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Title word cross-reference

$(0, 1)$ [BD19, CR18a, CLT15, CMQV16, GT18, NS15a, NA17, ZM16, dCFF17]. $(2, 1, 0)$ [WG15]. $(75, 32, 10, 16)$ [AM18]. $(76, 30, 8, 14)$ [BPR17]. (A, m) [BSZ18]. (b, c) [Rak17]. (d, k, δ) [FJ19]. (δ, ϵ) [Zha18b]. (e, f) [KC16]. $(I - A)$ [CC18]. $(m, m - 1, 0)$ [HZ17]. (m, q) [BMN16]. $(\mathbf{P}^1)^n$ [LM16a]. $(N - 4)$ [HAM16]. $(p, n - p)$ [PR18a]. (p, r) [AdF19, EJ18]. $(v, b, r, k, \lambda) = (10, 15, 6, 4, 2)$ [Mic16]. $*$ [DI16]. $-(1 + \sqrt{17})/2$ [LM16b]. -1 [BK17a]. $\{-1, 0, 1\}$ [JMPS18]. $-1 \notin \sigma(S^{-T}S)$ [GMP16c]. -2 [CRS15]. -3 [KLY18]. 0 [BBH16, HL19b, Shi18b]. $\{0, 1\}$ [XLQC16, XCQ18]. $0 < p \leq 1$ [LC19]. 1 [BBH16, BR17, Hir18, HL19b, KY18, KLW16, MHL15, OP16a, PCI15, Shi18b]. 14 [Jel18]. 2 [AKR15, AK16a, AA17, BLdS16, BC15a, BH16a, CP16a, CG19b, CW15a, CL18, CJ17d, DFK+15, DHS18, EV15, HPSS19, Hoo19, KLP15, KY15, KY18, KIS18, LY16, LWX17, MMS16, Mic16, ME15, NP15a, OQ18, QKP16, Sam17, STW19, Wan15b, YLT16, ZXW19, ZGW16]. $2(n-1)/3$ [LS15a]. $2n$ [dlCMP17a, dlCdR17]. 2×2 [GHK17, GLRT18, KLP18, KM16, She17, Ulu19, UG18]. $2 \times 2 \times 3$ [LS15b]. $2 \times N$ [Sar19]. 3 [BK17a, BKLP16, CLZ16a, DFK+15, HN18, Kal16, Lee15c, LWX17, Sam17]. 3×3 [BBdH18, HK18b]. 4 [BDVRT15, KH17, LWX17, SS17a]. 5 [AMR+16, BDVRT15, JMP17, Jør15]. 5×5 [LS17b, SW18a]. 7×7 [HLPS19]. 9 [Kar16]. $[\mathcal{S}]$ [BGCMASS19]. $[x_1, y_1][x_2, y_2] \cdots [x_q, y_q] = 0$ [vWZ17]. *

[BCP16]. * [CP16a]. $_0$ [LQL15]. A [BDG15, CLST18]. $A^{s+1}R = RA^*$ [CLST18]. A_α [CLM19b, LHX18, LXS18, LL18b, LWCL19, NPRS17, XLLS18]. $A_\alpha(G)$ [CPR18, NR17]. $A_q(N, M)$ [Liu16b]. AB [GSW16]. α [CPR18, FKM17a, FKM17b, GX19, NR18]. $*$ [AG15b, AG20, BBEE18]. $A \to \mathrm{Tr}(Pf(A))$ [Gir19]. AW^* [LCLW18]. $AX + YB = C$ [MEMM17]. $AX - \bar{X}B = C$ [FKS16]. $AXA^* + BYB^* = C$ [MEMM17]. $AXB - C = 0$ [CGM17]. B [LL15a, NA15]. $B(H)$ [AR15b, NP15a]. BA [GSW16]. $\square_q$ [Yan18]. $B\pi R$ [OP19a]. c [Cha15, CCCNT19]. C^* [EP18a, LMX19, Mol18b, MEMM17, XF17]. $C_1^\vee, C_1$ [NT17]. $c_2 = 1$ [MMP16]. $\mathcal{B}(\mathcal{H})$ [Tur17]. $\mathcal{B}_\setminus$ [Sim18]. $\mathcal{C}_\setminus$ [Sim18]. $\mathcal{D}_\alpha$ [DPR19]. $\mathcal{E}_{\not|}$[Sim18]. $\mathcal{E}_{\shortmid}$ [Sim18]. $\mathcal{E}_\forall$ [Sim18]. $\mathcal{F}_\triangle$ [Sim18]. $\mathcal{G}_\in$ [Sim18]. D [Lin15a, BF15, FMM16, KZ17]. D_ν [GGMPC15]. $\Delta_2 = 0$ [MMP16]. $DL(P)$ [BBFF17]. E [Sma15, BL18a]. ℓ [DDV16]. ℓ^p [EE15, EM15]. $\ell^p(I)$ [Lju15]. $\ell^p(I)^+$ [LD16b]. ℓ_p [HT18a, Jia15]. f [Nie15b, Vir16]. F_2 [CKT19]. G [BBM19, zSqST15]. G_1 [KMS17a]. Γ [LLL17]. $\mathrm{GL}(V)$ [Gua18]. $\mathrm{GP}(n, k)$ [KMM17]. H [CDR18, CS19a, FuIKT16, HQX15, HWXC18, LZM16, SWB19, WYLW17, WLWZ19, wXL14, wXZ19, YQS16, ZLLL18, MMV19, MP16b]. H_∞ [Ste15]. H_n^* [Gao18]. I [LD17b]. ∞ [CGL16]. J [BFY18, HR17, dlCdR17]. k [ACT16, Che19a, DMS19, HHL15, HW15c, HSS16a, KNY15, KLW15, KLW18, MM17c, Nik16b, NLWJ18, ÖK18, QH15, Stu17, YYQ19, YG15, ZL15a, ZL15b, vDS16]. K_2 [Sin17]. $K_{2,t}$ [Nik17c]. K_5 [SUY16]. $K_{s,t}$ [dFNP16]. L [Dah15a, BR16a, DPV19]. $l^1(I)^+$ [LD17b]. L^2 [Fre18, Li15b]. L^p [LNW17]. $l^p(I)$ [LD17c]. L_∞ [BBMFM17]. l_p [BMN16, LC19]. λ [CM17, EP18b]. LDL^T [LMS15]. LQ [GH16b]. LR [Nom15c, Nom16]. LU [DEH16, SP16]. M [BC16b, GL16, HWXC18, JS16, KLS19a, MY16, SH15b, VB18, ZSWB16, ANAPSR17, BBMP19]. $M[[\alpha, \infty); (s_j)_{j=0}^m, \leq]$ [FKMS18]. $m_0\lambda(p)$ [EF19]. $M_3(\mathbf{C})$ [YLT16]. $\mathbf{E}^{n+1}$ [Kim15a]. $\mathbf{F}_\ell$ [SSS15]. $\mathbf{F}_q^3$ [MC19]. $\mathbf{H}_n$ [GLZ16a, GLZ16b, GL17]. $\mathbf{R}_\infty^4$ [HM16]. $\mathbf{R}^n$ [ÁVAK$^+$19]. $\mathbf{Z}_2$ [CR15]. $\mathbf{Z}_\ell$ [TZK17]. $\mathbf{p}$ [Sab19]. $\mathcal{B}(\mathcal{H})$ [CIMW15]. $\mathcal{H}$ [KSMB15]. $\mathcal{Z}$ [SWB19]. $\int\!\!\updownarrow(\in, \mathbf{F})$ [CCD19]. N [HAM16, AMR$^+$16, CILL16, DHS18, FJM18, LS15a, TWM16, VGG17]. $n + 1$ [dlCdR17]. $n - 3$ [LHH17, MQTW18]. $n > 1$ [AMR$^+$16]. $n \equiv 2 \pmod 4$ [Sma15]. $n \geq 3$ [IL17b]. $n \geq 4$ [GLZ16b, Gao18]. $n \geq= 5$ [GL17]. $n \leq 6$ [BCS15]. $n \times n$ [AOK15, Tan16b, Ter18, ZSQZ19]. P [DLQ18, DdF15, FdC18, NS15b, NS15c, BSS17, CL15b, CM16, DV18, EG15, Guo19, IL17b, JM16, JLM18, KNY15, LG18, Nik17a, WQH19, Wol18]. $p = 2, 3$ [PR18a]. P^2 [Kus16]. P_0 [DLQ18]. Φ_n [Ter18]. ϕ_S [GMP15, GMP16b, GMP16c]. $p \in (1, \infty)$ [LD16b]. $p \neq 2$ [IL17b]. Q [FZwCW16, GK15, NY15, PS19a, Yua14, Yua15, ZLS17, ZG18, dFNP16, BT17b, CJ17a, CJ15, CJ16a, Ern18, NS17, Nag19, NT17, Ter17a, Ter17b, dS18a, dS19a]. Q^2 [Kus15]. $q \mapsto \hat{q}$ [FKS16]. QR [RBKA16, Saw16, FZwCW16]. R [SS18, ÖK18, XFZD17]. $R^k = I$ [CLST18]. $R^{p,q}$ [RAAGA16]. R_{II} [IR19]. S [Bou16a, CCiT18, GMP15, GMP16b, LJL16, dlCMP15]. S^TS [GMP16c]. Σ [WLL19]. $\sigma(p)$ [BM17c]. Σ_1 [WLL19]. sl_2 [AC15]. SR [FR16]. $\star$ [NP15a]. $\mathrm{U}(p, p)$ [MY19]. $U_q(\hat{f}\!\updownarrow_2)$ [Ter17b]. $U_q(\mathrm{sl}_2)$ [SGH16, Ter15]. $UT_2(E)$ [CR15]. φ [dlCMP17b]. $Vir(a, b)$ [HCS17]. W [CF18]. X [PS16, LM17]. $X + A^*X^{-1}A = Q$ [Chu16]. $X - A\bar{X}B = C$ [FKS16]. $y^*f(A)x$ [FM16]. Z [Bal15a, DN16, LLV15, LZM16, OP19b, RT16]. Z_2 [Ste18]. Z_4 [Mor16b]. $|V(G)| - 2m + 2c(G)$ [zSqST15].

***** [DD16b]. ***-rings** [DD16b].

-adic [BSS17, EG15]. **-algebra** [CILL16]. **-algebras** [BCP16, CP16a, EP18a, LCLW18, Mol18b]. **-Aluthge** [CM17, EP18b]. **-approximately** [Zha18b]. **-atomic** [KY18]. **-Bernoulli** [Ern18]. **-Bernstein** [MMV19]. **-Bilocal** [CL18]. **-by-** [AMR+16, DFK+15, HN18, Lee15c, dlCMP17a, dlCdR17]. **-characteristic** [LL18b]. **-chromatic** [KNY15]. **-coherent** [GGMPC15]. **-colored** [Kal16]. **-commuting** [QH15]. **-cones** [IL17b]. **-connected** [HSS16a, NLWJ18, SS17a]. **-connections** [Nie15b]. **-contractive** [LCNZ19]. **-cospectral** [ZLS17]. **-cut** [Nik16b, vDS16]. **-cyclic** [MP16b]. **-density** [BDG15]. **-derivations** [NP15a]. **-designs** [BH16a]. **-digraphs** [FJ19]. **-dimensional** [BC15a, FMM16, KLP15, HAM16]. **-divergence** [Vir16]. **-eigenpair** [LLV15]. **-eigenvalue** [FuIKT16, HWXC18, Lin15a, SWB19, ZG18]. **-eigenvalues** [CLM19b, HQX15, YQS16]. **-element** [DHS18]. **-Euler** [Ern18]. **-gons** [VGG17]. **-graded** [CR15]. **-graphs** [BBM19]. **-ideals** [HR17]. **-ifications** [BR16a, DPV19, DDV16]. **-independence** [ACT16]. **-index** [NR18, Yua15, NY15, Yua14, dFNP16]. **-integral** [PS19a]. **-inverses** [KC16, PCI15]. **-isometries** [BMN16, BBMP19, CGL16, MMS16, BSZ18]. **-isomorphisms** [STW19]. **-join** [CDR18]. **-Laplacians** [NS17, Nag19]. **-less** [FZwCW16]. **-linear** [ANAPSR17, RT16, BGCMASS19]. **-Local** [AKR15, AK16a, AA17, CW15a, CP16a, NP15a]. **-majorization** [NA15]. **-majorizing** [Sab19]. **-matrices** [AMG19, BD19, CR18a, GT18, NA17, wXZ19, ZM16, dCFF17, Bal15a, CS19a, DN16, GL16, JS16, KLS19a, Kus16, MY16, OP19b, SH15b, SS18, VB18, wXL14, ZLLL18]. **-matrix** [CLT15, CMQV16, NS15a, BC16b, DPR19]. **-minimization** [LC19]. **-modified** [JM16, JLM18]. **-module** [Gua18, LMX19]. **-modules** [MEMM17, XF17, Yan18]. **-negative** [Wol18]. **-norm** [Hoo19, Nik17a, OP16a]. **-norms** [CL15b]. **-nuclear** [BM17c]. **-numerical** [CJ17a, CCCNT19, Zam19, Cha15]. **-Onsager** [Ter17b]. **-optimal** [Sma15]. **-order** [DV18]. **-orthogonality** [KZ17]. **-partite** [KNY15]. **-permanent** [dS19a]. **-permanental** [dS18a]. **-point** [KLW16, KLW18]. **-polynomial** [GK15]. **-positive** [YLT16]. **-potence** [Stu17]. **-potent** [Stu17]. **-potents** [XFZD17]. **-problem** [CG19b]. **-Racah** [NT17, Ter17a]. **-rank** [WYLW17]. **-ranks** [WLWZ19]. **-rays** [Dah15a]. **-Regular** [CLZ16a, MM17c]. **-resolvable** [Mic16]. **-rings** [BBEE18]. **-Riordan** [BT17b, CJ15]. **-scalar** [GX19]. **-scalings** [Kus15]. **-Schatten** [CM16]. **-Schur** [FKM17a, FKM17b]. **-SDD** [WLL19]. **-semiclassical** [GGMPC15]. **-semigroups** [AG15b, AG20]. **-set** [DdF15, NS15b]. **-sets** [NS15c]. **-Sheffer** [CJ16a]. **-simple** [PS16]. **-space** [LNW17]. **-special** [Ern18]. **-spectra** [JMP17, LXS18, NPRS17]. **-spectral** [KNY15, LZM16, LHX18, XLLS18]. **-SSD** [WLL19]. **-stability** [Fre18]. **-Stieltjes** [LM17]. **-subsets** [DHS18]. **-Sylvester** [DI16]. **-symmetric** [BFY18]. **-symmetries** [dlCdR17]. **-tensors** [LQL15, DLQ18, HWXC18, KSMB15, LL15a, OP19a, SWB19, ZSWB16]. **-tessellable** [HPSS19, KIS18]. **-th** [Guo19]. **-Toeplitz** [AdF19, EJ18]. **-trees** [HW15c, ZL15a, ZL15b]. **-triples** [BCP16]. **-type** [LJL16]. **-uniform** [YYQ19]. **-unitary** [CCiT18]. **-universal** [Bou16a]. **-variable** [KY15, KY18, LY16]. **-vertex** [TWM16]. **-vertices** [FdC18]. **-Walk-regular** [QKP16].

