[SX16]. **Eigenvalue** [CM12, Mel18, BGGG17,

BG11, CGS15, HC11, HC15, LX15, Nak11].

**eigenvalues** [CG14, DP15, GV11, JST14, NP17,

SL17, SX16, Ye18]. **eight** [JD14]. **Eisenstein**

[BI10, KPSY18, Lan11]. **elastic** [BPT10, CXZ16].

**elasticity** [BNDHV15, CHH18, CHR15, CGG10,

DL15, QSS18]. **electromagnetic** [AKKL12].

**electromagnetics** [CGO10]. **electronic** [CL16].

**element** [Abd12, AV14, AA11, AGS16, ABHV11,

AD16, AKPZ15, APR15, AA14, AL17b, BP10,

BLW10, BGN17, Bar10, BCFG17, BHW13, BD15,

BySZ12, Bur17, BHL18, BH18, Cao15, CR11a,

CD15, CT12, CWD14, CS13a, CR16, CGH10,

CGG10, CD16, CL10, DKS15, DGS11, DLSW12,

DJTZ13, DT11, Dua14, DRS11, DE13, ETX11,

EFP10, ES16, EGHL10, FN11, FHN17, FKS12,

GM14, GM17, GHS10, GOS11, GRBT16, Gav11,

Gon13, Gud10, GZZ17, GL12, GSS16, HFC18,

Hir13, HW18, HZ15, JLTZ17, KHX14, Kre12,

LHY15, LS17, Li18, LMNN18, MS10, NM17, OS16a,

SL17, Voh10, WX13, WY14, WW18, XZ15, ZHX11,

ZCS<sup>+</sup>12, ZD14, CG16]. **element-finite** [EGHL10].

**Elementary** [GM15]. **elements** [BG11, CHZ17,

CH13, CW17, CQ14, GN14, GO18, HZ17, Kop14,

LP17a, LPSH11, Pet14, RGB14, Sty14, Zha11a].

**Eliminating** [Pet17]. **ellipsoid** [BST11]. **Elliptic**

[CFLTL14, ASSW16, Abd12, AV14, AN15, AdvV13,

Baa10, BC17, BBB16, BHW13, BP15, Bur17,

CGS18, CZ10, Che16, CNOS16, CGH10, CQS12,

CD16, CFO<sup>+</sup>15, Cre14, DS18, DLRNS18, DGP10,

FFS<sup>+</sup>13, FHN17, FS12, Fis17, Fuk11, Fuk12, FK18b,

Git13, GJLR18, Gud10, GP14, GK11, HPS17, Hei12,

HW18, HSW10, JKL11a, JKL11b, Jeo16, JZ11,

KZ11, Kry13, Li15b, LFS15, MP14, Mah14, MS13,

MS16, Mü10, OS16a, Pet14, DD17, RS10, RS14,

Sad14, SSW16, SW10, SW13, Sut12, Tho10, ULS12,

WY14, WW18, WKN13, Wut18, YPP13, dDHZZ14].

**elliptical** [LHY15]. **embedding** [LOX14, RPR12].

**embeddings** [SX14]. **Empirical** [OHP14, Gau17].

**employment** [BKM18]. **endomorphism**

[Bis15, FK18b]. **endpoint** [Sid11, Sid12]. **energies**

[EE18]. **Energy** [GMP14, JLQZ18, ALL17, COS14,

CGN17, DGS11, GS10, HY15, Ish17, LMP15,

LRS12, LGY15, OS13, PPTZ13]. **energy-based**

[OS13]. **enforcing** [CGG10]. **Engquist** [CMR10].

**enhancement** [JXR12]. **enriched** [ABHV11].

**Entropic** [CJLW18]. **Entropy**

[CNPT10, ABBSM16, BGM15, BC16, BGP14,

CG16, GPOS14, Wil18]. **Entropy-satisfying**

[CNPT10, BC16]. **entrywise** [XY13].

**Enumeration** [BvH11, EW16, KÖP15, Bur10].

**epitaxial** [JLQZ18, QzSZ15]. **epsilon** [BD13].

**equal** [BD10b, RPR12]. **equation**

[AH17, ABE<sup>+</sup>16, ALS17a, AG16, AL16, AKPZ15,

BR18, BC13a, BCLZ14, BJKM11, BCKX13, BC14,

BGNyS11, BDFL17, BMR16, CCOV14, CC12a,

CLAT12, CLWW16, CQB14, CB16, FN11, FW11,



FX13, GMZ11, GLL12, GZ13, GM10, GV17, Hak13, HH13, HFC18, HKRT11, HL17, HP12, KM15, KP14, LLX11, LY17, MRW10, MS10, PZ17, WNK18, Xu14a, YDk12, ZZJZ18]. **Equations** [Baa10, AN15, Akr13, AK16, Akr16, ALL17, AZ18, AD16, AHHR15, BP10, BM11, Bar16, BFS18, BLT13, BC16, BH16a, BD10a, BCCM13, BFZ10, BGP14, BNDHV15, BCL15, BCNS12, BDS18, BHM12b, BTDG13, CZ12, CG16, CZ16, CCQ17, CMTZ16, CT10, CQT11, CC14, CSW16, CCD16, CGP12, CMZ17, CCLX17, CS13a, Chr18, CW10, CDDM18, CMQ13, CMS11, DM14, DJ13, Deb11, DL13, DE10, DF14, DHMG11, DGKS16, EHR18, Fan12, Fan14, FHN17, Fen18, GHLM18, GLS11, GRBT16, GG17, GT16, Gon13, GL15, GMS12, HP10, HS13, HMP13, HR10, HLR13, HKK13, HLL16, HLJ16, HJW18, IW13, Ing13, ITT12, JXR12, JZ11, JLTZ17, KHX14, KRS14, KSU16, Kim17, KHOLT14, Kry13, LS18, LMY12, LZ15, LK12, Li15a, LLS17b, LS17, LZ17, Liu15, LW18b, LWZ18, LCQ17, LM15]. **equations** [MSW16, Mon10b, MR10, Mus13, Mus18, NT16, Nie15, OMS15, DD17, PS16, QS16, RW18, RS17a, RS16, Rit10, SS15, SS16, Seg17, SY16, Ste11, TU18, Ten10, TZD15, Vab14, WX13, qWIGjY17, WW18, WKN13, Wen13, Wil18, Wu10b, YPP13, Yan17, ZHX11, ZqCt16, ZCS<sup>+</sup>12, Zie10a, Hai10]. **equidistribution** [CS13b, HK17]. **equivalence** [BBB16]. **Equivariant** [BD11, Ble12]. **Erdos** [GMZ11, PY14]. **Ergodic** [Jor12]. **Errata** [Coh12, GM17, LN14, BR05, BR11]. **Erratum** [LW15, Szm13]. **Error** [AADL11, AG16, AD13, AD16, Bar15b, CS18, CGN17, Gon13, HMP13, HL17, JKLM17, LRT13, LW18b, Spa13, Ten10, YDk12, AW11, AC18, APR15, BC13a, BS18, BM11, BER17, BFZ10, BJ15, CHZ17, CY18, CPV14, CCS12, CMTZ16, CT12, CGS10, CMQ13, CQS14, CZ14b, DM10, DL13, DVY15, DJTZ13, FA14a, Gud10, GP14, GSRM12, GL12, HLL16, JvSRV14, JLQZ18, KM15, KRS14, KZ11, LL17, LS10a, Li18, LP18b, LXX14, Liu15, MSW16, MR10, Mus18, Not15, RS16, Sty14, TU18, Tru15, UP14, Voh10]. **errors** [BKM18, GG17, JR18, Rah14]. **Escott** [Cal13]. **essential** [GMRL18]. **essentially** [XY13]. **estimate** [CHZ17, CPV14, CZ14b, HL17, Ram16]. **Estimates** [Dus16, AADL11, ALL17, AG16, AC18, AD13, AD16, APR15, AFF<sup>+</sup>17, BC13a, BM11, BFZ10, CS18, CY18, CMTZ16, CT12, Che12, CMQ13, DM10, DGS11, DE13, Gon13, GSRM12, GL12, HJHM15, JvSRV14, JLQZ18, KM15, KRS14, KZ11, Kry13, LL15, LMP15, LL17, LS10a, LRT13, Liu15, LW18b, MSW16, MNPW10, NRV12, Ram15, Sty14, TU18, WO10, WKN13, ZD14]. **Estimating** [Büt16, Zha15]. **estimation** [AW11, MR10]. **Euclidean** [Cer11, GM13b, Lez14, LM17, Nak11]. **Euler** [Bay11, BGM15, CNPT10, FLM14, HS13, Meš14, NRV12, NT16, Pro17, Sid12]. **Eulerian** [KSX17]. **Evaluating** [BL14, Mez11, Nel15]. **evaluation** [BS16, BKM18, Bor10, Doo15, Dup11, Esp10, FA14a, KM16, LP17c, NS18]. **evaluations** [GLLZ14]. **even** [NP14, OHP14, VJS14]. **event** [LM18]. **Eventual** [DZ16]. **Every** [CLB18, Tao14, GKS17a]. **evidence** [Ble12, HO12]. **evolution** [CMS11, ET10, HS13, KP14]. **evolutionary** [Hai10, Vab14]. **evolving** [DE13, LM15]. **Exact** [Coh15]. **exactly** [TU18]. **exactness** [dVG16]. **examples** [AKR18]. **exceed** [CS10]. **exist** [SR11]. **Existence** [FMP16, HM14, Mü10]. **exotic** [XW10]. **expansion** [FA14b, IL11, NRV15]. **expansions** [Bay11, BJM17, Fuk12, KZ18, LS10b, RGNS18, Sid11, Sid12, WLZ17]. **experimental** [NS13, RR13]. **experiments** [CHR15]. **Explicit** [BBR12, BGG<sup>+</sup>17, CFO<sup>+</sup>15, GM16a, GM16b, GM18, Lep16, LRS16, MS13, NM12, Ram15, RS17b, WHV14, AH15b, Akr13, Akr16, Alk10, Alk11, AZ18, BGP14, DZBK16, GGH15, HS13, Kön17, Ram16, SZ18]. **Exploring** [FH16]. **exponent** [AK12, AJ14, WW10]. **Exponential** [DLPW11, HJW18, BFS18, BH16a, HH13, JLQZ18, XWZ13, ZZ14]. **exponential-type** [BFS18]. **exponentials** [KT10, TK12, XY13]. **extended** [BBC14, Chu12, DPR14]. **Extension** [HJHM15, AGS16, CM14, DGS12, DL15, FJS16, HZ13, Kle13, LZ13, NP12]. **extensions** [CDFS13, CQS14, DS14, GRT04, GRT15, LPD13, MS14, PR15, RSTV10]. **exterior** [AL17b]. **external** [BJKM11]. **extra** [Chu12]. **extrapolated** [Ing13]. **extrapolation** [Sid10]. **extrapolative** [KT18]. **extrema** [WHV14]. **extremal** [HM14, NP14]. **Extreme** [MFRV18, SX16]. **extremely** [Ye18].