0 [BL18b, Zha15a].

1 [BL18b]. **1-tensor** [BL18b]. **18th** [GPW15]. **19th** [CFH+16].

2013 [GPW15]. **2014** [CFH+16]. **2016** [FLVV18]. **2017** [GHPS19]. **20th** [FLVV18].

436 [Duk15, LT16a]. **437** [Kis15]. **438** [LMO16]. **458** [wXZ19, Yua15]. **463** [EKSV18]. **467** [ZL15a]. **479** [BKSP23]. **486** [AG20].

501 [GP18]. **502** [Ano16a]. **505** [KHI16a]. **509** [SM18]. **510** [BF17b]. **512** [Bal18]. **513** [LZSD18]. **518** [GQ26]. **520** [FJS21]. **521** [LLS17a]. **523** [ASMN17a]. **532** [Hou20, dCDFK18]. **548** [GWL+18]. **558** [RB19]. **561** [PW20]. **577** [Ali20]. **582** [KAPS20].

6 [Bar15, Bru16a].

70th [BBF19].

8 [Tsa16b].

978 [Bar15, Bru16a, Tsa16b, Zha15a]. **978-0-521-54823-6** [Bar15]. **978-0-8218-9491-0** [Zha15a]. **978-981-4667-96-8** [Tsa16b]. **978-981-4749-46-6** [Bru16a].

= [SM16, SM18].

A. [CW18a]. **A6** [Jel18]. **ABC** [Che18c, Che19b, GS19a]. **Abel** [HJW19]. **abelian** [AJ19, TFC19]. **Aberth** [RV18]. **abs** [GBRS15]. **abs-normal** [GBRS15]. **abscissa** [HvdD16]. **absolute** [Eve18]. **absolutely** [AB19, Ege16]. **absorption** [BFM19, JT18a]. **abstract** [CW17, CFM16]. **Accelerating** [Pan15b]. **Accessible** [Lax16]. **according** [BDS15]. **accretive** [GHK17]. **accretive-dissipative** [GHK17]. **accuracy** [KR17, MH15, OZ18, TLL15]. **Accurate** [MMP17, MMV19, OP19b, SSB15b, BP16b, CLM19a]. **Achieving** [BH16a]. **ACI** [BC17a]. **ACI-matrices** [BC17a]. **acoustically** [BKLP16]. **acting** [Vir16]. **Action** [AM19, AMH11, Fis17]. **Acute** [Wei17]. **acyclic** [DdF15, Fer15, FKD15, kJ16]. **Adaptive** [CDTZ15]. **Addendum** [BF17b, RB19]. **adding** [GWL+18, GTL+18, JST19]. **Additive** [BFMK18, LL17, LY17, PZ17a, QH15]. **additivity** [ACM15, DFM17]. **ADI** [RW16]. **ADI-like** [RW16]. **adic** [BSS17, EG15]. **Adjacency** [CR17b, Ore16a, Ore16b, ARS16, AGH17, BK15, CLR+18, LL15c, Moh16, Pea15, SY15, Shi16a]. **adjoint** [AG18, GG18, KNR18, MY19, Nag15, Nie15a, Pan19b, PM15b, Shi16f, WHC17]. **adjointable** [AG15b, AG20, XF17]. **Adjusted** [UM16]. **admit** [JT18b, Stu17]. **admitting** [Hua15]. **AE** [Hla15, LX17, Li19, RW17]. **Affine** [DA19a, dSP16a, Zue18, LT19a, Ma16, Pan15b, PB16, STZ15]. **after** [Xu17b]. **again** [Pan15a]. **ahead** [UZ19]. **AI** [Nie19b]. **Al** [Fis17]. **Al-Mohy** [Fis17]. **Albert** [GQ26, QG17]. **Aleksandrov** [Geh15]. **Alexander** [KL18a]. **Alexandrov** [Ost15]. **Algebra** [ASMN17a, Ali20, Ano16a, AG20, Bal18, BMVW16, BF17b, BKSP23, Duk15, EKSV18, FJS21, GP18, GWL+18, GQ26, GHPS19, Hou20, KAPS20, Kis15, KHI16a, LMO16, LT16a, LLS17a, LZSD18, PW20, RB19, SM18, Tsa16b, wXZ19, Yua15, ZL15a, dCDFK18, AHV19, Bal15b, BS15a, CCiT18, CILL16, CK15a, Chi18, CW16a, CD16d, CLLS19, Dog18, DR17, DK18, FJP15a, FJP15b, GM16b, HCS17, Hol16, KS17, KY17, KMS17b, LMS16, Li19, LHG15, MMP16, Mor16b, Mos17, MP15a, MP19, Niv15, Olk15, Pas19, PS18b, RLP19, SGH16, SB15, Ser15, Ter17b, UG18, Wan19, dlP18].

Algebraic [BJ15, CCGV+19, EHK16, Oi19, PS19e, Sch17, AAMM18, Alf18b, BD15a, BBEE19, BB16a, BGCMPB15, BGdCCMSS17, BS18b, CN17b, Das18, DP16, DPJ17, DD17c, GMW18, GL16, KS19, Kol15, NT19, NR16a, PMB15, PRS18, RRV15, UM16, Zas16, Zha17, DP15b]. **Algebraically** [KQZ16, DB19a, LS15b]. **Algebras** [CRVSS19, AM15a, AEV16, ALH15, AEV15, AKR15, AK16a, AK16b, BZ16a, BKRE18, BY19, Bal17a, BES16, BGV17, BC15a, BdlCL17, BCS15, BCS16, BLdSV19, BP19b, BFD18, BBS16b, Bre17, BS19c, BCP16, Bur18, CP16a, CMV16, CMV17, CKM19, CLOK13, CPS17, Cha15, CW15a, CL15a, CR18b, CDTZ15, CME18, Cos19a, Cos19b, CDH18, DIR16, Der19, DKNS16, DOR16, EL16, EP18a, EF17, EF19, FKPS18, GGH15, Gol16, Gon15, Gow17, GJ18, HA15a, HAM16, HA16, Hou15, HZ19, JG16, JG17, KKO15, KLP15, KM15b, KSTX15, KLL17, LMO16, LL19, LT16b, LZ16c, LZ17c, LGZ18, LCLW18, LZ15e, MR17a, MI16, MI17, Mol18b, Mon19, MX16, NINS16, OW17, Oi19, Pel17, PR19, PR18b, Rai19, RE16, SBB15, SY15, Shi16a, TW16, Tom15, Wan16c, WZ17b, WFS19, Xu17a, ZK17]. **algebras** [Zha17, Zus17a, Zus17b, vWZ17]. **algorithm** [AAG+18, Ais18a, Ais18b, BDK+17b, CLM19a, CKM16, DD17c, Fay18, Fis17, FKM17a, FKM17b, GCC18, Kwo16, LLL17, LC19, Miz16, Pan15b, RKT15, SZ17, Yin19, CA18]. **Algorithms** [Ano16a, BMVW16, KLS17, Per18, SdJY+16]. **Aliasing** [BMS15]. **ALIF** [CGSC19]. **allow** [LP15]. **Almost** [SW16, VQ19, CS15b, Pol19, WHG17]. **almost-equidistant** [Pol19]. **Almost-invariant** [SW16]. **Almost-nonsingular** [VQ19]. **along** [Nag19]. **alternate** [GL15a, NAS18]. **Alternating** [BD19, FGH+15, HS16, Kob17, Pan15b, dSP16a, dSP16d, dSP16e, Ter18]. **alternative** [Koz16]. **Aluthge** [CM17, EP18b]. **amenable** [NINS16]. **American** [Zha15a]. **among** [BS18b]. **analog** [MM19b, Nie19a]. **analogs** [HT18a]. **analogue** [GKR16]. **Analogues** [MP17, AJ19, LN17]. **Analysis** [Ano16a, BMVW16, Tsa16b, AL16, BZ16b, CL19, CN19a, CA18, CGSC19, GZB19, GCC18, GCQX15, JLT17, Kir15, KIS18, KLS17, MM16a, MP17, Miz16, OZ15b, SNP16, See18, SLY17, Bar15, Bru16a]. **analytic** [JLM18]. **analytical** [GS18]. **Analyticity** [DvSW18]. **ancestral** [ADW19]. **Ando** [Ric19, Wad18]. **angle** [LMX19]. **Angles** [CPZ16a]. **angular** [CS15a]. **anisotropic** [AL16]. **annihilating** [NN19b]. **annihilator** [HAM16]. **anomaly** [Zim15]. **ansatz** [FS18a]. **antecedents** [Bar19]. **anti** [AyLPS18, AT15, BF19a, DDSC+16, FT18, GJK18, MV16, YWD16]. **anti-banded** [BF19a]. **anti-circulant** [AT15]. **anti-community** [FT18]. **anti-negative** [GJK18]. **anti-reflective** [DDSC+16]. **anti-regular** [AyLPS18]. **anti-triangular** [MV16, YWD16]. **anticommuting** [Hru16]. **antinegative** [DO16]. **antiperiodic** [GM15]. **antipodal** [Fil18]. **Anzahl** [GL15b, GL15a]. **Apartments** [Pan17, Pan16b]. **Appl** [ASMN17a, Ali20, Ano16a, AG20, Bal18, BF17b, BKSP23, Duk15, EKSV18, FJS21, GP18, GWL+18, GQ26, Hou20, KAPS20, Kis15, KHI16a, LMO16, LT16a, LLS17a, LZSD18, PW20, RB19, SM18, wXZ19, Yua15, ZL15a, dCDFK18]. **Application** [AMH11, Abi19, AO18, ACM17, BM16a, BFMK18, CRX15, DGGP18, DHW18, FBH19, FL15, GK15, KVP19, PHW16, RGPH16, Ste15, YYSX19, BTN+18]. **Applications** [APR+17, Ano16a, BMVW16, DH15, He16a, PCI15, AAG+18, AM16a, ANP16, AL19a, BBM19, BKNS17, BJKR17, BDDO16, BBP19, BR16b, Bri17, Bur18, CDR18, CDG16, CPZ16b, CIY15, CLS18,

CJ15, CJB18, CSW17, Chu16, CJ16d, DR16, DLQ18, FSSW17, GZB19, GHT16, GL15b, HM17a, He16b, Hua19, HC19, KC16, KKL+17, KK18, LCL15, LCWZ19, LLSX15, Lin15c, Lop17, MVPST19, MM16a, MMP17, MMV19, Mel16a, MNT19, MO18, NSCV16, PS19d, SSCS16, SSB15b, Wan16a, Xu17a, Zou17, Tsa16b]. **Applied** [Bru16a, LNT16c, Ser16, War17]. **approach** [ACPR15, BKLP16, BF19a, BBT15, BDP+18b, CC17a, CLLS19, FKM17a, FKM17b, GS18, HW16, JS18a, KÖ16, Mar15b, MR19, NN19b, Ota15, Per18, SZW16, XvdBvdLS15, YDHX18]. **approaches** [LMM+16]. **approximability** [KU16]. **Approximate** [CSW17, CKM16, PSM18, SLY17, AEV16, ACM17, FG17, dMGC19, KMOR19, LUC19, WZL17]. **Approximately** [Man19, Zha18b]. **Approximating** [Alo15, GKS19, BDK+17b]. **Approximation** [FK18, Bob16, CCO15, Gar17, GH17, GS19b, GCC18, JMRV16, KLL16, LL16b, PQY15, PW18, PHW16, RRT16]. **approximations** [BHK16, LS18b, OZ18, SZ19]. **Araki** [Hia16b]. **Arbitrary** [MI16, BCS16, BNST17, BC17a, CMV16, DDCY17, GLAdS19, GM19, HA15a, KSVW17, MM17b, OvdDV17, Wan15b]. **arc** [XSW19a]. **Archimedean** [ABG16a]. **arcs** [ZD16a, ZD16b]. **arising** [HvdD16, NT18]. **arithmetic** [IKW16, Zou17, Zou19]. **arithmetic-geometric** [IKW16, Zou17, Zou19]. **Arithmetical** [CV18]. **Arnold** [Lin16a, SS17a, BSS17]. **Arnoldi** [BMS16a, MP18]. **Aron** [KVP19]. **arrangement** [AB17, BS19a]. **array** [Bar19, YDYY18]. **arrays** [Bar16a, CW19, CJ17b, CS18a, He15, HS16, He18, KZ17, MMW17, WZ19, YDHX18, Yan16]. **arrowhead** [SSB15b]. **artifacts** [BL15]. **Artin** [SB15]. **aspect** [CS18a]. **aspects** [BC16b]. **assignment** [Bil19, RKT15, WZ17a]. **Associated** [XvdBvdLS15, ABP15, AG15b, AG20, Bal15c, BM19b, CCiT18, CEM15a, CLT15, CKS16, CJ16a, CN17b, FWB+19, FBH19, FX19, GL16, IHM08, LG18, Mon19, PR19, Pop16a, RMP18]. **Association** [WG15, BM19a, CHJM18, CGGV15, Han19a, Mor16b, MX16]. **associative** [AA17, Pel17, Zus17a]. **assortativity** [EB17]. **assuming** [LMS16]. **asymmetric** [CLHL15, FI16]. **Asymptotic** [CLR16, iT16, VG18, BÓ15, CUPW15, De 16b, Gar17, KLS17]. **asymptotically** [Dal17a]. **Asymptotics** [BGS15, BGM+19, MNT19]. **atomic** [KY18]. **attain** [CR19a]. **attainment** [SPH15]. **attenuated** [Liu16b]. **attractive** [SH15b]. **Audenaert** [Lin16c]. **augmentation** [PZ17a, PS18a]. **augmented** [Mas17, Ste15]. **autocovariance** [CIY15]. **Automatic** [DA19b]. **automorphic** [GPI18]. **automorphism** [FKS16, HA15b, TZ19]. **Automorphisms** [CD16d, AK16a, CW15a, Cos19a, CDH18, Wan15a]. **autonomous** [SSF16]. **autoregression** [FK18]. **average** [Das18, KLL17]. **AVMM** [BT17a]. **Avoiding** [KN16]. **Avram** [BEF16]. **aware** [Tyg19].