**F** [Coh12, Szm13]. **factor** [BD11, CSV12, DEJ14, LN11, LN14]. **factored** [Cha18, LLP16]. **factoring** [IKRS12, Zra10b]. **Factorization** [Cos10, BOP17, CH14, Hia16b, Hit17, Hit18, Wel17, dHAL11]. **factorizations** [BL12]. **Factors** [BR98, BR05, BR11, OR14]. **Faltings** [GMRL18]. **Families** [JKL11a, JKL11b, Jeo16, GRT04, GRT15]. **family** [Kle13, LK12, SVVR14, Zie10a]. **Fast** [AL17a, BFZ16, BCPR14, CHH18, DY12, Dup11, Gav11, HMS11, JX14, Kus18, LFS15, MZ16, Pan17, TWO18, XW10, BO15, CPPT10, DOZ13, Fuk11, HY15, JLH13, Joh15, LMS11, PPTZ13, YMO13]. **Faster** [CH14, Har11, Hit18]. **FD** [MDK13]. **FD-method** [MDK13]. **Fekete** [BCL<sup>+</sup>11]. **FEM** [BGGG17, COT17, CGS15, MSS11, Mus18]. **Feng** [DFGSL13]. **Fermat** [BR05, BD10a, BR98, BR11, CD17, DF14, LP18b]. **Fermat-type** [BD10a, DF14]. **fewest** [LZ18]. **FFT** [SH11]. **Field** [Bar15a, BBT15, CS18, COS14, DGP10, Fon11, Kru16, PV15, Sch10, Tre12]. **fields** [AK12, ABBR17, Bia14, BCCW16, BKS15, BC15, BCNS12, BS15b, Bru13, Cer11, CIL15, Cha18, Coh15, DLRNS18, DS14, FLM14, GP17, GJLR18, GM13b, HZ14, HZ13, JKL11a, JKL11b, Jeo16, JW12, KKP10, KK10, Kuc11, Lez14, LM17, LOX12, Lou11, Mil15, Mor13, MJ16, OWZD18, PR15, RGNS18, Rob15, RJS12, Sut12, SwaAbLCW11, Tho10, VJS14, Xia18]. **fifteen** [KKP10]. **figure** [MSM14]. **filter** [CS15a, HZ13, Han15]. **filtering** [GÖS18]. **filters** [BK12]. **find** [TCH12]. **finding** [BLS13, BKS15, CZ10, Kus18, Yao13]. **Finite** [AA11, APR15, AA14, AL17b, BGN17, BJKM11, Boo18, BySZ12, CG16, CWX16, EGHL12, FHN17, Hir13, LLX11, SV14, Abd12, AV14, ALS17a, AGS16, ABHV11, AD16, AKPZ15, ABBR17, BP10, BC13a, BS18, Bar10, BCFG17, BCG16, BJM17, BHW13, BG11, BD15, BKS15, BKN15, BPT10, BCPR14, Bru13, Bur17, BHL18, BH18, CY18, CPV14, Cao15, CR11a, CD15, CT12, CWD14, CXZ15, CLWW16, CW17, CSO13, CS13a, CR16, CGH10, CD16, CL10, CG11, DKS15, DGS11, DLSW12, DS14, DJTZ13, DT11, Dua14, DRS11, DE13, ETX11, EFP10, ES16, EGHL10, FN11, FKS12, GLL12, GM14, GM17, GOS11, GRBT16, Gon13, Gud10, GZZ17, GL12, GSS16, GO18, GK11, HH13, HZ17, HFC18, HW18, HZ15, HL16, JdRV14, JJK<sup>+</sup>15, JLTZ17, KHX14, Kop14, Kre12, Kry13, LP17a, LSXZ12]. **finite** [LHY15, LS17, Li18, LOX12, LMNN18, MS10, MS12, NM17, NPPY12, OS16a, Pet14, PR15, RGB14, RGNS18, Sut11b, Sut12, SwaAbLCW11, VJS14, Voh10, WX13, WY14, WNK18, WW18, Xia18, XZ15, Zha11a, ZHX11, ZCS<sup>+</sup>12, ZD14]. **finite-difference** [Kry13]. **finite-precision** [BCPR14]. **First** [CS13a, BCCW16, CPPT10, ES16, JD14, KMPW10, Kop14, PT16, RW18]. **first-order** [ES16, Kop14]. **Fischer** [PKLC14]. **Fisher's** [Hak13]. **five** [Tao14]. **fixed** [BST11]. **fixed-point** [BST11]. **Floater** [Kle13]. **floating** [JKLM17, JR18]. **floating-point** [JKLM17, JR18]. **flow** [ALS17b, CPV14, CGN<sup>+</sup>11, CS13c, DKS15, DL15, MO13]. **flows** [BH18, CS18, CS14, LPSH11, MZ16]. **fluid** [BP10, HKK13, MO13]. **fluidic** [BGN17]. **Flux** [CZ11, BCG16, Xu14b, XZ15]. **flux-splitting** [BCG16]. **fluxes** [MSW16]. **FMA** [JKLM17]. **folded** [NM17]. **foliations** [CJ15]. **following** [GKL<sup>+</sup>17, vdBLM10]. **form** [BGGG17, CHH18, FHN17, Kir12, KC11a, KZ18, PZ11, WW18]. **forming** [CMS11]. **forms** [AA14, CR16, Chr18, Dem14, Dum17, FK18b, GP17, GV11, JST14, Kir12, Lep16, LOX14, Mez11, Nel15, PY15, Rau16, RJS12, RSS12, RTwaabRS16, ZY15]. **formula** [BSO12, BMPR16, KC11b, KtR10, dR11]. **formulae** [AK16, BC13b, Chu11, Chu12, Not15, RS17b, Spa13, Tru15]. **Formulas** [Coh12, MOS66, RTwaabRS16, Hia16a, LP17c, MS14, MS16, Peh11, Spa17, Szm13]. **formulation** [CZ12, CC12b, EFP10, GGG11, JLPR15, Voh10]. **formulation-based** [Voh10]. **formulations** [BDS18]. **forth** [HLL16]. **four** [KT10, MNZ13]. **Fourier** [Adc11, AH15a, BY12, Bat15, Bay11, BH16b, CNV14, DY12, DJ12a, FA14b, JX14, Kve10, Lan11, MS14]. **fourth** [GV15, MR10, ZHX11]. **fourth-order** [MR10]. **Fowler** [BC14]. **fractal** [Dro10, DJ12a, Jor12]. **fraction** [LP18a, MRW10]. **fractional** [ABBM18, BP15, CSW16, CNOS16, Chr18, CJ13, EHR18, JLPR15, LLX11, Mus18, TZD15, ZZJZ18]. **fractions** [GMZ11, GM13b, Jag12]. **frame** [ZDL13]. **framelet** [Han15]. **framelets** [HJSZ18].

**framework** [ASSW16, FM18, GVW16, KT18].  
**Fredholm** [Bor10, DM14]. **free** [Bar16, BHSP11, BJ11, BCNS12, GN14, LRS12, Naz10, SW11, Ste11, Yen11, Zha11a, Ste11].  
**Free-slip** [Ste11]. **Freedden** [CS13b]. **freeness** [MP17]. **frequency** [GSV17]. **Freud** [Gau17].  
**Frey** [BB17]. **Friedrichs** [DT11, Sog15, Sog16].  
**friendly** [ULS12]. **Frobenius** [RPR12]. **front** [BCS16, CJLW18, Mon10b]. **Frozen** [LZ18, Jin10].  
**Fuchsian** [FJK11]. **full** [CFLTL14]. **fully** [BC16, BGNyS11, CS18, CLWW16, DJ13, GOS11, KP14].  
**fully-mixed** [GOS11]. **Function** [BzCS12, LSW14, Alk10, Alk11, BSO12, BF15, BT15, BB12, CFJ12, CWX16, CM14, CC13b, Cof14, CW15, Doo15, FA14a, FLM14, GKS17a, Hia11, HO12, Hur18, Ish17, KK10, KM16, Kuz15, Kve10, LP18a, LM13, NJZ17, NRV15, PKLC14, PY14, Pro17, Ram15, RJS12, RY15, Tru12, dR11, Bar15a].  
**functional** [DE10, LM13, NRV15, Yao13].  
**functionals** [dHAL11]. **Functions** [FG17, Szm13, AH15a, ADL11, Bar15b, BY12, Bat15, BJM17, BKM18, BMPR16, BS15b, BL14, BF18, Büt15, Büt16, CSW16, Chè13, CDTW18, Coh12, DT11, Dup11, Fre18, GM16b, GM16c, HNUW14, KL10, KL13, KPW14, KSWW10, KSW17, Lan11, LP17a, LFS15, Lou11, LA14, MOS66, Mez11, MNPW10, MF11, NH11, Not15, Ram15, RTwaabRS16, ST18a, Sid11, SZW11, Tru15, Wan10a, Was14, YF15, CM13, Rob15, Gra11].  
**Fundamental** [BH13]. **Fundamentality** [BHM<sup>+</sup>11, BHM<sup>+</sup>12a]. **Further** [JLM13, Jin13].  
**Galerkin** [Abd12, AW11, AD13, AD16, BCS16, BCKX13, CGS18, CNV14, CZ16, CCQ17, CGP12, CMZ17, CCLX17, CW10, CNZ16, CD16, DE10, DT11, ES16, FW11, FX13, FKS12, FM18, GH18, GMSC<sup>+</sup>17, GHS10, GV15, GMP14, Git13, GP14, GSRM12, HMP13, HW18, HMS14, JXR12, JvSRV14, KM15, KSU16, KSX17, KG18, LL17, LNRW18, Liu15, MSW16, Mus13, NRW17, PS16, RS17a, SW10, TU18, WY14, WW18, Wil18, XZ10, YPP13, dDHZZ14]. **Galerkin-finite** [AD16].  
**Galois** [CFLTL14, Fen18, JW12, Kön17, LRS16, Mas18].  
**gaps** [OHP14]. **Garsia** [HP13]. **gas** [CGH<sup>+</sup>16].  
**Gauss** [BS16, CMZ17, Doo15, JR13, Jin10, Jin13, Not15, PS16, WLZ17]. **Gauss-compatible** [PS16].  
**Gaussian** [BI10, BD11, Cal13, KSW17, LLP16, LRT13, LZ18, Mon10a, Spa13, Spa17, ST18b].  
**Gegenbauer** [XWZ13]. **genera** [KN12]. **General** [CFS17, BDFL17, DL15, EGHL12, Fuk11, GT16, GN14, Jin13, LLS17b, Ngu16, DD17]. **Generalised** [GM13a]. **Generalization** [YF15, NH11].  
**Generalized** [AH15a, CSW16, AKLZ12, AKKL12, BR98, BR05, BR11, BCKX13, Cer11, CIL15, CMZ17, CD17, DFGSL13, DK10, Gal17, GI16, GOM11, KM15, KCL14, Mel18, Nak11, PKLC14, RGB14, Sid10, Spa17]. **Generalizing** [RSTV10].  
**generated** [BS15b, DFGSL13, HZ14, LS10c, Shp11].  
**generates** [MC12]. **Generating** [Cha18, LLP16, CFJ12]. **generation** [HK17].  
**Generators** [CM13, KK10, BJ11, GPOS14, GM18, HMS11, JJK<sup>+</sup>15, OS10]. **Genocchi** [Bay11]. **genus** [Cos10, CR15, Rau16, VJS14, Zie10b]. **Geometric** [BCL<sup>+</sup>11, BMP10, McN15]. **geometrically** [Bar16, GO18]. **Gerschgorin** [Nak11]. **giantstep** [Hit18]. **Gibbs** [ADL11, BKMW11]. **Ginzburg** [LZ17]. **given** [BMPR16, Coh15, DGP10, FLM14, FK18b].  
**Glimm** [CJLW18]. **Global** [vdBLM10, DS17, Fon11]. **GNFS** [BBKZ16].  
**Godunov** [BC16]. **Godunov-type** [BC16].  
**Goldbach** [OHP14]. **Good** [Sør16, AKR18].  
**Gordon** [BS18, BFS18, BJKM11]. **governed** [ET10]. **Graded** [AN15, DLSW12, Li17].  
**Gradient** [CD18, Cao15, DL13, LPSH11].  
**Gradient-based** [CD18]. **gradings** [La 15].  
**graining** [KPRBT14]. **Gram** [BB12]. **Gramain** [MNZ13]. **Gramian** [FJS16]. **graph** [Boo18, Cin15]. **graphs** [DKS15, HÖ14, MC13, MMN11]. **Grassmannian** [LMT10]. **greater** [OR12, Tao14]. **Greedy** [MC12, MZ16, GS10]. **GRH** [GM16a, GM16b, GM16c, IKRS12, Pla16]. **grid** [HC11, HC15]. **grids** [BGM15, DGS11, HZ15, JX14, Zha11a]. **Gröbner** [BD11, GVW16, La 15]. **Gross** [BC13a]. **ground** [PPTZ13]. **group** [Bia14, BJ11, BJK11, Fen18, GM18, JdRV14, JJK<sup>+</sup>15, LRS16, MJ16]. **groups** [AK12, BJK11, Bru13, Cor10, DS18, DFH18, Die11, FJK11, HL16, JdRV14, JJK<sup>+</sup>15, JKdR16, JW12,

JST14, Kön17, LPSH11, MP17, MNU15, NV17, Pag15, Pap15, RR13, ST18a, Sut11b, dGO14]. **growth** [CMS11, HP10, JLQZ18, OS10, QzSZ15]. **Guaranteed** [CG14].

**Hadamard** [AHS17]. **Half** [LLS17b]. **Half-space** [LLS17b]. **Hall** [AKR18]. **halting** [FK18b]. **Halton** [HPS17]. **Hamilton** [BFZ10, CMQ13]. **Hamiltonian** [BFZ16, COS14, HÖ14, MO13]. **Hankel** [Fre18, TWO18]. **harmonic** [Bar10, BG11, CS10, HMP13, LP17a, LCQ17, LGY15, ZCS<sup>+</sup>12]. **Harnack** [LP17a]. **hashing** [FFS<sup>+</sup>13]. **Hasse** [BH16a]. **Hasse-type** [BH16a]. **having** [FR15a]. **HDG** [CCS12, CC12a, CC14, CCD16, CGS10, CGN<sup>+</sup>11, CC12b, CQS12, CS13c, CS14, CQS14, CQB14, CFS17, GLNP15, LCQ17, QSS18]. **heat** [AL16, BDFL17, CC12a]. **Hecke** [GP17, GV11]. **Heegner** [BÇS15, DDLR15]. **height** [DK15, FS12, GMRL18, Kru16, Tho10]. **heights** [BÇS15, Mü14, Wel17]. **Hele** [CLWW16]. **Hellegouarch** [BB17]. **Helmholtz** [BCLZ14, BCFG17, FW11, FX13, GSV17, MS10, Pet17]. **Hermite** [BKMW11, CIL15, FGMS12]. **Hermitian** [DP15, Gre15, KKP10, SX16]. **Hessian** [GZZ17]. **Heston** [Alf10]. **heterogeneous** [Abd12, AV14, BCFG17]. **Heuristic** [LM13]. **hierarchical** [BBB16, KZ11]. **High** [Alf10, dR11, ABBM18, BCCM13, CDTW18, CR16, COQ10, CGH10, CM14, DS14, GGH15, GSV17, HJSZ18, LMS11, LFS15, LCQ17, RS17a, SW11, Sør16, VJS14, Wen13, Xu14b, XY13, DD17]. **high-contrast** [CGH10]. **high-dimensional** [CDTW18, RS17a]. **high-frequency** [GSV17]. **high-genus** [VJS14]. **high-order** [BCCM13, SW11, Wen13, DD17]. **Higher** [Fis17, CQT11, CXZ15, FL18, GM14, GM17, Gra11, GM15, KN12]. **higher-dimensional** [Gra11]. **higher-order** [CXZ15, FL18]. **highest** [CH13]. **highly** [CMTZ16, IL11, MX18, NRW17, XW10]. **highly-oscillatory** [CMTZ16]. **Hilbert** [CC13a, GP17, Gne12, GV11, Olv11, Sut11a, Tab17, Yao13]. **Hill** [CD10]. **Hilliard** [CLWW16, CS18]. **Hirota's** [BHH<sup>+</sup>12]. **Hodge** [BCNS12, LW18a, LZ17]. **hodograph** [JKK<sup>+</sup>10]. **homogenization** [AV14]. **homotopies** [HSW11]. **Homotopy**

[RR13, BCKM18, DYY14, LP17b]. **hopping** [LZ18]. **Hormann** [Kle13]. **Huber** [FJK11]. **Hurwitz** [Kön17, Tab17]. **hybrid** [DYY14, ITT12, PVV17, DD17]. **hybrid-mixed** [PVV17]. **Hybridizable** [CD16, CCQ17, CNZ16, GH18, Wil18]. **hydrodynamic** [JLH13]. **hydrostatic** [ABBSM16]. **hyperbolic** [AW11, BCG16, BLT13, BCL15, BDFL17, CG11, DHMG11, GI16, JKdR16, JgLW13, LP17b, MSW16, MS12, Sfa13, Xu14b]. **hypercircles** [Tab17]. **hypercube** [Ste11]. **hyperelliptic** [BBM17, FFS<sup>+</sup>13, LRS16, VJS14]. **hypergeometric** [Doo15, SZW11]. **hypersurfaces** [KT18]. **hypo-coercivity** [PZ17]. **hypothesis** [Dus16].

**IBVPs** [CNPT10]. **ideal** [AK12, AO14, Bia14, GM16b, PS14]. **ideals** [Cha18, GM16a, La 15, MN14]. **identification** [CZ11, JL12]. **Igusa** [BL14, Str14b]. **II** [Ble12, HM14, AA11, AKKL12, BJ11, CC14, EGHL10, FM12, LPD13, Spa17]. **III** [AGM10, CFO<sup>+</sup>15, DGS12, FR15a]. **ill** [CSS15, Ye18]. **ill-conditioned** [Ye18]. **ill-posed** [CSS15]. **image** [HYZ14, ZDL13]. **imaginary** [AK12, BC15, CIL15, DGP10, DHJ17, KKP10, Kuc11, MJ16]. **imaging** [AKLZ12, AKKL12]. **IMEX** [DHMG11]. **immersed** [Li15b]. **immiscible** [CPV14]. **impact** [SD11]. **impedance** [BR18]. **Implicit** [Akr13, BEG16, Akr16, BHM12b, CCOV14, HS13, MF11]. **implicit-explicit** [HS13]. **Improved** [CMTZ16, LP18b, StR14a, AGHS14, CSO13, Hur18, SGD11, Tru12, Tru15, UP14]. **Improvements** [Tru11]. **inclusion** [ABF<sup>+</sup>10, AKLZ12, AKKL12]. **incompatible** [CQT11]. **incompressible** [BP10, BH18, CS18, CPV14, CCQ17, DE10, DL15, HKK13, LS18]. **increasing** [JvSRV14]. **independent** [BS15b]. **index** [BJV18, DKMW13, ITT12, KMPW10]. **Indifferentiable** [FFS<sup>+</sup>13]. **Inequalities** [ADGR12, HA11, KMF17]. **inequality** [ABBSM16, DT11, LP17a]. **inert** [Tre12]. **inertial** [CJ15]. **inexact** [BKM18, KM16, KM16]. **Inf** [GO18, BTDG13, BKN15]. **Inf-sup** [GO18, BKN15]. **Infinite** [Gne12, BMM18, CZ14a, NH11, SVVR14].

**Infinite-dimensional** [Gne12]. **infinitely** [GKS17a, KPW14]. **infrastructure** [Fon11]. **Inhomogeneous** [HLZ15]. **initial** [CQT11, CG11, MS12, Spi17]. **initial-boundary** [CG11]. **inner** [Dem14]. **inputs** [KCL14, LP18b]. **instationary** [Ste11]. **integer** [CDS10, Chu12, CLB18, CH14, Gre15, Hia16b, Hit18, Riv16]. **integers** [Cal13, LLP16, McK11, McN15, PZ11, Sch10, ZC13]. **integrability** [HJW18, SZ18]. **Integral** [COQ10, ALS17b, AFF<sup>+</sup>17, BBM17, BSO12, BJK11, CM12, CT10, DM14, DY12, FA14a, Fuk11, GL15, JdRV14, JJK<sup>+</sup>15, Kuz15, LP17c, OMS15, QS16, ZqCt16]. **integrals** [BBC10, BCCW16, DDLR15, FA14b, Fre18, Fuk12, IL11, Lai16, MX18, Sid12, WLZ17, XW10]. **integrands** [He18]. **integrate** [BBD<sup>+</sup>11]. **integration** [BSSW14, DLPW11, Gne12, GKS13, GKS17b, HNUW14, HWZ14, KPW14, KT18, KSW17, LFS15, XW10]. **integrator** [MMV17]. **integrators** [BFS18, BFZ16, COQ10]. **integro** [Mus13, RS16, qWIGjY17, Xu14a]. **integro-differential** [Mus13, RS16, qWIGjY17, Xu14a]. **interactions** [JLH13, KPRBT14]. **interface** [ABF<sup>+</sup>10, CHZ17, CGS18, CGH10, CGH<sup>+</sup>16, GSS16, Li15b, Pet14]. **interfaces** [MSS11]. **interfacial** [ALS17b]. **Interior** [Kry13, Sid11, HS15]. **interpolants** [Kle13]. **interpolation** [AADL11, BNS15, CSO13, FGMS12, Hoa16, JKK<sup>+</sup>10, Li18, RS17b, Sty14, SH11, WHV14, XWZ13, dVG16]. **interpolations** [ByTC13]. **interpolatory** [HA11, LS10c]. **intersection** [BGH14, KS15, Müll14]. **interval** [FR15b, GPR13, Gav10a, KC15]. **intervals** [DFGSL13, NH11]. **intrinsic** [BGH14]. **Introduction** [Gav10a, Naz10, Kem10]. **invariant** [AJ14]. **invariants** [BOP17, BH13, Cin15, HL16, Kon14]. **Inverse** [HJHM15, AFF<sup>+</sup>17, BCLZ14, BMBO13, CSS15, DFR12, HNRW18, Jin10, MZ16, Olv11, WKN13, ZZWZ15]. **inverses** [FMP16, LWC113, Ye18]. **inversion** [BC13b]. **investigation** [NS13]. **inviscid** [ALS17a]. **involving** [CZ14a, JLPR15, Ram15, Ula14]. **irrational** [NS13]. **Irreducibility** [Shi13]. **irreducible** [FM12, LOX12]. **Irregular** [BH11, HHO17, Cal16, NT16]. **isentropic** [EGHL10]. **isogenies** [CR15, MS16]. **isogeny** [BLS12, MS13, ULS12]. **isogeometric** [DGM<sup>+</sup>16, GMSC<sup>+</sup>17]. **Isolating** [Pla17]. **isometric** [SX14]. **issues** [DHMG11]. **iterated** [DDL15]. **iteration** [DZ16]. **iterations** [Dup11]. **iterative** [CGHW14, LGY15, Yan17]. **iteratively** [Jin13]. **IV** [BCL15]. **Iwasawa** [SW13].