B [AMG19, DGP+15, MR19]. **B-splines** [DGP+15]. **backtracking** [AGHN18]. **Backward** [BCMASS15, Ma15, MP18]. **Baer** [BBEE18]. **balance** [CRRY15]. **balanced** [Mic16]. **balancing** [Zha15c]. **Ball** [MM16a, Dym16]. **balls** [Jia15]. **Banach** [AHV19, BM17c, BBS16b, CG19b, CDFK19, DK18, JC18, KVP19, KL19b, Mos17, NINS16, NP15c, PMW19, Pop16b, SPBB19, SB15, SBB15, XS17]. **band** [BGS15, CG15]. **banded** [BF19a, LDL18]. **bandwidth** [LDL18]. **Bannai** [WHG17]. **Bannai/Itô** [WHG17]. **Bapat** [Lin15c]. **bar** [Alf15, KS15b]. **bar-joint** [KS15b]. **Barabanov** [GMW18]. **Bartholdi** [TH16a]. **barycenter** [HL17a, HL18, KLL16].

barycentric [EG19]. **base** [BS16e, CDR+19]. **base-orderability** [BS16e]. **based** [Ais18a, AM16b, BL15, BB18, BKLP16, CIY15, DGM+18, DV19a, FT18, GCC18, MHA18, RD15, RMKJ18, RBKA16, RW17, Som17, SZW16, VT18, WG15, WL16, XXZ16, wXL14, wXZ19, ZD15, ZZR15]. **Bases** [Shi15, BDP+18b, DA19b, DA19a, DA19c, VD18, DPV19, DV19b, FS17a, HHR16, LS17a, MP16a, MB15, PM18, Rai19, Szá16, DDMV16, DDV16, WZW19, War17]. **Basic** [CKM19, SSS15, Ste15]. **basis** [AC15, DMQ19, Hür15, JMPS18, Lax16, MI16, You15, YMZ19]. **Baxter** [SS18]. **Bayesian** [RH15]. **BCCB** [Kar16]. **be** [Nom16, dCdSA15]. **behavior** [AB15a, Tab16, VG18]. **behaviors** [BMO15, Obe16]. **behaviour** [BCF+18]. **Belgium** [FLVV18]. **Belitskii** [CXLF16, CNX17]. **Bell** [ZSQZ19]. **benefits** [LMS15]. **bent** [ÇMP18]. **Bergman** [Lee19a]. **Berner** [KVP19]. **Bernoulli** [DTZ16, Ern18, He16a]. **Bernstein** [MP16a, MMV19, YMZ19]. **Bessel** [JC18]. **Best** [KRZ+17, BaHOS15, GH17, dMGC19, GCC18, Reb19]. **Bethe** [KSTY18, SdJY+16]. **better** [OZ18]. **between** [AJO15, BBM19, Bar17b, Bün17, CCW16, CDM19, CVV19, DM16a, DS17a, DMG17, DdFR16, EG19, HS19b, LL16a, LS19, LHL18b, MSSZ17, Min17, Mol18b, Obo19c, PMW19, RS17a, TW18a, WDFS17, Zui17]. **Beurling** [AS17]. **Beyond** [Nik16a, Fie15a, KL18a]. **Bezout** [BS19b, ACDT+15, Kwo16]. **Bezoutian** [Ota15]. **Bhatia** [DDF17a, Kim18, Lin17b]. **bi** [LMR16]. **bi-infinite** [LMR16]. **biased** [RBKA16]. **BIB** [HMS17]. **bicolored** [CD16c]. **Bicyclic** [BSP18, BBC18, LWX17, OQY17]. **Biderivations** [LGZ18]. **Bidiagonal** [FN17, MM16a, AAG+18, Hua15, MMP17, MMV19]. **bidiagonal-type** [Hua15]. **bidual** [KVP19]. **bijection** [Ter18]. **Bilinear** [CG19b, HSTW17, AAdFS19, DPS19, FM16, GLW17, Mar18, MdlP16, dFFRS17, CA18]. **Billiard** [Yan16]. **Bilocal** [CL18]. **Binary** [HI16, MBB+18, TVD15, Alo15, BS18b, CD16c, GCQX15, KM18, PS18a, Sei18, Tok17, Yor17]. **biography** [Olk15]. **bipartite** [BN17, DMS19, FuIKT16, GSZ16, HLSP17, HLW15, JKS15, uIKF15, LN17, aLwW15, MMP16, MM17a, MHN18, PS15, SZ17, Sim18, Sim19, VSV18, WHG17, WZL15, Zaj19, ZG18]. **bipartiteness** [RMS16]. **bipartitive** [BmBCC17]. **bipolar** [GM17]. **Birkhoff** [AR15b, CQCZ19, DDCY17, DD16a, DD19, DU16b, DKPU18, Fer15, kJ16, KL19b, PSG16, PSM18, PMW19, SPH15, VB19]. **Birkhoff-James** [KL19b]. **birth** [CLM19a]. **birthday** [BBF19]. **bisexual** [DOR16]. **Bishop** [DGK+17]. **bisolvents** [CP17]. **bisymmetric** [JS15, SW18b, SW18a]. **biunimodular** [FR15]. **bivariate** [Liu17, Ple17]. **Blaschke** [DGSV17]. **blind** [Win16]. **Block** [AMNR18, DPV19, ELN18, FS18a, APT17, AL19b, BJ16, BDLM16, BFD18, BDFR15, BDP+18b, CL19, CGMSR15, Cho17b, dMGC19, GHK17, GLRT18, Had17, Hay19, KS15a, KLL19, KL17, KM16, Lee15a, LZ17b, LGZ18, LSM16, MV16, Mas17, MN19a, Mic16, NZZ15, Nie19c, NK18, PCL15, PQY15, RRT16, SNDM17, SP16, Sot17, Ulu19, You15, YWD16, Zha19a, SK17a]. **block-augmented** [Mas17]. **block-matrix** [Hay19]. **block-monotone** [Mas17]. **block-shift** [APT17]. **block-symmetric** [BDFR15]. **block-term** [dMGC19]. **block-Toeplitz** [BDLM16, NK18]. **block-triangular** [BDLM16]. **blocked** [SY16b]. **blocks** [AMNR18, Hir18, Kal16, Sot17, Ulu19]. **blow** [LM16a]. **blow-up** [LM16a]. **Board** [Ano18-27, Ano18-28, Ano18-29, Ano18z,

Ano15a, Ano15b, Ano15c, Ano15d, Ano15e, Ano15f, Ano15g, Ano15h, Ano15i, Ano15j, Ano15k, Ano15l, Ano15m, Ano15n, Ano15o, Ano15p, Ano15q, Ano15r, Ano15s, Ano15t, Ano15u, Ano15v, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano16k, Ano16l, Ano16m, Ano16n, Ano16o, Ano16p, Ano16q, Ano16r, Ano16s, Ano16t, Ano16u, Ano16v, Ano16w, Ano16x, Ano16y, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano17g, Ano17h, Ano17i, Ano17j, Ano17k, Ano17l, Ano17m, Ano17n, Ano17o, Ano17p, Ano17q, Ano17r, Ano17s, Ano17t, Ano17u, Ano17v, Ano17w, Ano18a, Ano18-30, Ano18-31, Ano18-32, Ano18-33, Ano18-34, Ano18-35, Ano18-36, Ano18-37, Ano18-38, Ano18-39, Ano18-40, Ano18-41, Ano18-42]. **Board** [Ano18-43, Ano18b, Ano18c, Ano18d, Ano18e, Ano18f, Ano18g, Ano18h, Ano18i, Ano18j, Ano18k, Ano18l, Ano18m, Ano18n, Ano18o, Ano18p, Ano18q, Ano18r, Ano18s, Ano18t, Ano18u, Ano18v, Ano18w, Ano18x, Ano18y, Ano19a, Ano19-27, Ano19-28, Ano19-29, Ano19-30, Ano19-31, Ano19-32, Ano19-33, Ano19-34, Ano19-35, Ano19-36, Ano19-37, Ano19-38, Ano19-39, Ano19-40, Ano19-41, Ano19-42, Ano19-43, Ano19-44, Ano19b, Ano19c, Ano19d, Ano19e, Ano19f, Ano19g, Ano19h, Ano19i, Ano19j, Ano19k, Ano19l, Ano19m, Ano19n, Ano19o, Ano19p, Ano19q, Ano19r, Ano19s, Ano19t, Ano19u, Ano19v, Ano19w, Ano19x, Ano19y, Ano19z]. **boards** [War17]. **Bohnenblust** [CJRMF+15]. **Bohnenblust-Hille** [CJRMF+15]. **Bollobás** [DGK+17]. **Book** [Bru16a, Tsa16b, Zha15a]. **Boolean** [ABC+16b, Kim15b, PS18a, PRS19]. **border** [Zui17]. **bordered** [DE15]. **borderenergetic** [DLG16]. **Bordering** [OvdDV17, CN17a, CN17b, CN18]. **borderline** [FM19b]. **Bott** [KC16]. **bottleneck** [Mol18a]. **bound** [ARR18, AL15, ARS17, BL18a, Bal15c, Ber18, BH16a, CLF18, GRS15, HW15b, IL17a, LCWZ19, LwW16, Mol18a, Obo19b, Vec16, WF19, Xu17b, ZWS18]. **boundaries** [AGV17, BS18b]. **Boundary** [CN19b, BL15, CN15, DDSC+16, EHK16, EH18, GM16a, HJW19, Piv19, YLB15]. **Bounded** [Pan19a, AB19, CM19, DDL17, DD17b, GSP16, LT12, LT16a, LZ16c, PSG16, PSM18, dSP16a, dSP16c, dSP16d, Pep17, RMS16]. **Bounding** [Sta19, AO18]. **Bounds** [ALMZ+19, DdSJdFDV15, FW17, Gil16, HHL19, HMNP15, Lia17, LL18a, Mel16a, OP16a, Pep17, Rum19, VV18, WM17a, dlPJG18, ACT16, AR16, ACRR15, AGRR16, AdFRR18, ADLR19, AP15a, BG15, BaHOS15, CR19b, bCR18, CLL15, CIY15, CL17b, CLS18, CJ16c, CJ16d, DHHZI19, DV19a, DR18, DM18, Drn19, EA17, GM17, IGW17, Ken16, Lan15, LLV15, LWY16, LZM16, Lot15, MR17b, MS17b, MHS15, OVW18, Rod19, SZ23, SK17b, Sku17, TLL15, TWM16, WZL17, WLL19, WZW19, WWC18, YZL15, vDS16, ELN18]. **Braess** [HK19b]. **Brauer** [BJLD17, DLB18, LL16a]. **Brauer-type** [BJLD17, DLB18, LL16a]. **Bregman** [MPV16]. **bridge** [CDM19]. **bridging** [LS17a]. **Brill** [Gua18]. **Brouwer** [GP18, Che18b, Che19a, GAP16, HT17]. **Brown** [BŚS18]. **Brownian** [MMS16]. **Brualdi** [BWSZ15b, LL16a]. **Brualdi-type** [BWSZ15b, LL16a]. **Bruhat** [dCFF17]. **Brunn** [Liu16a]. **bundles** [DFK+15, EM16, Gal17]. **Bures** [Mol18b]. **Butson** [EC19]. **butterfly** [LZSD17, LZSD18]. **butterfly-like** [LZSD17, LZSD18].

C [COS18, BCP16, CP16a]. **cactoid** [HC15]. **cactus** [Gal17]. **cages** [Fil18]. **cake** [CA19]. **calculation** [PW18]. **calculus** [Nev18]. **CAM** [Bru16a]. **Cambridge** [Bar15]. **Can** [dCdSA15, Nom16]. **CANDECOMP** [KL18b]. **CANDECOMP/PARAFAC**

[KL18b]. **Canonical** [BBdH18, DD17c, LS15b, AEKP16, BTW16, BGSS18, CXLF16, CNX17, CW17, DFK+15, FdC15, GLAdS19, MN19b, Rad17]. **Carathéodory** [BFMK18, IL17a]. **cardinality** [CRVSS19, MMR17, Yor17]. **Carlen** [Bek16]. **Carleson** [DPS19]. **Carlitz** [KT19]. **Carlo** [WC15]. **Cartan** [HL17a, HL18, KLL16, LL19, MM19a, PR19, WZ17b]. **Cartesian** [BK19, KMY15]. **case** [ACS19, Bar17a, BDK+17a, DV19b, EHHL17, lHS16, Mat15a, Pan15b, ZHC16, dFRS16]. **cases** [MP17]. **Catalan** [HS17, YDHX18]. **category** [MVPST19]. **Cauchon** [AAG+18]. **Cauchy** [JM16, JKP16, Kal18, LL16b, Lyn15, MMP17, Mel16b]. **Cauchy-like** [Mel16b]. **causal** [FKD15]. **Cayley** [AT15, BBM19, BBS16b, CFH19, KM15b, KLW15, LZ15d, RB16, SLY17, TFC19]. **Cayley-type** [RB16]. **cell** [KT15]. **cells** [GMLT19]. **Central** [Yin18, BDDO16, EF17, EF19, Lék16]. **centrality** [AM16b, BFM19, HKS19]. **centralizer** [AGP+17]. **centralizers** [Han19a, dCDFK17, dCDFK18]. **centralizing** [Wan16c]. **centrally** [Mig16]. **Centrosymmetric** [JRS19, Bur15]. **certain** [AKYD16, Ege16, EEV17, FKPS18, Hia16a, Joe16, JMP17, Kol15, KLW18, Lin17a, Liu18, Lot15, Mol19, NP15c, PP18, Sch17, She17, Tab16, VHB18, vWZ17]. **certificate** [CJ17c, Dic19]. **Cesàro** [AB19]. **chain** [AAS16, BK17c, Cho19, WC15]. **chains** [BLPT15, BCF+18, Hun16, Hun18a, Hun18b, JLT17, LZ15a, Mas17, MP16b, NP15b, SY16a, Sku17, Ter18, VB18, Vas15]. **Change** [DFK+15, JST19, VSV18]. **changing** [GM15, SV17]. **channels** [FL16, HJ19, LPPZ19, Lev18]. **chaos** [BCMASS15]. **character** [Che15b]. **Characteristic** [AW15a, BLdS16, Ben18, BCS16, BBFF17, BCF+16, CCD19, CK15b, EV15, FOvdD16, FMR18, HY18, HZ19, HZ17, KMS17b, LL18b, MW15, MMR16, MMR17, MMR18, Niv15, Shi16f, WW18, WLWZ19, ZGW16]. **characteristics** [AKPS19, JKKL15, KAPS20, Koz16, MNTX16]. **Characterization** [BJKR17, DP16, GLZ16a, GSSvdD16, HT18b, JT18b, Kim15b, LD16a, MWT16a, QH15, RW17, Wój19, ZXW19, Abi19, CRRY15, CLR+18, DGCC16, DP18, DP15b, DPJ17, lFwW16, GGMPC15, GH16a, GX17, HvD18, HJW19, Hoa15, KY18, LZSD17, LZSD18, LWCL19, MHL15, MM16b, NS18, PP15, SW18a, zSqST15, TSH16, WM17b, XvdBvdLS15, YCL17]. **Characterizations** [HM17a, Mol19, RS17b, AyLPS18, ABDN18, BP15, DDF18, He15, He18, LL15b, LWC18, SBB15, Sol19, UYY17, WZ15, ZSWB16]. **Characterizing** [BDMB19, CJ16c, FMR19, LZ15b, HK19a]. **characters** [AR15a]. **Charles** [Bar15]. **Chebyshev** [Guo19, KMM17, Yam15]. **Chevalley** [MMR18]. **Chief** [Ano18-44, Bru15, Bru16b, Bru17]. **Chip** [BMZB18]. **Chip-firing** [BMZB18]. **Choi** [GKR16]. **Cholesky** [LWY16]. **Cholesky-like** [LWY16]. **Christoffel** [AM15b]. **Chromatic** [KM19, AL15, FCL+16, KNY15, Tom15, vDS16]. **circle** [Cas19, IR19, MS15a]. **circles** [Rum19]. **circuits** [MT15]. **circulant** [AT15, AMNR18, Hil17b, Joe16, KK17, Lee19a, NW19, Nie19c, PSZ15, PS18b, QWC15, RR18b, San15, San18, SB18, TG19]. **circulants** [DM16b, Sbu17]. **class** [ASMN17a, ASMN17b, AMR18, AMG19, BG15, BPP16, BR16a, BHP17, CX17, Chu19, CM16, FPGPV17, Hou15, HSTW17, JLM18, uIKF15, KY18, LDL18, MI17, Min17, Mir18, Nob16, ÖK18, Ris16, RBKA16, Sam17, XXZ16, ZD15, Zhu19]. **classes** [AG15a, CHJM18, DGS18, EC19, Egg15, ETF18, Far19, FMR19, Gre18, GJLS16, LCF19, MR17a, Mar15a, Pan19b, Pel17, Rob19, Sha16, SS18, VLGS15, Ye17,

ZM16, dSRST17]. **classical** [HLG15, OVW18, Ota15, Saw16]. **Classification** [AMC18, BKRE18, BCS15, CMV17, CLOK13, DdFR16, EEV17, HA16, LMO16, LZ16c, MSSZ17, RE16, SWZ18, GSZ15, GSZ16, Gas19, HAM16, Sim18, YdB19, dFRS16, dFFRS17]. **classifying** [BP19b, FKPS18]. **clean** [BM16b]. **Clifford** [CK15a]. **clique** [FHJT19, HFS15, Yus17]. **clique-width** [FHJT19]. **close** [BCF+18, BaHOS15]. **Closed** [DKSV19, AYK17, Bie15, LS15b, LMX19, XS17]. **closest** [KT15]. **Cluster** [TLL15]. **Cluster-robust** [TLL15]. **Clustering** [BCF+18, EB17, Bai18, Est16]. **clusters** [CR17b]. **clutter** [MFdM15]. **CMV** [MS15a]. **Co** [Bru16a, Tsa16b, Alf18b]. **co-rank** [Alf18b]. **coadjoint** [BC15a]. **coarse** [KN16]. **cocycle** [Ong18]. **code** [LA16]. **codes** [AGP+17, ANP16, BDMB19, CG16, CG19a, CLHL15, CMPZ18, DGGP18, GZ19, GR16, La 16, LCF19, Ouy17, Pud16, SSS15, TZK17, TZ19]. **codimension** [MS19, RZ17]. **coefficient** [BDDSC17, PRS18]. **coefficients** [BS15c, BF17a, Ben18, CLR+18, JLM18, LG18, Sug17, TH16a, WZZ19]. **Coffey** [SSCS16]. **cognitive** [Dog18]. **Coherence** [CKL17, RGPH16]. **Coherent** [DD16b, GGMPC15, Xu17a]. **Cohomologically** [BCS16]. **Collatz** [GH16a]. **collections** [HJ16]. **Collocation** [JKP16]. **Collocation-quadrature** [JKP16]. **color** [AT15]. **colored** [Kal16]. **Colorings** [KL18a]. **colourful** [BFMK18]. **column** [SS17b]. **combination** [Kis15, XX12, Ziz16]. **combinations** [KP17]. **Combinatorial** [ACD19, Nik17a, BR18, CJ15, CJS16, EJ19, MR19, Ser15]. **Combinatorics** [AMPT16, LMP+17, AM16b]. **Combined** [BGGS16, Mat15c]. **cominuscule** [MM15a]. **comments** [AdF19]. **common** [CKM16, Gór17, GX16, GX19]. **communicability** [DHHZI19]. **community** [FT18]. **commutation** [Nie18]. **Commutative** [BS19b, AM15a, AA17, GPI18, GMM16, KM19, LZ15d, OW17, SNDM17, Ser16]. **Commutativity** [Pan19b, Pie18, SB15]. **Commutator** [GH15, CL17b]. **Commutators** [SB15, CL15b, GW17a, Hou19, XCJ18, dlCdR17]. **commute** [BFFN16, Kis15, XX12]. **Commuting** [Bou16b, CKT19, Shi18a, Wan16c, BF18a, BS19c, BKS15, BKPS17, BKSP23, CM19, CJW19, DBK17, FKPS18, GMM19, IKVZ18, KS17, LdlP15, LY17, Mig16, MT16, QH15, Sha16, aHRT15]. **Compact** [ABM16, CN19a, JLM18, LWC18, PS19c]. **compactly** [AKPS19, KAPS20]. **Companion** [EKSV14, EKSV18, BM16b, GSSvdD16, Lee15c, VV18]. **compared** [QKP16]. **comparison** [ABD19, DU16a]. **Compatible** [BKS15, BKSP23, LT19a, dSP15, dSP16e]. **competition** [FGS+16, Kim15b]. **complement** [AG16, AAMM18, CGMSR15, Row18, WYL19]. **Complementarity** [JS16, See18, Bal15a, Bal15b, BP16a, CFNP17, DN16, DN18, WLL19, XXZ16, wXL14, wXZ19, ZZR15, ZLQ16]. **Complementary** [FJT17, Szá16, CCdFV18]. **complements** [CMM19, LD17a, Row15, YCL17, YZLC18]. **completable** [SMBDK16]. **Complete** [BSMSZ19, HK19b, BK18, BES19, CI15a, CGSZ16, DP18, DD17b, LNW17, NS18, Obo19a, Obo19c, Shi19, VSV18, WYL19]. **Completely** [Gow16, LT12, LT16a, Sal16, Zha18a, BDS15, GdLL17, SSV17, DDMV16, XLQC16]. **Completion** [Ber17, Dod16, MFdM15, BA15, CMQV16, DH15, Dod17]. **completions** [Cal16, CJ16b, JLD17, PCI15, VQ17]. **Complex** [HP15, LWX17, AM19, AGQ19, AS17, AP15a, BFY18, BH16a, BSS17, Bün17, CDM19, DL16, ET18, Fik18, FM19b,

FKM17a, GT16, Gór17, Hut17, Kar16, Mag16, Mat15a, Nev18, NW19, PM15a, PR19, QWW18, RGPH16, SK17a, Tan16b, TCD15, dlCMP17a, dlCdR17]. **complexes** [LT18]. **complexity** [BC16a, FMY16, HI16, KMM17, RR18a, VGG17]. **component** [FK18]. **components** [BFFN16, CLT15, DDL17, DBK17, ÖK18]. **componentwise** [DS18b]. **Composition** [AL19a, BMN16, HA15b]. **compound** [AGN18, APR+17, BSS16, FK18, RS17b]. **comprehensive** [BBT15]. **Compressed** [KKLP17, BÓ15, Fli16]. **compressing** [BE15]. **Compressions** [PS19c, He18]. **computation** [BFM19, CRX15, Hun16, Hun18a, Miy19, Sim19]. **computations** [BP16b, Win16]. **compute** [BV18a, Pas19]. **Computing** [AMH11, BDLM16, DU16a, Eld15, FI19a, Fer15, HR17, Hir18, KL18b, MMR17, Saw16, Fis17, SK17a, SSH15, SZW16]. **Concatenated** [DGGP18]. **Concavity** [Hia16a, FS17b]. **Concentration** [Bar16b, Ngu18, FL15]. **concerning** [AKYD16, Hil15]. **Concini** [FH19]. **Concise** [OBRA15]. **concrete** [Uch15]. **Condition** [ME15, Van17, WYL15, ABD19, Ben16, CC17a, DR16, DS18b, Fli16, LS17b, Nie19b, Sch17, Zim15]. **conditioned** [Bar16b, NSCV16]. **conditioning** [FR16]. **conditions** [Bar17a, CYD19, DDSC+16, DD17c, ES16, EH18, FZL+17, GM16a, Gu16, Li15a, LX17, LSX15, MPS17, PM15a, ZLG15]. **cone** [Bal15a, BP16a, CCCNT19, CFNP17, FG17, GR15, Gow16, HC19, KOST15, Lee19b, Ser15]. **cones** [BFN15, BMZB18, GP19b, GJ18, IL17b, JG16, JL16b, KLL17, Kut18, Sol18a, Sol19, Zha18a]. **Conference** [CFH+16, GPW15, GHPS19, ET18, TG19]. **configurations** [BF19b, FGG+18, Xu17a]. **congruence** [BGSS18, BHSS18, DFK+15, Dmy16, Dmy19, Egg15, YZZ18, dlCF16]. **Congruences** [Sbu17, Sim19]. **coninvolutory** [AMR+16]. **conjecture** [AB15a, AKYD16, Bah19, Che18b, Che19a, CL15d, Das18, DDF17a, DK16, eFLYL15, GAP16, GP18, Gho16, GO18, GLMS18, HT17, KM19, Koz16, LOS19, Lin15a, LMP+17, Riz19, SY16a, Shc16, XS18, YQS16, AA19, BS16f]. **conjectured** [AL15]. **conjectures** [BCJ+16, Das15, TWR15, Zha17]. **conjugacy** [Pan19b, VLGS15]. **conjugate** [DMG17, KR17, Lin15b, Nev18]. **conjugate-normal** [Lin15b]. **conjugation** [Bik19]. **Connected** [LM16c, CLT15, COvdD16, DPR19, DS19c, GWL+18, GTL+18, HSS16a, JMM16, LLL15, NLWJ18, PS15, SS17a, See18, VK19]. **connectedness** [GJ18]. **Connecting** [ES16]. **connection** [CHB15, DGSV17, RS17a]. **Connections** [GHPS19, CJ17a, Nie15b]. **Connectivity** [ZLG17, AAMM18, Das18, Gu16, HXL19, Kol15, NLW18, O16, Row15, XSW19a]. **consensus** [VK19]. **Conservative** [KLP15, Geh15]. **considerations** [AAC+15]. **consistency** [Shi16b, XvdBvdLS15]. **consistent** [BMS15]. **constacyclic** [CLHL15, La 16]. **Constant** [PRS18, BBH16, BC17a, EM16, MMM19, PV17, WDV17]. **Constant-coefficient** [PRS18]. **constants** [BCKL17, Nun17, Reb19]. **Constrained** [CMQV16, DOR16, OS17, Rak17, TD15]. **constraint** [LSM18, MT15]. **constraints** [BT17a, DAG16, LPPZ19]. **construct** [LMPM17]. **constructed** [Mir18]. **Constructing** [CR18a, CJW19, CJ17d, DDV16, WC15, ATM18, BH16a, MLW15]. **Construction** [HHL15, JCW19, LS15c, MM15b, BBM16, CW17, DGGP18, FdC15, Gór17, Hey17, MW15, MR17a, PS17]. **constructions** [FJMP15, GF17, LA16, HL17c, Pud16]. **contain** [FJKM18]. **containing** [AMG19, FJ19, Gre18]. **Contemporary**

[Bru16a]. **Continuity** [CG19c, Gol17, AB15b, BP16a, GMW18]. **Continuous** [BS19c, Cos16a, Mas17, ZH17, Zhu19]. **Continuous-time** [Mas17, ZH17]. **Contour** [Wim16, Van16a]. **contracted** [CEM19, XCJ18]. **contraction** [McK18]. **Contractions** [BC15a, LPW16]. **Contractive** [AKS17a, AKS17b, LNW17, LCNZ19, Lin16b]. **contribution** [Geh15]. **control** [Bel16, BTN+18, Ste15, BCMASS15]. **controllability** [AG15a, TD15]. **Controlling** [Yas16]. **convection** [BDDSC17]. **convection-diffusion** [BDDSC17]. **Convergence** [CN19a, GCC18, JMRV16, KR17, OZ15b, SSF16, BM17a, BW18, BMS16a, CGSC19, DHW18, GKS18, Guo19, KH17, Sch16, SLY17, ZZR15]. **convergent** [Ais18a, Ais18b, EE16, JCW19, QWW18, Sku17]. **converse** [Lev15]. **Conversions** [EG19]. **Convex** [BKNS17, EE15, Han19b, BGCMASS19, BU18, CW18b, EM15, Eve18, KP17, Naj17, RW17, SXD16, Vir19, WH19b, ZC15]. **Convexity** [Dym16, JK15, LNT16a, Sab16, Bek16, CFL16, FNX19, Kum19, Nor18, Sab18]. **convolution** [ABC+16b, Ziz16]. **convolutional** [ANP16, CLHL15, DGGP18]. **convolutions** [RLP19]. **coordinate** [KRZ+18]. **coordinatization** [Lax16]. **Copositive** [Hil17b, SM16, SM18]. **copositivity** [Dic19]. **coprime** [AMZ16, Lie18]. **corank** [GSZ15, GSZ16, SZ17]. **corank-two** [GSZ16]. **Core** [EB17, CMV19, HPZ18, HPZ19, JS19, KY18, NW19, WL16, Wan16a]. **Core-EP** [Wan16a]. **core-nilpotent** [JS19, WL16]. **Core-satellite** [EB17]. **cores** [GT17]. **corner** [bCR18, ZMT19]. **corona** [BS17, LJK16]. **coronas** [ABC+16a]. **correction** [WP17, Zas16]. **correlated** [Sma15]. **correlation** [CPZ16a, Tab16, iT16, Zim15]. **correspondence** [GPI18]. **Corrigendum** [ASMN17a, Ali20, Ano16a, AG20, Bal18, BKSP23, DIPR18a, Duk15, EKSV18, FJS21, GP18, GWL+18, GQ26, Hou20, Kis15, KHI16a, LMO16, LT16a, LLS17a, LZSD18, PW20, SM18, wXZ19, Yua15, ZL15a, dCDFK18]. **cosets** [LA16]. **Cospectral** [CHJM18, DF16, WQH19, AHMM18, BH16b, Hey17, LMT19, ZLS17]. **cosquare** [GMP15, GMP16b]. **cost** [CYD19]. **Coulomb** [BS18a]. **Coulson** [ALOR19]. **countable** [JLT17]. **counterexample** [Bah19, Shi16c, Shi17a]. **Counterexamples** [SY16a, FJS17, FJS21]. **Counting** [FMM16, Mat15b, PD17, Ram16, VLGS15, GRV16, MT15]. **counts** [KS15b]. **coupled** [HAWM16, Lee19b]. **coupling** [CRC17]. **Covariance** [CLZ+16b, GH16b, KRZ+17, LHC15, MNT19, iT19, Wan16b, Yin18]. **cover** [PF18, WM17a]. **Covering** [WH19b]. **coverings** [FHH15, MC19]. **covers** [CGSZ16]. **Cox** [Sim19]. **Cox-regular** [Sim19]. **Coxeter** [GSZ15, Gas19, Mró16, MdlP16, Sim18, dlPJG18, dlP18]. **Coxeter-Dynkin** [GSZ15]. **CP** [BDS15, XCQ18]. **CP-plus-rank** [BDS15]. **CP-rank** [BDS15]. **CRAIG** [HKP17, TW16]. **criteria** [DIPR18a, DIPR18b, DFKS17, FKS16, SFW18]. **criterion** [FHS17b, SS15a, Sam17]. **Critical** [BBT15, Gae16, GP19b, DHS18, FCL+16, HMPT18]. **crossings** [dS19a]. **Crouzeix** [GO18]. **CS** [CRX15]. **cubature** [BBM16]. **cubic** [CLR19, Jel18]. **cumulant** [OBRA15]. **curvature** [NR16a, Opo16]. **curve** [CN15, LHC15]. **Curves** [Ber18, ÁVAK+19, BGCMPB15, CS15a, CN17b, CN19b, LP18]. **cut** [Alo15, CA19, DV19a, Nik16b, WWT18, vDS16]. **cut-norm** [Alo15]. **cycle** [DF15, DF18, DR19, HFS15, Liu15, PF18, WZW19, dS19a]. **cycle-clique** [HFS15]. **cycles** [ABDN18, Ash19, GH19, MWT16a, Mac16,

NY15, WZZ19, Yua14, Yua15, ZLG15]. **Cyclic** [BGV17, BM18, BMR17, CLUP17, Dal17b, Far16, MP16b, Ziz16]. **cyclomatic** [HHL19, TH17]. **cyclotomic** [CFW15, LA16].