**Jacobi** [BFZ10, ADGR12, ByTC13, CT10, CSW16, CMQ13, CC13b, LS10a, Rau16, qWIGjY17]. **Jacobi-weighted** [LS10a]. **Jacobian** [VJS14]. **Jacobians** [CR15]. **Jacobi's** [Lab18]. **Jacobsthal** [CW15, HS12]. **Jaeger** [Fre18]. **Janko** [BJK11]. **Jin** [CJLW18]. **jump** [dDHZZ14]. **justification** [LZ18].

**Kaczmarz** [LW16]. **Kahan** [JLM13]. **KAM** [BFZ16]. **Katsurada** [KPSY18]. **Kazhdan** [GH15]. **KdV** [HKRT11, ZZJZ18]. **Keller** [LWZ18, HL17, LY17]. **kernel** [CT10, HNRW18, LNRW18, NRW17, RW18, ZX16]. **kernel-based** [RW18]. **kernels** [BzCS12, KSW17, Mus13, qWIGjY17]. **kind** [Fuk11, KMPW10]. **Kinetic** [ABBSM16, BGM15, LLS17b]. **Klein** [BS18, BFS18, BJKM11]. **Kleinian** [Pag15]. **Kloosterman** [AG14]. **Knapsack** [MNU15]. **Koblitz** [KZ18]. **Kolmogorov** [BC17, PZ17]. **Korobov** [DLPW11, KPW14]. **Korteweg** [BCKX13, GMP14, KM15]. **KPP** [Hak13]. **KPP-theory** [Hak13]. **Kronecker** [FLM14]. **Kronrod** [MS14]. **Krylov** [BHM12b]. **Kummer** [NM12]. **Kurepa's** [AT16]. **Kutta** [AZ18, BGG<sup>+</sup>17, COS14, COQ10, ET10, GGH15, HS11].

**L.** [Sza11]. **lacunary** [Ler12, Mel16]. **Lagrange** [Gav10b, BG11, DHYZ17, MN10, TU18]. **Lagrange-type** [MN10]. **Lagrangian** [DJ13, HYZ14, KSX17, YY13]. **Laguerre** [ByTC13]. **laminated** [DRS11]. **Lanczos** [Li10]. **Landau** [FJK<sup>+</sup>15, LZ17, Mor11]. **Langevin** [LRS12]. **Laplace** [BP12b, LW18a, Li15a, MMN11]. **Laplace-type** [Li15a]. **Laplacian** [ABBM18, Cin15]. **Large** [IPZ15, Bör18, CNPT10, DGKS16, Dus16, FW11, FX13, SX16]. **large-scale**

[DGKS16, SX16]. **Large-time** [IPZ15]. **largest** [LL15, LN11, LN14]. **Late** [BLT13]. **Late-time** [BLT13]. **Late-time/stiff-relaxation** [BLT13]. **Latin** [HKÖ11]. **Lattice** [SS15, CSV12, CMSC10, HMS11, KPRBT14, OS13, Sør16]. **Lattices** [BEF16, BC15, KKP10, NP14]. **Lavrentiev** [PMH18]. **law** [Hir13, LWCI13]. **laws** [BCG16, BCL15, CZ11, CJ13, CMR10, CJLW18, CPSV18b, Dro10, GI16, HMS14, IPZ15, KSX17, LZ16, MS12, Sfa13, Xu14b, YDk12]. **Lax** [Sog15, Sog16]. **layer** [FMP16, ZZ14]. **layers** [BLW10, BJV18]. **LDG** [ZZ14]. **Least** [LPSH11, BHW13, BCL<sup>+</sup>11, LLS15, LLS17a, NJZ17, TV10, Tre12]. **Least-squares** [LPSH11]. **Legendre** [Sid11, WX12, qWIGjY17]. **Leray** [DD17]. **Lerch** [BSO12, NRV15]. **level** [ABHV11, FG17, KT18, LX15, MS12]. **Levenberg** [Fan12, Fan14]. **Levin's** [ÁB17]. **Lévy** [KHOLT14]. **Li** [BMP10, KC11a]. **liars** [BS15a]. **Lie** [LPSH11]. **lifting** [BDM10]. **like** [BEG16, Chu11, CLR13, Kir10]. **limit** [BS18, CY18]. **limiters** [MP12, Xu14b]. **limiting** [HLL16]. **Lindelöf** [NRV15]. **line** [CLRR12, CS15a, DM14, HO12, MN10, Tru12, Wel17]. **Linear** [BT15, CWD14, GT16, Kop14, AW11, AZ18, AKPZ15, BGP14, BNDHV15, CHZ17, Cao15, CZ16, CCD16, CHH18, CGP12, CMZ17, CDDM18, DJ13, DZ16, DI15, DL15, DJTZ13, ES16, FHN17, Fen18, GGH15, Gud10, HK18a, HMS11, HP12, KP14, Lab18, Lep16, LP17a, LW18b, MSW16, QSS18, Sid10, SW10, SZ18, UP14, WKN13, Xu14a, YDk12, ZY14]. **linearization** [DVG15]. **linearizations** [NN16]. **Linearized** [YY13, ZZJZ18]. **linearly** [Ing13]. **lines** [BB12, CCOV14]. **linesearch** [GOP16]. **linkages** [GKL<sup>+</sup>17]. **Lions** [DD17]. **Liouville** [BHS15, MDK13]. **Lipschitz** [AA11, HNRW18, SS15, Yao13]. **liquid** [GGG11]. **list** [Büt15]. **Littlewood** [DJS18]. **LLL** [CSV12]. **Local** [AFF<sup>+</sup>17, CMQ13, DGS11, DL13, FW14, FS12, LW18a, Nar14, dVG16, CZ10, CMZ17, DM10, FX13, GHS10, GM10, LNRW18, LW12, LW15, Pet17, CZ16]. **Localization** [GG17, MP14]. **Localized** [AH17, Lin17, HNRW18, LNRW18, NRW17]. **locally** [AGS16, AG16, Yao13]. **location** [LM18]. **log** [CC13b, HPS17]. **log-concavity** [CC13b]. **log-normal** [HPS17]. **logarithm** [CWX16, Die11, KCL14]. **logarithms** [GPR13, Sut11b, VJS14]. **lognormal** [KSS<sup>+</sup>17]. **long** [KPRBT14, RR16]. **long-range** [KPRBT14]. **Lotka** [BHH<sup>+</sup>12]. **low** [ÁB17, BC17, ETX11, Sch10, Sør16]. **low-order** [ETX11]. **low-rank** [BC17]. **Lower** [LXX14, PM11, AL17b, CG14, CDTW18, Lep16, SGD11, Tho10]. **lower-order** [AL17b]. **lumped** [CT12]. **Lusztig** [GH15]. **Lyapunov** [AJ14].

**M.** [ÁB17]. **Maass** [JST14, Mez11]. **MAC** [GHLM18]. **Maclaurin** [Sid12]. **made** [CGG10]. **magic** [BvH11]. **magnetohydrodynamics** [BP10]. **Magnus** [Coh12, Szm13]. **Mahler** [CDDM18, FR15a, Kim17]. **maintaining** [YDk12]. **manifold** [DS17]. **manifolds** [CJ15]. **many** [BEF16, GH18, GKS17a, KPW14]. **many-subdomain** [GH18]. **map** [Ang16, Tui16]. **mapping** [ZGFD14]. **maps** [AJ14, Bar10, KN12, LGY15, Sij12, SV12]. **mark** [Alk10, Alk11]. **marks** [NP12]. **Marquardt** [Fan12, Fan14]. **Maruyama** [NT16]. **mass** [CT12, GSRM12]. **Masser** [MNZ13]. **massively** [GMS12]. **matched** [BLW10, BJV18]. **matchings** [MC13]. **Mathematical** [LZ17, Szm13, BL17, Coh12, LZ18, MOS66]. **Mathias** [BMP10]. **matrices** [AHS17, BMM18, DP15, DGM<sup>+</sup>16, DOZ13, FMP16, GMSC<sup>+</sup>17, Gre15, JR13, LL15, NP17, Pan17, TWO18, XY13, Ye18]. **Matricial** [BK12]. **matrix** [BBB16, BMP10, Cin15, DD10, GM15, HZ13, HO12, LPSH11, LK12, Mel18, Riv16, dHAL11, FMP16]. **Matsubara** [Esp10]. **max** [CZ10]. **Maximal** [LS17, ALL17, CFLTL14, Hei12]. **Maximum** [MP12, Xu14b]. **Maxwell** [BG11, BCNS12, HMP13, LCQ17, PS16, ZCS<sup>+</sup>12]. **may** [Kop14]. **Mazur** [Che16]. **McMillan** [BJ15]. **MDP** [GT16]. **mean** [BMP10]. **means** [BAFG18]. **measure** [AJ14, CGH<sup>+</sup>16, FR15a, Gon13, MFRV18]. **measure-preserving** [AJ14]. **measurements** [ABF<sup>+</sup>10, AKKL12]. **measures** [DJ12a, DJ12b, Jor12]. **media** [BCFG17, BJV18].

**merit** [MSM14, PKLC14]. **Mersenne** [BI10, GM13a]. **Mertens** [Hur18, StR14a]. **Mesh** [ZD14, AN15, FKS12, HK17, HZ17, HK18b, MO13, NKK17, Sfa13]. **meshes** [AGS16, AA14, BCL<sup>+</sup>11, BS15b, BDFL17, Cao15, CC14, CWD14, CW17, CSO13, DLSW12, DL15, EGHL12, GN14, HFC18, KHx14, Li17, Mou14, DD17]. **meshless** [LNRW18]. **metamaterials** [BJV18]. **Method** [CCOV14, Abd12, AV14, AH17, ABHV11, ALS17b, AD16, BLW10, BS18, ByH10, BC16, BHW13, BAS16, BLS13, BKN15, BHH<sup>+</sup>12, BCKM18, BMBO13, Bur17, BHL18, Bur10, Büt15, Büt18, CY18, Cao15, CR11a, COS14, CCQ17, CT12, CZ10, CS15a, CL16, CXZ16, CMZ17, CD18, CHR15, CGH10, CJ13, CZ14b, CL10, CNPT10, CB16, CD10, DKS15, DGS11, DP15, DYY14, Dro10, DJTZ13, Dua14, DRS11, DE13, ELSW18, ES16, Fan12, Fan14, FKBJ17, GLS11, GRBT16, Git13, GÖS18, GQ14, GLNP15, Gra11, HH13, HYZ14, HPS17, HFC18, Hia11, Hit18, HR10, HC11, HC15, HLL16, HL17, HK18b, JgLW13, KK11, KSU16, KSX17, KP12, Kre12, LL17, LNRW18, Li10, LSXZ12, Li15b, Li18, LMNN18, Liu15, LY17, LW18b, LWZ18, LCQ17, MDK13, MYS12, MO13, Mus13, NRW17, NM17, OS16a]. **method** [Ort11, DD17, QSS18, RW18, RS10, SW11, Seg17, SL17, Tru11, WY14, qWIGjY17, WW18, Wen13, Wil18, XZ10, Xu14a, XZ15, YMO13, Yao13, ZHX11, ZqCt16, ZZ14, Gav11]. **methods** [ABBM18, Akr13, Akr16, AZ18, AC18, Arg11, AHHR15, BC13a, BCCM13, BGP14, BD15, BC14, BGNyS11, BySZ12, BGG<sup>+</sup>17, BHM12b, BTDG13, BH18, CZ12, CGS18, CNV14, CGHW14, CZ16, CD15, CCS12, CC12a, CMTZ16, CT10, CLAT12, CC14, CXZ15, CNOS16, CCD16, CCLX17, COQ10, CGS10, CGN<sup>+</sup>11, CC12b, CQS12, CS13c, CS14, CQS14, CQB14, CNZ16, CD16, CFS17, DPR14, DLSW12, DE10, DGM<sup>+</sup>16, DGKS16, DT11, ET10, FN11, FW11, FX13, FHN17, FNO12, FKS12, FM18, GX17, GH18, GMSC<sup>+</sup>17, GHS10, GOS11, GMP14, GL15, GGH15, Gud10, GP14, GZZ17, HK18a, Hai10, HMP13, Hoa16, HSW10, HS11, Jin10, Jin13, JLTZ17, KM15, KMPW10, KPY18, KG18, KSS<sup>+</sup>17, LK12, MSW16, MS12, MPT18, OMS15, PVV17, SW10, TCH12, TY17, Voh10, WMxY17, WNK18, YPP13, YY13, ZCS<sup>+</sup>12].

**methods** [BCKX13]. **metric** [Nak11]. **metrical** [Jag12]. **metrized** [Cin15]. **microfiche** [BR98]. **Midpoint** [MRW10]. **million** [BH11]. **mimetic** [AdVV13]. **min** [CZ10]. **min-max-orthogonal** [CZ10]. **Mindlin** [Dua14, DRS11]. **Minimal** [CW17, Err14, WX13, BP12a, COS14, HZ15, MMV17]. **minimal-variable** [MMV17]. **minimality** [KZ18]. **minimax** [Yao13]. **minimization** [BKM18, CD15, HYZ14, Ish17, KM16, LM13, YMO13, YY13, ZDL13]. **minimizing** [FGMS12]. **minimum** [CLTZ12, GMRL18, Lez14]. **Minkowski** [Alk11, Alk10]. **Minkowskian** [KMSwaAbMDS12]. **Mixed** [CZ12, GGG11, AGS16, ABHV11, BGGG17, COT17, CR11a, CHH18, CD16, DiP18, DYY14, EFP10, GOS11, GRBT16, KK11, LZ18, MSS11, MZ10, NM17, PVV17, SSW16, Voh10, WY14]. **mixed-FEM** [COT17]. **MNT** [ULS12]. **Möbius** [BC13b]. **modal** [ABF<sup>+</sup>10, GÖS18]. **model** [Bar15b, BER17, BD11, CS18, CGH<sup>+</sup>16, DZBK16, GGG11, GSRM12, JLQZ18, LM13, MZ10, QzSZ15]. **modeling** [FN11]. **modelling** [GM10]. **models** [Alf10, Baa10, BGM15, DJTZ13, HO12, MS16]. **modes** [DRS11]. **modified** [Adc11, Fan12, Fan14, Ten10, WLZ17]. **Modular** [BLS12, Baa10, BMS16, Dem14, Dup11, FG17, GP17, GV11, KK10, Kim17, LP18a, Mas18, Nel15, RSS12, Wut18, ZY15]. **modularity** [DGP10]. **module** [IKMF17, PV15]. **modules** [BJ11, Yen11]. **moduli** [Err14]. **modulo** [GG14, MNW10, ZY15, Zra10b]. **modulus** [Fre18]. **Moebius** [Ram15]. **MOLS** [EW16]. **moment** [CS13a, RY15]. **moments** [Alk10, Alk11, HJSZ18, HO12]. **momentum** [BC13a]. **Monge** [BCM16, BGNyS11]. **monoids** [BOP17]. **monomial** [KTA18, SV12]. **Monotone** [BCM16, ET10, HR10, LA14, Ten10]. **monotonic** [KL10]. **Monotonicity** [Gau17, KL13]. **Monte** [BSSW14, AH14, HPS17, He18, KSS<sup>+</sup>17, MSM14, MS12]. **moonshine** [JST14]. **Mordell** [BBC14, BB16, Kuz15]. **Mori** [HKW17]. **morphisms** [Hut15]. **Moser** [GMZ11]. **most** [Tao14]. **motion** [GKL<sup>+</sup>17]. **motions** [FGMS12]. **moving** [HK18b]. **Mullen** [COT15]. **multi** [BP10, BCL15, CGHW14, CMR10, LZ15, LX15, MS12].

**multi-component** [BCL15]. **multi-dimensional** [BCL15, CMR10, LZ15]. **multi-fluid** [BP10]. **multi-level** [LX15, MS12]. **multi-physics** [CGHW14]. **Multidimensional** [LSW14, CG11, JX14]. **multiframelets** [Han10]. **Multigrid** [CGO10, Ols12, BP12b, Li15a]. **Multilevel** [CNOS16, DFR12, KSS<sup>+</sup>17, LSXZ12, dDHZZ14]. **multimodular** [Har10]. **Multiple** [DLZ11, Abd12, CZ10, JXR12, MS14, Zha15]. **multiple-dimensions** [JXR12]. **multiples** [DJŠ18]. **multiplication** [ASSW16, ABBR17, JKLM17, PR15]. **multiplicative** [BCG16]. **multiplier** [DHYZ17, Gav10b]. **multipliers** [AK16]. **multipole** [Gav11]. **multiresolution** [CDHM12, HMS14]. **multiscale** [Abd12, AV14, CGH10, IW13, KPY18, MP14, PVV17]. **multistatic** [AKKL12]. **Multistep** [BHH<sup>+</sup>12, Akr13, Akr16, BGG<sup>+</sup>17, HK18a]. **Multivariate** [KPW14, KSW17, Chè13, DLPW11, FA14b, Han10, KSWW10]. **multiwavelets** [Han10]. **Mumford** [BER17, Has12].

**Naghdi** [NM17]. **Naor** [LSW14]. **narrow** [OS16a]. **narrow-band** [OS16a]. **Navier** [CZ12, COT17, CCQ17, CW10, DE10, GHLM18, GLS11, GMP14, GMS12, Ing13, LS18, TU18, Wil18]. **nearest** [MRW10]. **negative** [BJV18, XY13]. **nematic** [GGG11]. **nerve** [SS16]. **nets** [DK10]. **networks** [ZGFD14]. **Neumann** [DS18, MS10]. **newform** [LW12, LW15]. **Newman** [DJŠ18, SGD11]. **Newton** [Arg11, BAS16, BLS13, Dup11, HW18, Jin10, Jin13, Seg17]. **Newton-discontinuous-Galerkin** [HW18]. **NFS** [BL17]. **Nicolson** [AKPZ15, Ing13, RS16, Xu14a]. **ninth** [BD10b]. **Nitsche** [CHR15]. **NLS** [BFS18]. **No** [DHJ17, McN15, Wel17]. **node** [Hoa16]. **nodes** [CH13, MS14, SH11]. **Non** [KZ18, Yan17, AA11, AFF<sup>+</sup>17, BP12b, BGP14, CGHW14, CHR15, DJ13, DZBK16, DHJ17, FHN17, FG17, GM10, GKS17a, HFC18, HS15, LLS15, LLS17a, LNRW18, MZ10, Mü10, Mus13, Pla17, SZ18, WW18, XY13]. **non-adjacent** [KZ18]. **non-divergence** [FHN17, WW18]. **non-existence** [Mü10]. **non-explicit** [DZBK16]. **Non-iterative** [Yan17, CGHW14]. **non-linear** [BGP14, DJ13, SZ18]. **non-Lipschitz** [AA11]. **non-local** [AFF<sup>+</sup>17, GM10, LNRW18]. **Non-minimality** [KZ18]. **non-negative** [XY13]. **non-real** [DHJ17]. **non-residue** [LLS15, LLS17a]. **non-smooth** [GKS17a, Mus13]. **non-split** [FG17]. **non-stationary** [MZ10]. **non-symmetric** [CHR15, HS15]. **non-trivial** [Pla17]. **non-uniform** [HFC18]. **non-variational** [BP12b]. **noncollinear** [Kir10]. **Nonconforming** [CHZ17, Bur17, BH18, CGS15, CC14, LMNN18, ZHX11]. **nonconservative** [CPPT10]. **nonconvex** [CD15, LZ17]. **noncooperative** [CZ10]. **noncrystallographic** [CS15b]. **noncylindrical** [AKPZ15]. **nonlinear** [Akr13, Akr16, ADL11, AL16, BR18, BJKM11, BCL15, BGNyS11, CG16, CMTZ16, CS13a, CMS11, DLZ11, Deb11, DKMW13, ET10, Fan12, Fan14, GI16, GGH15, HP10, HR10, HJW18, Jin10, Kre12, MPT18, OS10, QzSZ15, Seg17, Shp11, SX16, WMxY17, YPP13, ZqCt16]. **nonlinearity** [HLR13]. **nonlocal** [BC14, DJTZ13, Mon10b]. **nonnegativity** [JLTZ17]. **Nonoverlapping** [HSW10, GX17]. **nonresidues** [SwaAbLCW11]. **nonsingularity** [HK18b]. **nonsmooth** [LS17]. **nonstandard** [HP10]. **nonstationary** [BP10]. **Nonsymmetric** [MSS11]. **nontrivial** [CM13]. **nonuniformly** [CNOS16]. **norm** [Cer11, DLSW12, FL18, MPT18, Not15, WO10, YY13]. **norm-Euclidean** [Cer11]. **normal** [ÁB17, BHS15, Bur10, FA14a, FA14b, HPS17, Kir12, Sch17]. **normality** [NS13]. **Note** [GKS17b]. **novel** [FA14b, Mus18, NRW17]. **Nuclear** [FL18, YY13]. **Number** [JW12, ABE<sup>+</sup>16, AK12, BBT15, BHS15, Bia14, BC15, Cer11, Cha18, Coh15, DHJ17, FW11, FX13, GPOS14, HZ13, HMS11, Har14, HKÖ11, JKL11a, JKL11b, Jeo16, Kem10, KÖ18, Kru16, Lez14, Lou11, LCQ17, Meš14, Ngu16, OR14, OS10, PV15, RGNS18, Rob15, Sch10, TV10, Tao14, Tho10, ULS12, ZD14]. **numbers** [AGHS14, ÁB17, BC13b, BR98, BR05, BR11, CLPM16, CS10, CD17, DFGSL13, Dit14, DK15, FNO12, GM13a, GOM11, GOMS15, HP13, Har10, Kuc11, LOX14, Lou11, Mil15, MNW10, NS13, Nie15, OR12, Pap15, Sch17, Shp11, Wu10a, Zha11b, Zha15]. **Numerical** [Bar10, Ble12, BP15, CLAT12, DM14,