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Che18c, Dah15b, DMG16, DM16a, DG18, DMS19, DL15, GCP18, GS19a, GW17b, GRS15, HLSP17, HT17, Ito17, JTT15, LMZRZ18, LLL15, MMM19, Mró16, Nik16a, Nik16c, NA17, Obo19b, PG15, VSV18, WM17a, WZZ19, WF19, WWC18]. **Engel** [BRN18]. **enhanced** [BCF+16, FOvdD16]. **entangled** [GW19a, Poo15]. **entanglement** [Car17, HK19a, JP18]. **entries** [Alf18a, APS18, DdSJdFDV15, GP19a, HLPS19, Hil17a, HN18, HK18b, Nom15a]. **Entringer** [FHS17a]. **entropies** [DHL+17]. **Entropy** [HYH15, FS18b, KP17, KKS18, SCD17]. **Entropy-preserving** [HYH15]. **entry** [AG17, HZ15, VQ17, VQ19]. **entry-wise** [AG17]. **Enumerating** [OL16]. **enumeration** [KS19]. **envelope** [APT17]. **envelopes** [Ber18]. **EP** [Wan16a]. **Equality** [GW18, GWW19b, GWW19a, BT17a, LL15b, SR19]. **equals** [MWT16a]. **equation** [CLM19a, CGM17, DI16, IT18, LMS15, LM19, SS18, WYL15, Wój19, WP17, DP15b]. **equations** [Ais18a, AHV19, BB16a, BDDSC17, BHP17, Bou15, CN19a, CFNP17, DIPR18a, DIPR18b, DP16, DPJ17, DFKS17, Dra18, EJ19, EM17, FI19a, FL15, FKS16, Gal17, Gua18, GL16, HK18a, HAWM16, HS19b, JKP16, KU16, MEMM17, Mys16, PMB15, RW16, SR18, SNP16, Shi16b, UZ19, WT18, Wim16, Zue18, dS18a]. **equi** [ET18]. **equi-isoclinic** [ET18]. **Equiangular** [CGSZ16, FJKM18, Gre18, BFG+16, BF17b, RNC17]. **Equidistant** [GR16, Pol19]. **equilibrium** [SSF16]. **equimodular** [CK19]. **Equitable** [BFW17, JZZ18, AC15, FSSW17, FSW19, YYSX19]. **Equivalence** [Bar17b, BBdH16, BBdH18, BS16f, BS18c, CJS16, Chu15, Had17, Jin15, Moh16, NSCV16, dlCF16]. **equivalent** [BR16a, NS15a]. **equivalently** [dCdSA15]. **erasure** [FJMP15, LS15c]. **erasure-robust** [FJMP15]. **erasures** [CLS18]. **ERES** [CKM16]. **Ergodic** [BBMP19]. **Ergodicity** [Sab19, AB19, RH15]. **Erratum** [KAPS20]. **Error** [MM16a, WZL17, CW17, CJ16c, CJ16d, Ema18, Fis17, KL19a, Ma15, WLL19]. **Essential** [NSCV16, SS15c]. **essentially** [ÁKM17, SW16]. **essentially-invariant** [SW16]. **Estimability** [BFFN16]. **estimate** [Fre18, Nun17]. **Estimates** [Rum18, RB19, Duk12, Duk15, Hua19, KRZ+17, OZ18, wXjMZL19]. **Estimating** [PSZ15, Wol18, FL15]. **Estimation** [CS15a, FM16, LHC15, SH15b, BBP19, BSS17, DR16, DLM15, Ema18, Fis17, KRZ+18, LLH17, PCL15, WYL15]. **estimator** [LLH17, iT19]. **estimators** [RBKA16]. **Estrada** [APR+17, CR19b, HLW15, HW15c, LZ15b, Rod19, ZW16]. **etc** [Bar15, JS18b]. **ETFs** [RGPH16]. **Euclidean** [Alf18a, BD15a, BK19, ET18, Fie15a, Gow17, GJ18, JG16, JG17, Jia15, Kim15a, KSTX15, KT15, KB15, Kwo16, PR18a, SSS15, TZK17, TW16]. **Euler** [Ern18, He16a]. **evaluated** [AEV15, CW16a, MO16]. **evaluating** [Fas19]. **evaluation** [Sas18]. **even** [DS19b, Fil18, FKM17a, FKM17b, uIKF15, NY15, WZZ19]. **eventually** [SA17]. **Every** [dlCMP17a, TXZ18]. **Evolution** [CMV16, CMV17, CKM19, DOR16, EL16, HA15a, HPSS19]. **exact** [SSS15]. **exactly** [HKLQ16, HHL15, MM17a]. **Examples** [Gol16, MM17c]. **exceed** [MHL15]. **exceptional** [Zus17b]. **exchangeable** [KRZ+17]. **excluded** [BS16e]. **exist** [GLZ16b]. **Existence** [Mon17, BPR17, BÓ15, DS17b, Fil18, FJ19, dMGC19, HHR16, NS15a, Sam17, ZLG15, ZMT19]. **Exotic** [KOST15]. **expander** [Lev15]. **expansions** [BCKL17, LG18, dS19a]. **expected** [DHLT19]. **Explicit** [Ban16, BG15, EJ18, Guo19, SR18, DDL17, DSCD17, FKRS17, Nat19, Pud16]. **exponent** [BS16b, HYY15, Iop18, OQ18]. **Exponential** [AMH11, HM17b, Tan19,

AGHN18, BDLM16, BMO15, CJB18, Dra18, Fis17, FL15, Obe16, PPZ19]. **exponents** [ANAPSR17]. **exposed** [Zha18a]. **expressed** [DMQ19]. **Expressing** [HLZ17, Hou20, Ste18]. **Expressions** [CGMSR15]. **Ext** [CG19b]. **extendability** [BGdCCMSS17]. **extendable** [CRVSS19]. **Extended** [Nie18, AG16, BW19, CEM19, LHC15, Nom16, Sch16, WHG17]. **Extending** [JZC19, PP15, Shi16d]. **extensible** [dCdSA15]. **Extension** [Zha15b, ZH17, Ali20, CS17, DP15a, HAD19, LS18a, Nie19b, PQY15, Ric19, Row18, VGG17]. **Extensions** [CTZ19, FSSW17, SST15, BBM16, EF17, EF19, KVP19, KSVW17, MM17b, NT19]. **exterior** [Mag16]. **extinction** [GCQX15]. **Extracting** [You15]. **extraordinary** [FM19b]. **Extrema** [Nik15]. **Extremal** [AdlPR16, Kri15, RMS16, SUY16, BZ16c, BM19b, BDK+17a, GP19a, Hut17, LD16a, WZ15]. **Extremality** [GW16a, GW17a, GL19, Che19b]. **Extremals** [Ser15]. **Extreme** [HLM17, NAS18, Eve18, FL16, PP18]. **Extremizing** [Kal16].

facets [AK17]. **facially** [Zha18a]. **factor** [LZ17c, WFS19, Yor17]. **factoring** [FR18]. **factorisations** [ABP15]. **Factorization** [CP17, Kur19, Mar16, AAG+18, Bot16b, Bur15, Chu16, DEH16, LMS15, LWY16, LSM16, LSM18, MV16, SP16, ZSQZ19, ZZC15]. **Factorizations** [BJ16, Lev18, SG17a, AAC17, Hua15, LW15, SSV17, TVD15]. **factors** [CQ15a, DS15, FR16, Ram17]. **Failed** [AJPS16]. **Failure** [DPS19]. **false** [Shc16]. **families** [AN17, ABGJR+18, BmBCC17, BGCMASS19, CLHL15, CM19, DGGP18, DR19, FJ19, FL15, GMO19, Hru16, Kol15, LD17c]. **family** [APR+17, BCC+18, BS16e, BH16b, CPS17, COS18, CMPZ18, ET18, GSSvdD16, PRS19, SSH15, UWYY15]. **Fan** [HRM18, Pet15, SWB19, TY15]. **Faria** [ACPR15]. **Farkas'** [CS15b, Alf15, CJ17c, DP15a, LX17]. **Farkas-type** [LX17]. **farthest** [GMLT19]. **Fast** [LL16b, Miy15, BP19a, JKP16, KP19]. **fat** [KLY18]. **FEAST** [Yin19]. **Feedback** [DS19c, BR19, Bel16, NN19b]. **Fejér** [Chu16]. **Ferrers** [Bal15c, LCF19]. **few** [JZ18, OQY17]. **fewer** [BF15]. **Fibonacci** [HHJM15]. **fidelity** [LPP15]. **Fiedler** [AB16, ARSB18, BDP+18b, DA19b, DA19c, GP19a, LZ17b, PD17, RRS16]. **Fiedler-like** [AB16, BDP+18b, DA19c]. **Field** [HK19c, BZ16a, Bal17b, Bal18, Bie15, Cox15, FKS16, JSST16, JLDS18, LS15b, MM17b, Pel17, Ram16, Sha16, Sin17, UG18, Van16b]. **fields** [Bal19, BLdS16, BP19b, BC17a, Bre18, CM18, CFW15, CJK+16, HA15a, JKKL15, LS15b, Lie18, NT19, PW19, PW20, RFPS18, Shi18a, SH15b, WG15]. **fifteen** [HAWM16]. **filiform** [CLOK13, EF19, LMO16]. **filling** [BGCMPB15]. **Fillmore** [Bor17]. **filter** [CMV19, Van16a]. **filtering** [DLM15]. **filtration** [FH19]. **finding** [RV18]. **finitary** [CDH18]. **Finite** [BGOY15, LZ15e, MS19, NINS16, Yan18, AMZ17, AKR15, AK16a, AK16b, Bal17b, Bal18, Bal19, BLPT15, Bre18, CM18, CDFK19, CW15a, Che15b, CJK+16, Cos19a, DHLT19, Far16, Gol17, Gór17, HA15b, IM19, JT18b, KKLP17, KT19, LS15b, LT16b, LH17, Lie18, LZ15d, Man19, MS17a, Mig16, OW17, Pan19b, PMB15, PS19e, PW19, PW20, QWW18, Ram16, RFPS18, RE16, Row15, Sab19, SR18, Sha16, UZ19, UG18, VB18, Vir16, WG15, Wol18]. **Finite-dimensional** [LZ15e, Yan18, AKR15, AK16a, AK16b, CDFK19, CW15a, Gol17, LT16b, OW17, RE16]. **finite-time** [PMB15, QWW18]. **finite-valued** [KKLP17]. **Finiteness** [Egg15, Koz16, NW19]. **Finsler** [Cim15]. **firing** [BMZB18]. **First** [PM15b, BK17c,

Chu16, GHPS19, Hun18a, Kal16, KT17, LDZ18, Lom17, OQY17, XWD18]. **Fischer** [CTZ19]. **fitting** [HPZ19, UM16]. **five** [HA16]. **five-dimensional** [HA16]. **fixed** [CMQV16, DD18, FG17, JKS15, JKP16, KLL16, KKY16, NLW18, PS15, RR18a, SJD16, You15]. **fixed-point** [FG17]. **fixing** [KLW15, KLW16, KLW18]. **flag** [BF19b]. **flags** [Lax16]. **Flanders** [dSP16b]. **Flat** [KY15, BBM16, JSST16, SS17a, WH19a]. **flattenings** [Hu15]. **flow** [DvSW18, Li15b, MGM17, Per18]. **flows** [Ban16, HL17a, VG18]. **fluctuations** [MNT19]. **fluid** [BDLM16]. **forbidden** [FdFdSDV18, Yua14, Yua15, NY15]. **forcing** [AJPS16, FMY16, KL19a, Lin16a, Lin19, TD15]. **forest** [JMPS18]. **form** [AEKP16, BBdH18, BLdS16, BTW16, BGSS18, BD19, CS18b, Cus17, DEH16, DFK+15, EG15, FM16, GLAdS19, Gir19, GBRS15, IW15, IGW17, Joe16, Li15a, MN15, Miz16, Nom15b, PRS18, Rad17, SZ23, Wój15]. **formal** [CJS16, GPI18]. **formalism** [MdlP16]. **formats** [YLB15]. **forms** [AAdFS19, BS18b, CR19a, CG19b, CXLF16, CNX17, CN17a, CFP18, CQS18, De 16b, GKR16, GLW17, HSTW17, IKR16, LS15b, MN19b, Ota15, Tok17, dFRS16, dFFRS17]. **formula** [AM15b, ACM15, ALOR19, BLdS16, BBM16, CDMP15, CUPW15, DKSV19, Hil18, LMPM17]. **formulae** [Ban16, OBRA15, XW16]. **formulas** [CM17, CJB18]. **formulation** [HPZ18, HPZ19]. **Forward** [SSB15a, MP18, Per18, BCMASS15]. **forward-backward** [MP18]. **found** [BH16b]. **foundations** [Gar17]. **four** [Ben18, BP19b, HH17, Pel17, TWR15, dlC15]. **fourfolds** [Jel18]. **Fourier** [BLdS16, KP19]. **Fox** [KL18a]. **Fractional** [Mat15a, SKC18, RW16, ZH17]. **Frame** [CC17a, CDFK19, LH17, BCKL17, LC19]. **framelets** [AKPS19, KAPS20]. **Frames** [CLS18, AW15a, BGOY15, BFG+16, BF17b, CH19, CFW15, CW17, DV18, FJMP15, FJKM18, HJ19, HL17c, LS15c, MRS15, MBB+18, NAS18, RNC17, RGPH16, WO17, Zas16]. **framework** [FM17, JLT17, OZ15b]. **frameworks** [Alf15, KS15b]. **Frechet** [Eld15]. **Free** [BdlCL17, HNS15, KRZ+18, Tan16a, ABM16, AL19b, CLR16, CD16d, GSZ16, Gho19, IKR16, JMRV16, Row16a, Shi15, Shi16g, ySpW17, SZ17, Zaj19]. **Free-coordinate** [KRZ+18]. **Friedland** [Tsa16b]. **Friedrichs** [LMX19]. **Frobenius** [CLZ+16b, FK16, GH16a, LT19b, Mon19, Tar18]. **Frobenius-norm** [CLZ+16b]. **Fucík** [LN18]. **Fueter** [ACS19]. **full** [SZW16]. **function** [AB15b, AMZ16, AGHN18, BS18a, BGCMASS19, CFL16, CPW17, DS18b, DSX15, Hun18b, JCW19, Kli19, KMS16, KMMS19, Som17, TH16a]. **Functional** [Ere16, Wan15b, Nev18, Wój19]. **functionals** [Gir19, dSP19a, Pop16b, SST15, WH19b]. **Functions** [MN19b, AB16, AL18, AL19a, ACS19, BKNS17, Bar17b, BBSS18, BGCMLSSS16, BEKS17, Bil19, BS19c, BU18, CPZ16a, ÇMP18, CR18b, CW18b, CRVSS19, CLP16, DR16, DDF18, DM15, FI19a, Fas19, Fay18, FNX19, FKM17b, FKRS17, GS16, HM17a, He16a, HNS15, Hia16a, Hil15, Hoa15, Hon18, IHM08, JMRV16, JG17, JS18a, JLM18, KM16, LT19a, MY16, MR17b, Mon19, NW15, Naj17, Nie19b, Pas18, RRT16, RV18, SR19, Sch16, Shi18a, dSN15, Skr17, SZ19, SS15b, UUG15, Van16a, Vol17, Yam15]. **fundamental** [AHV19, GZB19, lHS16, ZD15]. **Further** [AAG+18, BTN+18, DKPU18, LW15, YHY15, ZM16]. **Fuss** [HS17]. **fuzzy** [MP15b].