Doo15, DRS11, GO16, Hai10, HWZ14, HP12, JL12, LZ15, MNZ13, Pla16, PZ17, RV14, RSS12, Wut18, ZZJZ18, ABBM18, BOP17, BFZ10, Bor10, BAFG18, CHR15, DFGSL13, DP15, Dro10, FH16, GZ13, GM10, HNUW14, HJW18, JZ11, LK12, LZ17, RPR12, Spi17, SZ18, HO12]. **numerics** [HLJ16, IPZ15]. **Nyström** [GL15, OMS15].

**Oberhettinger** [Coh12, Szm13]. **objective** [KM16]. **Obrechhoff** [ADGR12]. **obstacle** [AdVV13, BySZ12, GP14, KZ11]. **obstacles** [BCS16]. **obstruction** [LRS16]. **occurrences** [Kus18]. **Odd** [CS10, Nie15, OR12, Dit14, FNO12, FLM14, OR14, Tao14]. **ODEs** [LM18]. **one** [Adc11, AJ14, CZ16, CCD16, CCLX17, DOZ13, GM10, KSX17, KZ18, LMY12, LW18b, LS10b, SS15, Spa13, Xu14b]. **one-dimensional** [AJ14, CZ16, CCLX17, GM10, LMY12, LW18b, LS10b, Xu14b]. **one-sided** [SS15]. **one-space** [CCD16]. **only** [Kop14]. **operations** [JR18]. **Operator** [HKRT11, HLR13, HKK13, AZ18, BNS15, BCM16, BzCS12, BP12b, Che12, CS13a, ET10, FMP16, HY15, LMY12, MDK13, MMN11, RS17a, RV14, Vab12, Ver14, WO10]. **operator-difference** [Vab12]. **operator-valued** [BzCS12]. **operators** [AGS16, AFF<sup>+</sup>17, BP15, CM12, CNOS16, DY12, DGS12, Gal17, Git13, HR10, JLPR15, KMF17, LWCI13, WKN13, Ye18]. **Optimal** [BC13a, BGGG17, BSSW14, Che12, DI15, GGH15, KHOLT14, LS10a, Liu15, MSW16, PMH18, SW10, APR15, BM11, CR11a, CPSV18a, Mus18, Str13, dVG16, JR18]. **Optimality** [LM13, LMNN18, ZCS<sup>+</sup>12]. **optimally** [MC12]. **Optimization** [ABF<sup>+</sup>10, BBT15, BO15, CS15a, CD18, HLZ15, LGY15, TY17, ZQY12, Naz10]. **Optimized** [BCCM13, GX17]. **Optimizing** [Bur10]. **orbits** [LPSH11, dGO14]. **order** [AADL11, ABBM18, Alf10, AC18, AL17b, BCCM13, BSSW14, CSS15, CPPT10, CLAT12, CH13, CXZ15, CCD16, CS13a, CR16, COQ10, CQS12, EW16, ETX11, ES16, EHR18, FHN17, FL18, GM14, GM17, GV15, GGH15, GK11, HKÖ11, JLPR15, KP12, Kop14, KL10, KP14, Kry13, LP18a, LWCI13, LFS15, MR10, PKLC14, QzSZ15, RW18, SSW16, SW11, Str13, TZD15, WX13, WY14, WW18, Wen13, Xu14b, ZY14, ZZWZ15, ZHX11, DD17].

**Orders** [DS18, BJ11]. **orthogonal** [AH17, ADGP13, ByTC13, BMPR16, CLRR12, CZ10, HZ13, IW13, KS15, Kve10, MFRV18, RS17b, WHV14]. **oscillations** [ADL11]. **oscillators** [XW10]. **oscillatory** [CMTZ16, IL11, MX18, XW10]. **osculatory** [RS17b]. **Osher** [CMR10]. **other** [Cof14, Riv16]. **overlapping** [KP12, Yan17].

**P** [Coh12, Szm13]. **Padé** [BKMW11, YF15]. **pair** [Ktr10]. **Pairing** [IJ13, ULS12]. **pairing-friendly** [ULS12]. **pairs** [CLTZ12]. **palindromes** [CLB18]. **paper** [Cof14]. **para** [CLRR12, MFRV18]. **para-orthogonal** [CLRR12, MFRV18]. **parabolic** [Akr13, AK16, Akr16, ALL17, BCCM13, CG16, CZ16, CT12, CQT11, DM10, GV15, Gon13, GO16, GK11, JL12, KSU16, LMP15, LS17, RS16, UP14, Wen13, Yan17, ZD14]. **Parallel** [CGHW14, GMS12, HYZ14, Yan17, ZGFD14]. **parallelepipeds** [SR11, SVVR14]. **parameter** [LM13]. **parameterized** [SY16]. **parameters** [AKKL12, Chu12, DP15]. **parametric** [BC17, RS17a, Tab17]. **Parametrized** [Xu14b]. **Paramodular** [PY15, RTwaabRS16]. **Part** [Ble12, BB12, DHJ17, AA11, AKLZ12, AKKL12, CC14, CFS17, DGS12, EGHL10, NH11]. **partial** [Bar16, BTDG13, Büt16, Deb11, ELSW18, FHN17, GG17, HLR13, KSU16, La 15, RW18, WX13, WKN13, Yan17, Zra10b]. **particle** [ALS17a, HL17, LY17, MO13]. **particle-mesh** [MO13]. **partition** [CWX16, Pro17]. **past** [BM11]. **patches** [KS15]. **paths** [BCKM18]. **pattern** [CMS11, Kus18]. **pattern-forming** [CMS11]. **PDE** [HK18b]. **PDES** [NRW17, BC17, ES16, HPS17, OS16a]. **Pearcey** [LP17c]. **Pell** [MRW10]. **Pellet** [Mel16]. **penalized** [GGG11]. **Penalty** [HS15, WMxY17, AC18, BGNyS11]. **penalty-projection** [AC18]. **pencils** [BEG16, Ver14]. **Perfect** [BC15, BSL13, SR11, Dit14, FNO12, Nie15, OR12, OR14, SVVR14]. **perfectly** [BLW10, BJV18]. **peridynamic** [DJTZ13]. **Period** [RS14, Alk10, Alk11, MNW10]. **periodic** [CJ13, KSU16]. **periods** [Lai16]. **permanent** [ELSW18]. **permutations** [Kus18, NPPY12, Shp11]. **Perron** [Wu10a].

**persistence** [JK17]. **Perturbation** [CSV12, BCG16, ZZWZ15]. **perturbed** [FM18, GO16, HS13, KP12, XZ10, ZZ14]. **perturbing** [DP15]. **Petrov** [RS17a]. **Peyre** [DEJ14]. **phase** [CS18, CPV14, DVY15, Fre18]. **phase-field** [CS18]. **phenomenon** [BKMW11]. **physics** [CGHW14, Coh12, MOS66, Szm13]. **Picard** [Bru13]. **pick** [Riv16]. **Piecewise** [BS15b, CDFS13, AH15a, BY12, Bat15, DT11, LP17a, LXX14]. **piecewise-smooth** [Bat15]. **Pisot** [DHJ17, HP16]. **Pitaevskii** [BC13a]. **Planar** [GKL<sup>+</sup>17, BCCW16, JKK<sup>+</sup>10, Mou14]. **planes** [Rit10]. **plate** [DRS11]. **plates** [BySZ12, Dua14, Xu14a]. **plus** [CL10]. **PML** [BPT10, CXZ16]. **PN** [Hut15]. **Poincaré** [DT11, JJK<sup>+</sup>15]. **Point** [BGH14, AH14, BST11, DKMW13, Fis17, HH13, JKLM17, JR18, LS10b, MSM14]. **points** [Baa10, BCS15, BBM17, BLS13, BCL<sup>+</sup>11, DDLR15, Els12, GS10, GM15, HPS17, Hut15, Kru16, Ler12, Tui16, Yao13]. **Pointwise** [GL12, DM10, DL13, Kop14]. **Poisson** [HFC18]. **polarization** [AKLZ12, AKKL12]. **polarized** [Cin15]. **Pollard** [Zra10a]. **pollution** [Pet17]. **polygons** [LZ17, RGB14]. **polyharmonic** [Gal17]. **polyhedra** [GL12, LS17, SSW16]. **polyhedral** [Li18, MSS11]. **polylogarithm** [RGNS18]. **polylogarithms** [BB16]. **Polynomial** [CDTW18, DGS12, AZ11, AJ14, BBD<sup>+</sup>11, BL17, BDM10, BCCW16, BKS15, BCPR14, COS14, Che12, CR15, DYY14, DJŠ18, FM12, HLZ15, HLJ16, Kve10, LP17b, LS10a, NN16, Ngu16, OS10, RJS12, SH11, TWO18, WHV14, dVG16]. **polynomials** [AS15, ADGR12, ADGP13, AM11, BBT15, BBKZ16, Bar15a, Bay11, BC13b, BL12, BAS16, BLS13, BCCW16, BLS12, CDS10, CLRR12, DJŠ18, Err14, FR15a, Gau17, GG14, HSW11, IKRS12, Kön17, KS15, Ler12, LXX14, LOX12, LS10c, MFRV18, Mel16, Mel18, MC15, NRV12, NS18, Pan17, RY15, RS17b, SZW11, Str14b, Sut11a, Ula14, WHV14, Zra10b]. **polytopal** [CW17, DiP18]. **polytopes** [BZ18]. **porosity** [GRBT16]. **Portrait** [KT10]. **posed** [AKPZ15, BTDG13, CSS15, OS16a]. **posedness** [GM10, LHY15]. **posets** [CS15b]. **position** [JvSRV14]. **position-dependent** [JvSRV14]. **Positive** [LS10c, Peh11, BzCS12, BC16, CM12, CLB18, KL10, McK11, SD10, STD15, SX14, ZC13]. **Positivity** [CGP12, LWZ18, LP17a]. **Positivity-preserving** [CGP12, LWZ18]. **post** [JvSRV14]. **post-processing** [JvSRV14]. **Posterior** [ST18b]. **posteriori** [BM11, BER17, CHZ17, CPV14, CMQ13, CZ14b, DM10, DL13, DVY15, DJTZ13, GP14, KM15, LMP15, MR10, Ort11, RS16, Voh10, WKN13]. **postprocessing** [Cao15]. **potentials** [CMS11, LMS11]. **Powell** [CLR13]. **power** [AK12, Ang16, Doo15, Har11, Hir13, Joh15, KB16, Mah14, Wu10b]. **power-law** [Hir13]. **powers** [BP15, BD10b, Hit17, Sad14]. **practical** [FKBJ17, GQ14]. **Precise** [Fuk11]. **precision** [BCPR14, dR11]. **Preconditioned** [SX16]. **preconditioners** [BBB16, CHH18, dDHZZ14]. **preconditioning** [DFR12, EFP10, GOP16, GSV17, LSXZ12]. **preimage** [KO12]. **preorders** [KTA18]. **preperiodic** [Hut15]. **prescribed** [GKL<sup>+</sup>17, JKL11a, JKL11b, Jeo16, Sut12]. **presence** [CZ11, LZ16]. **Presentations** [JKdR16]. **preservation** [JLTZ17]. **preserving** [AJ14, BLT13, BGG<sup>+</sup>17, COS14, CGP12, GGH15, HK18a, LWZ18, NKK17, Xu14b]. **pressure** [CZ12, CC12b, GRBT16, LMNN18]. **pressure-robust** [LMNN18]. **primal** [OWZD18, Voh10, WW18]. **primal-dual** [WW18]. **primality** [ASSW16, GOM11, GOMS15, LP18b]. **Prime** [Mah14, AS15, FLM14, GG14, GM16a, GM16b, JD14, KC15, KtR10, LN11, LN14, Mil15, MNW10, OR14, OHP14, RGNS18, Sad14, SW17, Tre12]. **prime-pair** [KtR10]. **primes** [BI10, BDFP15, BH11, CGH14, HHO17, Meš14, TCH12, Tao14]. **primitive** [COT15]. **principle** [BH16a, FJS16, HK17, Jin13, MP12, Xu14b]. **priori** [CQS14, LL17, Ort11, Voh10]. **priors** [CSS15]. **Probabilistic** [AH14, BLS13, LL15]. **probability** [FA14a, FA14b]. **problem** [ABHV11, BCLZ14, Bar15b, BBR12, BG11, BD15, BKN15, BPT10, BySZ12, Bur17, CC13a, Cal13, COT17, CD15, CT12, CGN17, CC12b, CGH<sup>+</sup>16, DVY15, Die11, EFP10, EGHL10, EGHL12, FKS12, GOS11, GL12, Ish17, KCL14, KP12, Kre12, LL17,

Ols12, PKLC14, RPR12, SW11, XZ10, Xu14b, ZZWZ15, ZZ14, ETX11, LMNN18]. **problems** [Abd12, AV14, AdvV13, BCFG17, BBB16, BHW13, BST11, BCKM18, BNMP18, CHZ17, CSS15, CGS18, CGS15, CXZ16, CPSV18a, CHR15, CGH10, CQS12, CD16, CG11, DFR12, DM10, DKMW13, ET10, FM18, Gav10b, GV15, GI16, GO16, GSV17, Gud10, GP14, GSS16, GK11, HW18, HSW10, HC11, HC15, Jin10, JL12, JLPR15, KZ11, KSS<sup>+</sup>17, LMP15, LLS15, LLS17a, LW18a, Li15b, LX15, LS10b, MP14, MDK13, MNU15, Nak11, Pet14, Pet17, SSW16, Spi17, SW10, UP14, WY14, WKN13, ZQY12, ZY14, ZD14, dDHZZ14]. **procedures** [Gra11]. **process** [Alf10, Sid10, ST18b, SH11]. **processes** [BMM18, HJW18]. **processing** [HYZ14, JvSRV14]. **producing** [AS15]. **product** [AGHS14, BP12a, CDFS13, FA14a, GH13, JdRV14, Sad14, SSV14, ZC13]. **product-quotient** [BP12a]. **products** [BEF16, JKdR16]. **programming** [AZ11, DHYZ17, WMxY17, ZZWZ15]. **progression** [McN15]. **Projection** [Bar16, DGKS16, AC18, CCS12, CGS10, Li17, Che12]. **projection-based** [CCS12, CGS10]. **Projection-free** [Bar16]. **projections** [CMZ17, FW14]. **projective** [Bru13, Kru16, Wel17]. **projector** [MN10]. **prolate** [Wan10a]. **Proof** [BDFL17, BD13, CH13, COT15, CR11b]. **propagation** [BCFG17, BCS16, DK10, Mon10b]. **proper** [IW13, PY14]. **properties** [AK16, Akr16, BMP10, Gau17, HP16, HJW18, KL13, NH11, Ser17, Wan10b]. **property** [CNZ16, DLSW12, MMN11, SZ18]. **Prouhet** [Cal13]. **Proving** [DGP10, ASSW16, Büt15]. **Pseudo** [LSW14]. **Pseudo-Random** [LSW14]. **pseudoprimes** [JD14, Müll10, SW17]. **pseudorandom** [GPOS14, HMS11, OS10, Shp11]. **pseudospectral** [GLS11]. **pseudostress** [CZ12]. **pseudostress-pressure-velocity** [CZ12]. **Puiseux** [WLZ17]. **pursuit** [DZ16]. **Pythagorean** [JKK<sup>+</sup>10]. **Pythagorean-hodograph** [JKK<sup>+</sup>10].

**QBD** [BMM18]. **QMC** [BSSW14]. **Quadratic** [Kle16, RGB14, BBM17, BC15, BF18, CIL15, Coh15, CMS11, DGP10, GP17, Gre15, GM13b, KKP10, Kir12, Kuc11, LLS15, LLS17a, LOX14, MJ16, SwaAbLCW11, Tre12, ZZWZ15]. **quadrature** [BR18, GLS11, IL11, JR13, LS10c, MS14, Mon10a, Not15, Peh11, Spa13]. **quadrilaterals** [ByHl10]. **quantum** [LZ18, PPTZ13]. **quantum-classical** [LZ18]. **quartic** [Els12, GJLR18, HZ14, JKL11b, Lou11]. **Quasi** [AHS17, BM11, He18, KSS<sup>+</sup>17, LMNN18, ByTC13, BMM18, DL15, HPS17, Lab18, MSM14, SH11, BSSW14]. **quasi-Chebyshev** [SH11]. **quasi-incompressible** [DL15]. **quasi-linear** [Lab18]. **Quasi-Monte** [He18, KSS<sup>+</sup>17, HPS17, MSM14]. **Quasi-optimal** [BM11]. **Quasi-optimality** [LMNN18]. **quasi-orthogonal** [ByTC13]. **quasi-Toeplitz** [BMM18]. **Quasi-unbiased** [AHS17]. **quasicontinuum** [Ort11]. **quasilinear** [AV14, ALL17]. **quasinonlocal** [Ort11]. **quasiseparable** [DOZ13]. **Quaternion** [MC15, PS14]. **question** [Alk10, Alk11]. **questions** [Riv16]. **quincunx** [HJSZ18]. **quintic** [Dum17, LM17]. **quotient** [BP12a].

**R** [Coh12, Szm13]. **Rachford** [DZ16]. **Radau** [CMZ17, Not15]. **radiative** [GZ13]. **radii** [HLJ16]. **radius** [BM12, CLTZ12]. **Rado** [ABE<sup>+</sup>16]. **Ramanujan** [Chu11]. **Ramanujan-like** [Chu11]. **ramified** [PV15]. **Random** [LSW14, BCLZ14, Cha18, EFP10, Git13, HO12, HL17, LL15, LLP16, LP18b, LY17, MS12, Ngu16, Riv16]. **randomized** [LW16]. **range** [Gau17, KPRBT14]. **Rank** [SY16, BC17, DOZ13, Fon11, Hei12, PR15, Sør16, Yen11]. **rank-** [Sør16]. **Rao** [DFGSL13]. **rapidly** [Mon10a]. **rate** [NT16]. **rates** [CDFS13, Li10, PMH18, WX12]. **Rational** [Els12, BDFP15, BCCW16, CM13, Chè13, DLRNS18, FGMS12, Fis17, GJLR18, Hut15, JR13, Kle13, Lai16, NH11, Pap15, SSV17, YF15, PDSV15]. **Raviart** [CGS15, AADL11, CZ14b, DL15, OWZD18, Sty14]. **ray** [Kuc11]. **reaction** [BNMP18, DHMG11, HH13, IW13, KP12, SS15]. **reaction-diffusion** [KP12]. **Real** [Mil15, BGH14, BB12, CLRR12, DM14, DHJ17, GP17, KK14, MN10, Rob15, Tre12]. **realizations** [LMY12]. **reciprocal** [Har11]. **recombination**