Gabidulin [TZ19]. **Gabor** [DV18]. **Gaddum** [EA17, HL19a, LOS19]. **gain** [LWX17, Ref16]. **Gale** [RT16]. **Galois** [GL15b, GL15a]. **game** [GR15].

game-theoretic [GR15]. **games** [GC19, Gow16, XvdBvdLS15]. **gap** [BGT+19, CCW16, Car17, Wol18, Zui17]. **gaps** [FCLP18]. **Gau** [CDR+19, Lee15b]. **Gauss** [BV18a]. **Gaussian** [FL15, FI16, Hoo19, PCL15, PQY15, PZ17b, SH15b, Zim15]. **gcd** [AYK17, AKYD16, AYK17, GW19b, HT18a]. **gcd-closed** [AYK17]. **Gelfand** [FH19]. **General** [DSCD17, FSW19, ABP15, BCM17, Bar17a, BBM16, CDR18, DL16, EH18, Hla15, KSMB15, KM18, Li15a, LX17, Miz16, RH15, SK17a, SZB19, Uch15, wXL14, wXZ19, ZLKB17]. **Generalization** [DFKS17, Roo19, AOK19, BEF16, Hia16b, HP15, KPRvdO16, Rao18, TW16, TG19, Vec16]. **Generalizations** [Liu16a, HS19a]. **Generalized** [BS18c, FT16, IK18, MT15, Zem16, ZZC15, AMPT16, AHV19, Bai18, BLdS16, Bar16a, BBS16b, CEM15a, CCW18, CK15a, CJ17c, CHT19, DA19b, DI16, DIPR18a, DIPR18b, Dra16a, DHW18, DGP+15, DM15, FuIKT16, FGS+16, FM19a, FX19, GSSvdD16, GH16a, HAWM16, HPZ19, Hua19, IR19, JT18a, JZZ18, KP17, Kim15b, Koo19, KSTY18, KMM17, LJK16, LNT16b, LLPS19, LZ15e, Ma15, MW15, MLW15, MS17a, MS15b, NN19a, Nie19b, Pep17, PF18, RD15, SMH19, SR18, SR19, SB15, TZ19, WM17b, XSW19b, XSW17, wXjMZL19, Yin19, YMZ19, ZH15, dCdSA15, BS16f]. **Generalizing** [SP16]. **generated** [FM19a, Jia15, JLM18, Kan16, KS17, KLW15, MS19, Pas19]. **generates** [RS18]. **Generating** [Mon19, SÖ16, AGHN18, BN17, CN15, CN19b, Vij15]. **generation** [RAAGA16]. **generator** [LMS16]. **Generators** [CS18b, Chi18, FH19]. **Generic** [DD17b, DD18, Mor17, SS15a, BC15a, Bou15]. **genericity** [BGdCCMSS17]. **geodesic** [BHML15, STZ15]. **geodesic-affine** [STZ15]. **geodesics** [WO17]. **Geometric** [BHML15, BC16b, HL17a, JS18b, KLL19, RH15, Tsa16a, DGSV17, EHN16, FS17b, FS19b, GT17, IKW16, KLL18, LPP15, MHA18, Nob16, NK18, Pep17, Zou17, Zou19]. **geometrical** [Fli16]. **geometries** [ABP15, CD16a, Hor17, IM19]. **Geometry** [ÁVAK+19, BPZ17, CRC17, Che15a, DvSW18, Fie15a, lHS16, Li15b, LM19, MHS15, Sar19]. **geometry/trigonometry** [CRC17]. **gerechte** [BL16]. **Gersgorin** [HW16]. **Gershgorin** [DeV19, Rum19]. **Gerstenhaber** [HO15, dSP19b, dSP19c]. **Ghorbani** [Riz19]. **ghost** [ME15]. **Gibbs** [RH15]. **Gilmour** [KÖ16]. **girth** [Fil18, LLT19]. **give** [Gal17]. **given** [BR16a, CJ17d, De 16b, DV19b, FdC15, HLW15, HSS16a, IKVZ18, JL16a, Kal16, KT15, LdlP15, LLT19, MS16a, Mon17, Pas19, Ram17, SÖ16, SUY16, TH17, WHG17, WZL15, XSW19a, XWL17, XWD18]. **glN** [FH19]. **Global** [LM19, CJ16d, Est16, KH17, NT19]. **globally** [JCW19]. **GLT** [Bar17b]. **GM** [WQH19]. **GM-switching** [WQH19]. **GMRES** [DHW18]. **Gohberg** [XW16]. **gons** [VGG17]. **Gorenstein** [Jel18]. **Grad** [Zha15a]. **grade** [DD18]. **Graded** [BY19, BFD18, BZ16a, BKRE18, CC16, CLOK13, CR15, LMO16, RZ17]. **graded-division** [BKRE18]. **gradient** [KR17]. **grading** [Zue18]. **Gradings** [CME18, KY17, RZ17, RE16, Zus17a]. **graft** [LZ16b]. **grafting** [HLSP17]. **Gram** [CA19, GSZ16, Sei18, Sim19, Yas16]. **Graph** [BK16, dSN15, YYMK17, ACT16, ARS16, AAMM18, AL15, AJPS16, AvdHS15, ALOR19, AM16b, AM18, AB18, BDMB19, Ben16, BPR17, BF15, CLT15, CD16b, Che18b, CLF18, CD16c, CGSZ16, COvdD16, DHL+17, Dal19, DM16a, DMG17, DR18, DT15, DHS18, EA17, FW17, GAP16, GP18, GCP18, GK15, Gho16, GRV16, HHL19, HFS15, HZ17, JT17, JLDS18, Ken16, Kob17, KMS16, KIS18, KMMS19, KLW15, KLW16, KLW18, KMM17, LOS19, LLL15, LL18b,

LWZ18, LHL18b, MWT16b, Mes17, Mig16, MMS18, MM15b, MS16c, Mon17, NS15c, Nik15, Nik16a, OS17, OP16b, Per18, PG15, Piv19, SW15, SAdFZ15, STW18, STW19, TNK16, TWR15, TW18a, VSV18, Wan15a, WM17a, WDV17, WH18, WYL19, WF19, WWC18, XLLS18, ZG18, Zho17, ZWS18, vDS16]. **Graphical** [SFW18, FZL+17]. **Graphs** [Alf18b, BFM19, CRS15, LS15a, MQTW18, TW17, dFNP16, AAB+16, AAG+19, AJO15, Abi19, AG15a, AyLPS18, ASMN17a, ASMN17b, AHMM18, ABH+19, AAS16, AAKS17, AT15, AAC+15, ACRR15, AGRR16, APR+17, ARS17, ALMZ+19, AB17, Ash19, AH16, AP15b, ABK19, BBM19, BK15, Bah19, BM17b, BK17a, BPP16, BPP17, BK18, BFW17, BS15c, BP15, BSS16, BZ16c, BBC18, BCC+18, BSMSZ19, BSP18, BK17c, BF15, BH16b, CR17a, CR17b, CDR18, CPR18, CCdFV18, CR19b, CLL15, CLZ16a, CL17a, Che19a, CLM19b, CFH19, CJKM19b, CJKM19a, CV18, CW16b, CGGV15, CJ17d, Dah15b, Das15, DMT16, DMG16, DS17a, DGM+18, DG18, Das18, DHHZI19, DMS19, DLG16, DPR19, DBK17, DL16, DL15, DM15, ET16, EB17, EHHL17, EHLP18, ETF18, lFwW16, FCL+16, FJT17, Fio16, FKD15, FSSW17, FSW19, FHJT19, GGH15, GH19, GSZ16]. **graphs** [GK15, Gho19, GHS16, GLW17, Gre18, GJLS16, GRS17, GWL+18, GTL+18, GRS15, HKLQ16, HLSP17, HS19a, Her16, Hey17, HXL19, HMT19, HLLZ17, HK19b, HHL15, HLW15, HSS16a, HSTW17, HH17, IM19, JTT15, JT18a, JZ18, JKP+17, Jør15, JMM16, JKS15, KM15b, KKY16, KM19, Kol15, Koo19, KLY18, KSTY19, LJK16, LMT19, LMZRZ18, LZ15b, LM16b, LN17, LS19, LZ15c, LwW16, LD16a, LWCS16, LDZ18, LHX18, LXS18, LL15c, LHG15, LZ15d, aLwW15, LSX15, Liu17, LLS17a, LLS17b, LZSD17, LLZ17, LL18a, LZSD18, LLT19, LWX17, LHH17, LHL18a, MHL15, MWT16a, Ma16, MG18a, Mac16, MMP16, MM17a, Man19, MW15, MLW15, Mir18, Moh16, Mol18a, MM16b, MK18, Mró16, MST15, Nik16a, Nik16c, Nik17c, NR18, NLW18, NLWJ18, OQ18, Obo16, Obo19a, Obo19b, Obo19c, OL16, PP17a, PP17b, Pan16a, PS19a, PS19b, PS17, PF18, PS15]. **graphs** [QKP16, RFPS18, RFPS19, Ref16, RS17a, RB16, RR18b, RMS16, RJK18, Row15, Row16a, Row16b, Row18, San15, San18, SS17a, See18, SMBDK16, SM16, SM18, SY15, SSF16, SS16, SZ17, Sim18, Sim19, SUY16, zSqST15, Sta19, SV17, TH17, TFC19, TWM16, Tom15, TSH16, Urs18, VK19, WYLW17, WM17b, WW18, WWT18, WQH19, WLWZ19, WZW19, WYL19, WZZ19, WZL15, WZ15, XS18, YCL17, YZLC18, Zaj19, ZLG15, ZW16, ZLG17, ZLS17, ZXW19, ZGW16, dS18a, dlPJG18]. **Grassmann** [BA15, CG16, CG19a, CLLS19, GGH15, Jen17, Pan16a, SY15]. **Grassmannians** [BHML15, Pan16b, Pan17]. **Green** [CEGM16, CEM15a, GJK18]. **Grid** [CDRT17, KN16, OL16]. **grids** [Sar19]. **ground** [LM19]. **Group** [FJMP15, KY17, AMC18, ABP15, Bie15, BS19a, BJ15, CS19a, CFH19, CH19, CJ17b, CS18b, DHS18, Gae16, GH15, He16b, HS17, KLW15, KMM17, LH17, LMM+16, MBB+18, MY19, PB16, Pop16a, RB16, Sri17, Van16b, Wei17, WLH18, XW16, ZMT19]. **group-subgroup** [RB16]. **Group-theoretic** [FJMP15]. **groups** [AJ19, BD15a, BRN18, BMZB18, CLUP17, Che15b, CHK17, CW17, DF15, DF18, DH19, Far16, GG18, Gae16, GP19b, KMOR19, LMPM17, MS19, MOR16a, NT19, Oi19, Saw16, Sin17, TZ19, Zem16]. **Grover** [KSTY18, LT18]. **Growth** [AB19, CR15, bCR18, LHC15, RZ17]. **Grundy** [Lin19]. **GTS** [NS19]. **guarantee** [Lin16a]. **guarantees** [ZC15]. **Guo** [AB15b, AMNR18, Rob19]. **gyroscopic** [CL15c].