[Chè13]. **reconstructing** [ABF<sup>+</sup>10].  
**reconstruction**  
 [AH15a, AKLZ12, AKKL12, ABBSM16, BY12, Bat15, BDFP15, MZ16, Sfa13, XZ15].  
**reconstructions** [CPSV18b]. **Recovering** [GG14].  
**recovery** [Cao15, GZZ17]. **rectangular**  
 [CH13, HZ15, Sty14]. **recurrence** [BMPR16].  
**Rédei** [Sza11]. **reduced** [LRS16, UP14].  
**Reduction**  
 [BL12, CSV12, CMSC10, HMS11, Pap15, ZY15].  
**Reductions** [Ver14]. **refined** [AGS16].  
**refinement** [DS17, dVG16]. **refinements** [BS15b].  
**reflection** [MP17]. **Regeneration** [HSW11].  
**regime** [BS18, CY18]. **region** [SD10, STD15].  
**regions** [HNRW18]. **regression** [GT16]. **regular**  
 [KT10, TK12]. **Regularity**  
 [ABBM18, EHR18, Li15a, ALL17, Has12].  
**regularization** [DVY15, KO12, PMH18].  
**regularized** [BCKM18, Jin10, Jin13]. **regulator**  
 [Bia14]. **regulators** [BÇS15]. **Reingold** [LSW14].  
**Reissner** [Dua14, DRS11]. **related** [BO15, ByTC13, Büt16, IKRS12, KL13, LLS15, LLS17a].  
**relation** [LOX14]. **relations** [BT15, NRV15].  
**relative** [JR18, Mor13, XY13]. **relaxation**  
 [BLT13, CL10, CNPT10, CJLW18]. **relaxations**  
 [JgLW13]. **reliable** [KZ11]. **remainder**  
 [BBR12, Sut11a]. **remarks** [BL17]. **repdigits**  
 [BSL13]. **repetitions** [RR16]. **representation**  
 [Cof14]. **representations**  
 [CFLT14, DD10, LPRY10, LP17b, Mas18].  
**representatives** [PS14]. **Residual** [CHZ17].  
**Residual-based** [CHZ17]. **residue**  
 [Ang16, BF15, LLS15, LLS17a]. **residues** [Lou11].  
**resolved** [AKLZ12, AKKL12]. **resolvent** [Coh15].  
**restoration** [BKM18, ZDL13, KM16]. **result**  
 [Jag12]. **results**  
 [Cof14, Gau17, Jin13, LWCI13, StR14a]. **reverse**  
 [LWCI13]. **reversion** [Joh15]. **review** [Gav10a, Gav10b, Gav11, Gra11, Hai10, Kem10, Naz10].  
**revisited** [BDM10, BCKM18, GMZ11, GM13a].  
**RH** [Büt16]. **Rham** [Nei15]. **Riccati** [LK12].  
**Richardson** [Sid10]. **Riemann**  
 [BSO12, BB12, Cof14, Dus16, GI16, Hia11, Hia16a, KK14, LPRY10, Tru12, dR11]. **Riemann-Siegel**  
 [dR11]. **Riesz** [JZ11]. **rigid** [FGMS12]. **Rigorous**  
 [BJM17, HLJ16, vdBLM10]. **ring** [FK18b]. **rings**  
 [Bis15, BJK11, Gre15, HKL16, JdRV14, JJK<sup>+</sup>15].  
**Ripa** [DZBK16]. **Ritz** [Li17]. **Robin** [JL12].  
**robust** [BM11, LMNN18]. **robustness** [PVV17].  
**rods** [Xu14a]. **role** [CD17]. **Root**  
 [BBT15, BKS15, CS15b, Har11, JW12].  
**rootfinding** [NP17]. **roots**  
 [BLS13, CMSC10, COT15, DS14, NN16, RS17b, SwaAbLCW11, WHV14]. **rotating** [GLS11].  
**rotation** [BC13a, FGMS12]. **ruled** [SSV17]. **rules**  
 [DK10, LS10c, SX14, Sør16, WLZ17]. **Runge**  
 [AZ18, BGG<sup>+</sup>17, COS14, COQ10, ET10, GGH15, HS11].  
**Sabin** [CLR13]. **saddle** [GOP16, Yao13]. **Saint**  
 [ABBSM16]. **Saint-Venant** [ABBSM16]. **same**  
 [DHJ17, ZC13]. **sampling** [AH15a, CJLW18].  
**satisfying** [BC16, BMP10, CNPT10]. **scalar**  
 [BCG16, BGP14, BCL15, CZ11, CJLW18, DHMG11, IPZ15, LZ16, Xu14b]. **scale**  
 [BMBO13, DGKS16, JgLW13, MZ16, SX16]. **scales**  
 [Abd12, AH17, DJ12a, Jor12]. **Scaling**  
 [CPSV18a, Cal16, OWZD18]. **scattering**  
 [BLW10, BPT10, CXZ16]. **scheme**  
 [ADL11, AC18, ABBSM16, Bar10, CS18, CG16, CLWW16, CSO13, CMR10, DHYZ17, EGHL10, GLL12, GHLM18, GT16, HS13, Ing13, LS18, LX15, Mon10a, Sog15, Sog16, TU18, YDk12]. **schemes**  
 [ALS17a, Alf10, AG16, BCG16, BGM15, BCS16, BCL15, BSSW14, CGP12, CJLW18, CG11, DJ13, DZBK16, DKMW13, DHMG11, EGHL12, GK11, HMS14, JLQZ18, KPRBT14, KHOLT14, LZ15, MP12, Mon10b, MZ10, PS16, Pro17, QzSZ15, SZ18, Ten10, Vab12, Vab14, Xu14b]. **Schrödinger**  
 [AKPZ15, CMTZ16]. **Schrödinger-type**  
 [AKPZ15]. **Schwarz** [GX17, GH18, KP12, Yan17].  
**Schwarzian** [Seg17]. **SDEs** [SZ18]. **Search**  
 [AKR18, CS15a, CGH14, GOP16, Meš14].  
**Searching** [AT16, BGH14]. **Second**  
 [AC18, Cre14, CQS12, FHN17, Fuk11, GK11, KP12, Kry13, PKLC14, QzSZ15, SSW16, Str13, TZD15, WY14, WW18, ZY14, ZZWZ15]. **Second-order**  
 [AC18, CQS12, KP12, Kry13, PKLC14, QzSZ15, SSW16, ZY14, ZZWZ15]. **sector** [FR15a]. **seeds**  
 [BAFG18, Zha11b, Zha15]. **Segal** [LWZ18]. **Segel**  
 [HL17, LY17]. **Selecting** [Bar15a]. **selection**  
 [BL17, JLQZ18, LM13, OWZD18, QzSZ15]. **self**

[Ang16, Kir10, YDk12]. **self-affine** [Kir10]. **self-canceling** [YDk12]. **self-power** [Ang16].

**Semi**  
[BMM18, BHM12b, DJ13, AZ18, KK11, Yao13]. **semi-differentiable** [Yao13]. **semi-explicit** [AZ18]. **Semi-implicit** [BHM12b]. **Semi-infinite** [BMM18]. **Semi-Lagrangian** [DJ13]. **semi-stationary** [KK11]. **semidefinite** [AZ11].

**Semigroup** [CG11]. **semigroups**  
[BAFG18, DFGSL13, FH16, RPR12]. **semilinear** [HW18, JgLW13, KP12, Wen13]. **semilocal** [Arg11]. **Semimatching** [CC14]. **semiregular** [NPPY12]. **semisimple** [dGO14]. **sensing** [BO15, BMBO13, CDTW18, RS17a]. **separable** [BFZ16, DHYZ17, HYZ14, SY16]. **separate** [ELSW18]. **septic** [LM17]. **sequence** [CLPM16, MFRV18]. **sequences**  
[BM12, CLTZ12, Mah14, Sid10]. **sequential** [DHYZ17]. **serendipity** [RGB14]. **Series**  
[Cof14, Fuk12, Adc11, Alk10, Alk11, BH16b, CFJ12, CZ14a, FA14b, Har11, Joh15, KPSY18, Lan11, LA14, RSS12, Sid11, Chu11, Chu12, Ram16]. **set** [BHSP11, BLS13, CD18, HLZ15, KT18, NPPY12].

**sets**  
[AH14, BHSP11, CDTW18, MSM14, McN15, Xia18]. **Setzer** [DS18]. **several** [Ram15]. **sextic** [BH16b]. **Shafarevich** [Cor10, DS18]. **Shah** [BER17]. **shallow** [AD16, BC16]. **shallow-water** [BC16]. **Shanks'** [BHH<sup>+</sup>12]. **Shape** [AKLZ12, AKKL12]. **Sharp** [Fre18, Mor11, Sty14, SD10]. **sharper** [STD15]. **Sharply** [DM10, DGS11]. **Sharpness** [Li10]. **Shaw** [CLWW16]. **shell** [NM17]. **shifted** [ELSW18]. **Shimura** [Nel15]. **Shishkin** [FKS12]. **shock** [CJLW18]. **shocks** [CZ11, LZ16]. **shooting** [LMT10]. **Short** [MC13, KPRBT14]. **SIAC** [JvSRV14]. **sided** [SS15]. **Siegel** [BSO12, Hia16a, KPSY18, Lan11, RSS12, dR11]. **Sieve** [FNO12, BBT15, Gra11, Sch10, Bar15a]. **sieving** [Kle16]. **sign** [FK18b, PT16]. **simple** [BJK11, FMP16, GMS12, HSW10, Kön17]. **simple-layer** [FMP16]. **simplex**  
[BBD<sup>+</sup>11, Che12, CLR13, SX14]. **simplicial** [CWD14]. **simulation**  
[ITT12, JLH13, KHOLT14, LHY15]. **simulations** [CSO13]. **Sinc** [OMS15]. **singular**  
[BGH14, BHW13, CT10, DKMW13, Err14, GL15, Hir13, LL15, MDK13, TV10, WLZ17, qWIGjY17].

**singularities** [BM11, FKS12, He18, SSV14, Sid11, Sid12, PDSV15]. **singularity** [KMPW10]. **singularly** [FM18, GO16, KP12, XZ10, ZZ14]. **Skew** [GV17]. **slicing** [Lin17]. **slip** [Ste11]. **slope** [JLQZ18, MP12, QzSZ15]. **Small**  
[BZ18, Gre15, BHSP11, BLS13, EW16, JW12, McK11, Zha11b, Zha15]. **Small-span** [Gre15]. **smallest** [LL15, Wu10a]. **Smooth**  
[CM14, TV10, BY12, Bat15, BKMW11, GKS17a, HNUW14, Mus13, Nei15, qWIGjY17, vdBLM10]. **smoothed** [GM16a]. **smoothing**  
[GKS13, GKS17b]. **smoothness** [CSS15, HJSZ18, JvSRV14, Zra10b]. **smoothness-increasing** [JvSRV14]. **Sobolev**  
[AN15, Chr18, HZ17, LS10a]. **solubility** [FS12]. **solution** [BCFG17, BJKM11, BCKM18, CCOV14, DFR12, EHR18, GO16, HP12, Ish17, Spi17, ZZJZ18, vdBLM10]. **solutions**  
[CZ10, CJ15, CDDM18, GI16, HLJ16, JXR12, JvSRV14, JZ11, Kry13, LMY12, LS17]. **solvable** [JW12]. **solved** [DF14]. **solver** [GZ13]. **solvers** [CPPT10, DOZ13]. **Solving**  
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[AADL11]

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**Atighehchi:2017:AFF**

[ABBR17]

Kevin Atighehchi, Stéphane

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[BBB16]

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[BBM17]

[BBKZ16]

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[BBLP13]

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**Chu:2012:AFE**

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[HJW18]

Martin Hutzenthaler, Arnulf Jentzen, and Xiaojie Wang. Exponential integrability properties of numerical approximation processes for nonlinear stochastic differential equations. *Mathematics of Computation*, 87(311):1353–1413, July 2018. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL <http://www.ams.org/>

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[HK18b]

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[HKÖ11]

[HKK13]

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**Holden:2011:OSK**

[HKRT11]

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**Hausen:2017:CAM**

[HKW17]

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