H [CS19b]. **H-matrices** [CS19b]. **Haagerup** [Ali20, HAD19]. **Hadamard** [FJS21, AMV17, BS15a, BGKP19, CM18, DHW16, FJS17, GW16b, GX17, HL17b, HW15b, Jai17, JKP+17, Kar16, LK16, NS17, NW19, Pep17, RS17a, Roo19, RWH17, TG19, Zha18c]. **Hadamard-type** [HW15b]. **Hadamards** [MB15]. **Hajós** [Jen17]. **Hajós-type** [Jen17]. **Half** [EV15, YDYY18, AM19, CD16a, HT18b]. **half-radial** [HT18b]. **half-spin** [CD16a]. **halfspaces** [SW16]. **Halley** [LG18]. **Halmos** [LMX19]. **halves** [Bar19]. **Hamburger** [CJ16b, HZC15]. **Hamilton** [BBS16b, LN17]. **Hamiltonian** [LSX15, LS18b, SS15c, ZG18, Zhu19]. **Hamiltonicity** [Ben16]. **hand** [HPZ18]. **Hankel** [Al'17, BS18a, CJ16b, CI15a, CI15b, DS19b, FM19a, HKM18, Xu16, Yur15]. **Hans** [BMS16b]. **hard** [BC17b, FS19a, RSS17]. **HARDI** [CS15a]. **Hardy** [AP15a, ANAPSR17, HJW19, Nun17]. **harmonic** [Vec16, Yam15, Yin19]. **Harpe** [Ali20, HAD19]. **Haukkanen** [AKYD16]. **having** [BK17a, BBH16, ET16, HLG15, IKVZ18, Nom15a, Nom15b]. **Hecke** [Rai19]. **Hedetniemi** [KM19]. **Heisenberg** [LZ15e, Pop16a]. **Helly** [BJC15]. **hemispaces** [EHN16]. **Herglotz** [ACS19]. **Hermite** [BDM18, ACDT+15, Joe16, PP18, Reb19]. **Hermitian** [ACM17, BŚS18, BBGM16, BBFF17, CG19a, CRC17, CLZ16a, CS18b, CQS18, FM16, GXYZ17, GMO19, Lau18, LL15c, MNTX16, Moh16, Ore16a, Ore16b, Sch16, SWZ18, TC15, Vec16, Yin19]. **Hermitian-adjacency** [LL15c]. **Hermitianity** [HK19c]. **Hermiticity** [BdP18a]. **Heron** [Hoa17]. **Hessenberg** [BR16b, DHW18, Mar16]. **Hessenberg-upper** [DHW18]. **Hessian** [CPW17]. **heterogeneous** [Ruk15, Zha15c]. **Hiai** [Wad18]. **hidden** [DN16, LL16b]. **Hierarchical** [DH15]. **hierarchy** [Ong18]. **high** [CS15a, GdLL17, KU16, Lom17, MH15, SSH15, TW18b, WZ17a]. **high-dimensional** [KU16]. **Higham** [Fis17]. **Higher** [BBMFM17, AAS18, AMC18, BGV17, BBT15, CLUP17, CL16, Fre18, GH16b, GS15, HMNP15, KKP19, LZ15a, SL16]. **higher-dimensional** [CL16]. **higher-order** [GH16b, LZ15a, SL16]. **Highly** [CLM19a]. **Higman** [LMP+17]. **Hilbert** [AK19, BF18a, BCKL17, BSZ18, Bil19, CR19a, CGL16, DY15, GKR16, Jel18, LMX19, MS17a, MEMM17, OZ15b, Pan16b, PCI15, Pop16a, Vir16, XF17]. **Hilbertian** [BFA18, FG16, Zam19]. **Hille** [Bob16, CJRMF+15]. **Hille-type** [Bob16]. **Hilton** [GLW17]. **Hlawka** [BS15d]. **Hoffman** [KLY18, KSTY19]. **hold** [DV18, Wad18]. **Hölder** [Kal18, Zou19]. **Holomorphic** [BGCMLSSS16, Bal17a, BGdCCMSS17, Bil19, FKM17b, Nev18]. **homogeneous** [BB16b, IL17b, PC15, Vas15, Zue18]. **homology** [BBMFM17, CCW18]. **homomorphism** [Jen17]. **homomorphisms** [GRV16, OP16b, dSP15, dSP16e]. **homotopies** [BV18a]. **homotopy** [KL18b]. **Hook** [NS17, Sri17]. **Hopf** [BBdH16, BBdH18, MG18b]. **Horizontal** [CJB18]. **Horn** [Bar15, CW18a, DP15a]. **Hou** [Bah19]. **Hourglass** [Koz16]. **Householder** [RMP18]. **HSS** [Bai18]. **Hua** [lHS16, LZH16, Lin16b]. **Hua-type** [LZH16]. **hulls** [AMR19, KS15a]. **Hurwitz** [BS18a, Dya17, PM15a, Riv15b]. **Hurwitz-type** [BS18a]. **Hyper** [BT15]. **Hyper-ideals** [BT15]. **hyperbolic** [GT16, LP18, MHS15]. **hyperbolical** [SÖ16]. **hyperboloid** [SÖ16]. **hyperboloids** [Kim15a]. **hypercube** [Mir18]. **Hypercubes** [KHI16a, KHI16b]. **hyperdeterminant** [YLB15]. **hypergraph** [HQX15, Pea15]. **hypergraphic**

[CRRY15, CLR+18]. **Hypergraphs** [Nik17b, BL18a, BCM17, CLN15, Duk12, Duk15, DR19, FuIKT16, FWB+19, FBH19, JZZ18, KNY15, uIKF15, LZB18, LZ16a, LZM16, LZW17, LZ17a, LKY16, LM16c, OQY17, RS17a, SY17, SZB19, XLQC16, YYQ19, YZL15, YQS16, ZLKB17]. **Hyperinvariant** [AW15b, AW15a, FMM16]. **hypermatrices** [Nik17a, Nik17b]. **hypermatrix** [GF17, Pea15]. **hyperplane** [FGG+18]. **hyperplanes** [Pan15b]. **hyperpower** [SSH15]. **hypersurfaces** [UM16]. **hypertrees** [GZ18, ZKSB17]. **Hyponormality** [Lee19a].

ideal [HR17, Pop16b, Ris16]. **ideals** [AKS17a, AKS17b, BT15, CKM19, HR17, JLM18, KVV17, Ris16]. **idempotence** [LP15]. **idempotent** [Bot16a, GT17, LP15, Ste18, TXZ18]. **idempotents** [AJL16, BES16]. **Identifiability** [Wan16b]. **Identification** [LPPZ19, Hoo19, NAS18]. **identifications** [SBB15]. **Identifiers** [GZ19]. **identifying** [BDMB19]. **Identities** [UG18, AGN18, BY19, BKNS18, BLdSV19, BV18b, CR15, Ere16, HHJM15, LMR16, TZK17, Wan15b]. **identity** [AMPT16, BaHOS15, LMS16, LLSX15, Rum18, RB19, Zha18b, dCdSA15, vWZ17]. **ifications** [BR16a, DPV19, DDV16]. **Ihara** [KMMS19, Som17]. **II** [dSP19c, AKS17a, BS16c, CJKM19b, CSJ16, DV19b, EHLP18, FKM17b, GH15, Hia16a, KLY18, Ore16b, PT19, She17]. **III** [AKS17b]. **ILAS** [CFH+16, FLVV18, GPW15, GHPS19]. **ill** [BB18, NSCV16]. **ill-posed** [BB18]. **Ilmonen** [AKYD16]. **image** [DDSC+16, PS16, Win16]. **images** [AEV15, Fag19, LNT16a, Lau18, LT16b, MO16]. **imaging** [CS15a]. **immanantal** [NS17, NS19]. **immanants** [Tab16]. **Implementing** [CG19a]. **Implications** [BdP18a]. **implicit** [CMV19, SNP16]. **imprecise** [Sku17]. **imprecision** [Sku17]. **imprimitive** [MP16c]. **Imprimitivity** [AGH17]. **improve** [AM16b]. **Improved** [Che18b, DM18, XL18, LLH17, Xu17b]. **Improving** [OVW18]. **incentive** [LT19a]. **incidence** [AB18, CR18b, CDH18, IHM08, Ma16, MMM19, WZZ19, ZK17]. **including** [Ern18, JLD17]. **inclusion** [BWSZ15b, BJLD17, DLB18, ELN18, LCL15, LL16a, XF17, YZL+19]. **incomplete** [LSM18, Mic16, iT16, iT19]. **inconsistent** [BW19]. **increasing** [CR19b, Gar17]. **Indecomposable** [CPS17]. **indefinite** [MV16, MSSZ17, ME15, NN19a, SG17a, VK16]. **independence** [ACT16, JL16a, LL18a, ZLG17]. **independent** [bCR18, MC19, OL16, Vij15]. **indeterminates** [HZ15]. **index** [AGH17, AMNR18, BOT19, CR19b, DG18, DS19b, FW17, JDS17, Kim15b, LZ15b, LS19, LLZ17, LL18a, MMS18, NY15, NR18, PS15, Rob19, SPBB19, SG16, Yua14, Yua15, ZW16, dFNP16, Rod19]. **indexes** [WWT18]. **indices** [APR+17, DA19c, FGS+16, HLW15, HW15c, Pal16, Som17, SS17b]. **induced** [KSTY19, Mar18]. **inductive** [MHA18]. **Inequalities** [BM19b, BJL19, CS19a, Cho17a, Cho17b, HvdD16, AOK15, AO18, AKS17a, AKS17b, AN17, AK19, ANAPSR17, Bar17a, BS15d, BLY16, BBP19, CPZ16a, CM16, DKS15, DS15, GW18, GHK17, GLRT18, HRM18, Hoa17, HWXC18, JM16, JLM18, Kal18, KMY15, KL17, KMS17a, Lin16b, Lék16, MN15, MRS15, MF16, NS17, Nie15a, Nie15b, Reb19, Ric19, Sab15, Sab18, SMH19, SDK17, She17, SWB19, TNK16, Uch15, Ulu19, WDFS17, XCJ18, Zam19, Zha18c, Zha19a, Zou19]. **inequality** [Ali20, ACPR15, AP15a, BNST17, CJRMF+15, CPZ16b, CTZ19, CS17, CW15b, CJ16c, CJ16d, FS19b, GXYZ17, HAD19, Hay19, HL17b, IKW16, JZC19, LS18a,

Lin15c, Liu16a, Nun17, RRV15, Roo19, RWH17, Wad18, Zha19b, Zou17]. **Inertia** [HT18a, NN19a, AvdHS15, AvdHS16, BS16a, FW17, LS19, LLL15, LOvdD18, WWT18]. **inertias** [BOvdD17, COvdD16]. **inexact** [BM17a]. **Infimum** [WLL19]. **Infinite** [BGdCCMSS17, DE15, ET18, MS17a, Min17, ABO15, AMZ17, Bie15, BS16e, CG19c, CJ17c, Dya17, Egg15, EGT15, HLZ17, Hou19, Hou20, KL19b, LD17b, LMR16, MK18, NT19, Pan17, PMW19, PP15, PPZ19, SR18]. **infinite-by-infinite** [Egg15]. **Infinite-dimensional** [Min17, CG19c, Pan17]. **Infinitely** [VB18]. **infinity** [GS19b, LCWZ19]. **Inflation** [SZ17]. **inflations** [MM19a]. **influence** [BK17c]. **information** [DKS17, Mel19]. **initial** [MGM17]. **injectivity** [FMR19]. **inner** [AGQ19, AL19b, BEKS17, FZwCW16, FS19b, Mag16, MSSZ17, PP18, SG17a]. **inputs** [LPPZ19]. **insight** [CQ15b]. **Instances** [DK16]. **instructional** [Dog18]. **integer** [Bor17, Mac16]. **integers** [San15]. **Integral** [BK18, CFH19, San15, ALOR19, Bal17a, Cal16, CDMP15, CS15a, CX17, CW16b, DN18, FdC15, HK19a, JKP16, Mir18, Ota15, PS19a, San18, Wim16]. **integrality** [DN18]. **Integrally** [MS16a, PS17]. **integration** [BPT15, Van16a]. **Integrators** [AMH11]. **intercyclic** [VV18]. **interlaced** [MM15b]. **Interlacing** [GMO19, DS15, Tya17]. **International** [GHPS19]. **interplay** [Pal16]. **interpolants** [ACDT$^+$15, EG19]. **Interpolated** [Sab15]. **Interpolating** [Zha19b, RV18]. **Interpolation** [BDM18, AL18, HZC15, MM17c, Ste15]. **interpolational** [UYY17]. **interpretation** [FKD15]. **interpretations** [LPP15]. **interrelations** [Riv15b]. **intersection** [KKL$^+$17, PRS19, SXD16]. **intersections** [RV18]. **intertwiners** [Ter17a]. **intertwining** [DSCD17, MMS16]. **Interval** [Mys16, RS18, WT18, Gho19, Hla15, HS19b, Li15a, LX17, Li19, MP15b, MP19, PM15a, PS18b, Rub19, wXjMZL19]. **intervals** [XL18]. **intriguing** [BM19a]. **Introduction** [Bru16a]. **Invariance** [AG17, BJ15]. **Invariant** [CQ15a, ACRR15, AG15b, AG20, BBEE19, BB16a, CKL17, CFP18, CJW19, DG18, DH19, DS15, JLM18, KT17, KLL18, KMS17a, Lee19b, LP18, LNW17, MRS18, MOR16a, NINS16, NP15c, Ouy17, Ram17, Sab15, SK17a, SW16, WL15, Zha19b, Zha15c, Zou19]. **invariants** [DS19c, GRV16, KLP18, Obe16]. **Inverse** [BS16a, CS19b, CIY15, CNY18, ES16, HJ16, HC15, HFS15, Wei15, ATM18, Ais18a, Ais18b, AB18, BW16, BPP17, BFM19, Bik19, BC17b, BC16b, CJ17a, CGMSR15, CGDM16, CL15c, CCO15, DHW18, EJ18, GMLdS16, Hoo19, JT18a, JMRV16, JP16, JMP17, JP18, JS15, KB15, LDL18, LCWZ19, LL16c, LMM$^+$16, Ma15, MN15, MPS17, Miy15, MK18, NMBA19, Nor18, QWW18, Rak17, SLY17, SW18b, Wei17, XSW17, YWD16, ZC15, Zho17]. **inverse-free** [JMRV16]. **Inverses** [LL19, PP17a, WZ17b, BJKR17, BKNS18, BBH16, CFM16, DM18, Dra16a, ELN18, HWZ15, KC16, Niv15, OP16a, OP19b, PSZ15, PCI15, PHW16, RD15, SR18, Shi17a, SSH15, SZW16, XW16, ZMT19, ZZC15]. **inversion** [EGT15, KP19]. **Invertibility** [PPZ19, DS19b, YYMK17]. **invertible** [CS19a, CKT19, KKA15, LY17, Ore16a, Ore16b, PS17]. **investigation** [GO18]. **involution** [BLdSV19, UG18, ZZC15]. **involutions** [AR18, BKRE18, GT16, HLZ17, Hou19, Hou20, LMPM17, dlC15]. **involutive** [FKS16]. **involutory** [Kis15, XX12]. **involving** [CGMSR15, Das18, FI19a, GHK17, HL17b, KMS17a, Lin15a, SS17b, UWYY15]. **Iowa** [GHPS19]. **irrationals** [OZ15a]. **irreducibility** [GJ18]. **irreducible** [CUPW15, DDL17, DLB18, FBH19, KLS19a, Kim15b, LLV15, LZ16c, MM17a, MP16c,

WFS19, Yan18]. **irregular** [NLWJ18]. **ISBN** [Bar15, Bru16a, Tsa16b, Zha15a]. **isoclinic** [ET18]. **Isometries** [Hor17, Nag15, BMN16, BSZ18, BBMP19, Bil19, BJ15, BKS15, BKPS17, BKSP23, Cha15, CGL16, FG16, GS17, GT16, GS15, MMS16, Mol18b, aHRT15]. **isometry** [CCW16, FX19, GG18, Oi19]. **Isomorphism** [Pel17, ET16]. **isomorphisms** [BFD18, GJK18, PR18a, STW19, Wan16c]. **Isospectral** [MGM17, BS18c, DT15]. **Isotonic** [EE16, NN16]. **Issue** [DLW15, BBF19]. **Itô** [WHG17]. **Iterated** [Dal17a, BMZB18, Col19, GP19b]. **iteration** [BB18, Lia17, RW16, RV18, XXZ16, ZZR15, SK17a]. **iterations** [SSH15]. **Iterative** [CA18, FS19a, LC19, AL19b, Had17, RSS17]. **IV** [HW16]. **Iwasawa** [Saw16].

J [Dra16b, LCNZ19]. **J.** [Dra16b]. **Jacobi** [AM15b, BW16, BM17a, BKNS18, HP15, KH17, SS15b, Wei15, WP17]. **Jacobian** [KMM17, dB19b]. **Jacobians** [YT16, YdB19]. **James** [AR15b, KL19b, LLH17, PSG16, PSM18, PMW19, SPH15]. **JB** [BCP16, KLL17]. **JB-algebras** [KLL17]. **Jensen** [MPV16, Nie15a, Vir19]. **Jersey** [Bru16a, Tsa16b]. **Jin** [Bru16a]. **Johnson** [Bar15, CHJM18]. **join** [CDR18, IHM08, IK18, Mat15c]. **Joining** [SNDM17]. **Joint** [BFA18, CM19, cSfCfX15, AMC18, ACM17, BF18a, CL19, GMW18, KS15b, Lau18, Pep17, SWZ18]. **Jointly** [Vir19, Alf18a]. **Jordan** [AEKP16, ALH15, AA17, Bal15b, BLdS16, BLPT15, Ben15, BM15, GLAdS19, GW17a, Gow17, GJ18, HA16, IKVZ18, JG16, JG17, KS15a, KVP19, KSTX15, KY17, LNW17, MO16, MP16b, MN19b, MMR18, Pet15, Rad17, TW16, YL17]. **July** [GHPS19]. **just** [Row16b].

Kac [Fik18, FM19b, FH19, Sin17]. **Kaczmarz** [BW18, BW19, NZZ15, OZ15b]. **Kaczmarz-type** [OZ15b]. **Kadison** [Hou15]. **Kalman** [RRV15]. **Kaplansky** [DK16, RY15]. **Karaduman** [CL15d]. **Karcher** [FS18b, LK16, SMH19]. **Karlsson** [MB15]. **Karpelevic** [JP17]. **Kautz** [Dal17b]. **Keller** [PC15]. **Kemeny** [Hun18b, MMM19, WDV17]. **kernel** [Pep17, Ram16, San18]. **kernels** [AG15b, AG20, BGKP19, CJW19, GW19b, Pan19a]. **Kerov** [GH15]. **key** [Hun16]. **kind** [KT17, YMZ19]. **Kirchhoff** [DG18, MMS18, RFPS18, RFPS19]. **Kirchhoffian** [Pal16]. **kissing** [Che15a]. **Kittaneh** [Lin17b]. **Kneading** [ABO15]. **Kneser** [DHS18]. **Knill** [MB18]. **Kogbetliantz** [MH15]. **Kolchin** [KLS19b]. **Korea** [CFH$^+$16]. **Korovkin** [KNR18]. **Korovkin-type** [KNR18]. **Koteljanskii** [JZC19]. **Krawtchouk** [HK19a]. **Krein** [CMM19, GMP16a]. **Kreiss** [Rao18]. **Kronecker** [BTW16, FS18a, FK18, GF17, HF18, Hil18, Lot15, PRS18]. **Krylov** [CA18, BMS16a, CMV19, CS18a, Dax17, Sch16]. **kurtosis** [Hür15, Lop17]. **Kutta** [BDDSC17]. **Ky** [HRM18, Pet15, TY15].

Lagrange [CPW17, VT18]. **Lam** [GKR16]. **Laman** [KS15b]. **Laplace** [Reb19, Sch16, SY17]. **Laplacian** [ASMN17a, GP18, LLS17a, ZL15a, ABC$^+$16a, AA19, ARR18, AG15a, ASMN17b, ACPR15, ACRR15, AGRR16, ADLR19, ARSB18, AH16, BK16, BS17, BS15c, BZ16c, BBC18, BCC$^+$18, BDVRT15, BH16b, CR17b, CCdFV18, CD16b, CX17, CLR$^+$18, Che18b, CLF18, Che19a, Dah15b, DdSJdFDV15, Das15, DMT16, DM16a, DS17a, DG18, DV19a, DL16, EHHL17, EHLP18, lFwW16, FuIKT16, FWB$^+$19, FdFdSDV18, GAP16, GCP18, Gho16, GRS17, HvD18, HT17, HQX15, HL19a, JMM16, LZ15b, LZ15c, LwW16, LD16a, LWCS16, LZ16b, LZW17, LDZ18, LLS17b, LLZ17, LL18a, LHH17, MQTW18, MMM19,

NS19, NLWJ18, Obo19c, Ost15, PG15, SW15, STW18, STW19, SV17, TWR15, TWM16, TW18a, WH18, WZZ19, WZL15, XSW19a, XS18, YG15, YQS16, Yua16, ZL15b, ZW16]. **Laplacian-energy-like** [DG18]. **Laplacians** [FCLP18, MM19b, NS17, Nag19, SCD17]. **Large** [BDFR15, dSP16c, dSP16d, BW19, BGM+19, BB16a, BDLM16, CR18a, EM17, HK18a, Jia15, LMS15, MNT19, PS19d, VHB18, Yin18]. **large-scale** [BB16a, EM17, HK18a, LMS15]. **larger** [YSS16]. **largest** [ABH+19, AB15a, BK17c, Che19a, CLM19b, DMS19, lFwW16, FuIKT16, HQX15, Kim15b, Lin15a, LDZ18, MHL15, McK18, MNT19, Obo16, OQY17, SAdFZ15, Sta19, TW18a, XWD18, YQS16]. **lasso** [WLH18]. **latin** [War17, Shi18c]. **lattice** [EHLP18, Joe16, MMR16, MMR17, MMR18, WDFS17, YDYY18]. **Lattices** [BFG+16, BF17b, Bie15, LM17, MdlP16, Str18, Yam15]. **Laurent** [Che18a]. **law** [PCI15, XSW17, dCdSA15]. **laws** [NN19a]. **Lax** [AS17]. **Layout** [RR18b]. **LCM** [AYK17, HT18a]. **leading** [De 16b, HJ16]. **learning** [SH15b]. **least** [BZ16c, BBC18, CGDM16, CKM16, CGM17, CRS15, DS18b, Eld15, GRS17, HK18a, JKS15, KL15, KLY18, LM16b, LC19, LHC15, NZZ15, SZ17, UM16, WZL15, Yas16, ZG18]. **Lee** [Mor16b, SSS15, TZK17]. **Left** [Dra16a, HW16, Lie18]. **Legendre** [Reb19]. **Leibniz** [LMO16, CC16, CLOK13, CILL16, KKO15]. **lemma** [Alf15, CS15b, CJ17c, DP15a, Lev15, Cim15]. **Length** [GMM19, WZW19, DF15, DF18, LMS16]. **Lengths** [GMM16]. **Leonard** [AC15, HLG15, LHG15, Nom15a, Nom15b, NT17, SGH16, Ter17a, WHG17]. **Leslie** [Ben18]. **less** [FZwCW16]. **Leuven** [FLVV18]. **level** [KRZ+17, MP18, WQH19, Zas16]. **lexicographic** [WW18]. **LFED** [Zha17]. **Lidskii** [MRS15, MRS18]. **Lie** [ABM18, AEV15, AKR15, AK16a, AK16b, BC15a, BdlCL17, BCS15, BCS16, BP19b, CCiT18, CPS17, CCW18, CW15a, CL15a, Chi18, Cos19a, CLP16, Der19, DR17, EF17, EF19, FKPS18, GPI18, HAM16, Hol16, HZ19, HK17, KLS19b, LL19, LZ16c, LZ17c, LGZ18, PR19, RZ17, Saw16, Wan16c, WZ17b, ZK17, Zus17b, vWZ17]. **Lieb** [Bek16, FS17b, Hua19]. **lifts** [CV17]. **like** [AB16, BDP+18b, CCGO17, DG18, DA19c, DF15, DF18, LWY16, LZSD17, LZSD18, Mel16b, Nie15b, RW16, VK16, Zhe19]. **likelihood** [Ruk15]. **Lim** [DDF17a]. **limit** [Ban16, LMM+16, Yin18]. **limited** [EM17]. **limited-memory** [EM17]. **Limiting** [Tab16, CG15]. **limits** [Bik19, Ege16, Nat19, PR18b]. **Line** [Her16, ALMZ+19, CG19a, DF16, Dal17a, DMG16, DM16a, FdC15, GCP18, Gre18, HS19a, LMZRZ18, MST15, Ref16]. **line-Hermitian** [CG19a]. **Linear** [AMR19, ASMN17a, Ali20, Ano16a, AG20, Bal15a, Bal15c, Bal18, BR19, BTW16, BMVW16, BF17b, BO17, BKSP23, CC17b, CR18b, Dog18, Duk15, EKSV18, EP18a, FJS21, FL15, GP18, GWL+18, GJK18, GHPS19, HF18, Hou20, HSS16b, KAPS20, KS19, KHI16a, LMO16, LM16a, Lau18, LT16a, LLS17a, LZSD18, LD16b, LD17b, MRV15, Nom15c, PW20, Pud16, RB19, SM18, XFZD17, Yua15, ZL15a, dCDFK18, dS19a, ABP15, AAdFS19, AJ19, ÁKM17, ABO15, ANAPSR17, ABGJR+18, AW15b, BW19, Bal15b, BP16a, BLPT15, Bel16, BF17a, BGCMASS19, BS16c, BRN18, BM17c, BL19, BMO15, CEM15a, CVV19, CNX17, CJ16c, CJ16d, CJ17c, COS18, CFNP17, Cus17, DGCC16, DGGP18, DS18b, DdFR16, DU16a, DN16, DN18, DdC16, EE16, Ema18, EJ19, FM17, FHS17b, FKPS18, GM15, GSP16, GC19, GR15, Gow16]. **linear** [Grc18, GBRS15, GHT16, GQ26, Hla15,

HR16, HS19b, Hoo19, HM17b, KL18a, KKA15, Kis15, KÖ16, LNT16a, LPPZ19, Lee19b, Li15a, LX17, LLL17, Li19, LS18b, Lom17, Mar18, MSSZ17, MMR16, NA15, NN19b, NINS16, NT19, NP15a, Nie15b, Obe16, Olk15, ÖK18, PSG16, PSM18, dSP19a, PMB15, QG17, Ram17, RJK18, RH15, RT16, RW17, SFW18, SR18, SNP16, SDK17, SK17b, SSS15, Shi16b, Shi16c, Sug17, SS15c, TZK17, TXZ18, VGG17, VG18, Wan16b, WZL17, WT18, WLL19, Wan19, Wój19, XX12, wXL14, XvdBvdLS15, wXZ19, YLT16, Yin18, ZD15, ZZR15, ZC15, ZH17, ZLQ16, Zhu19]. **linearization** [BŚS18, VT18]. **Linearizations** [MP16a, PM18, AB16, BDFR15, BBFF17, CCGV+19, DA19a, DMQ19, FS17a, NP15b]. **linearly** [Mar15a, MC19, Vij15]. **lines** [CGSZ16]. **Liouville** [GM16a, YSZ17]. **Lipschitz** [AAdFS19, BP16a, BZ16b, GMW18, Oi19]. **list** [HMPT18]. **lists** [AMR18, BCJ+16, JZ18, MAR17, MN19a]. **Littlewood** [AP15a, ANAPSR17, Nun17]. **LNED** [Zha17]. **load** [Zha15c]. **Local** [AKR15, AK16a, AK16b, AA17, CW15a, CL15a, Cos19a, CDH18, LZ17c, MRS18, AAM15, ABM18, ÁVAK+19, BM17a, BE15, Ben15, BM15, BL18c, BCP16, CP16a, CJ16c, Cos16a, CS18b, CQS18, EJ17, EG15, Est16, HLM17, NT19, NP15a]. **local-global** [NT19]. **Localization** [BM18, BM16a, LJL16, Mel19, NN19a]. **localizations** [SKC18]. **locally** [AW15b, Beh17, Bik19, Che18a, DF16, Man19, TXZ18]. **location** [AAS16, FHJT19]. **loci** [BBT15]. **locus** [Jel18]. **Log** [AGS17, HL18, Hia19, BDK+17b, Hia16b, LS18a, Min17]. **Log-Determinant** [Min17]. **Log-majorization** [AGS17, Hia19, Hia16b]. **Log-majorizations** [HL18, LS18a]. **logarithm** [Miy19]. **logarithmic** [BES16]. **logarithms** [BNST17]. **logistic** [KM18]. **lollipop** [BP15]. **long** [GH19]. **look** [UZ19]. **look-ahead** [UZ19]. **loop** [BGM+19, BBGM16, GSZ16, SZ17, Zaj19]. **loop-free** [GSZ16, SZ17, Zaj19]. **loops** [AvdHS15, AvdHS16, GPI18, Sim19]. **loose** [Xu17a]. **loose-coherent** [Xu17a]. **Lorentz** [Bal15a, HC19]. **losing** [BdP18a]. **Lovász** [OP15]. **Low** [BA15, GS19b, RSS17, BB16a, BR16b, CCO15, FS19a, GH17, HKM18, lHS16, KU16, MS19, Mor17, OVW18, PQY15, RGPH16]. **low-dimensional** [BB16a]. **Low-rank** [BA15, GS19b, FS19a, GH17, KU16, Mor17, PQY15]. **Lower** [AR16, AP15a, CLL15, DTZ16, TWM16, WWC18, AL15, ARS17, AdFRR18, Bal15c, CR19b, HW15b, Mor17, Obo19b, SP16, ACRR15]. **lower-upper-lower** [SP16]. **Lowering** [Ter15]. **Lowering-raising** [Ter15]. **Löwner** [Pas18]. **LS** [MVPST19]. **LS-category** [MVPST19]. **LSMR** [HKP17]. **LSQR** [CN19a, HKP17]. **Lur'e** [SL16]. **Lvov** [DK16]. **Lyapunov** [eFLYL15, Gór17, GX16, GX17, GX19].

MacWilliams [TZK17]. **made** [Kal16]. **magic** [JKKL15, War17]. **magnetic** [FCLP18]. **main** [HKLQ16, HHL15]. **maintaining** [MGM17]. **Majorization** [DGS18, Fie15a, Nie15a, AGS17, Dah15b, EE15, EM15, Gow17, Hia16b, Hia19, Lin15c, Lju15, LD16b, LD17b, NA15, Obo19a, Obo19c, PP15, XF17]. **majorizations** [HL18, LS18a]. **majorizing** [Sab19]. **Malcev** [HAM16]. **manifold** [BA15, DH15, DSX15]. **manifolds** [BC19a]. **map** [BP16a, Dym16, MPS17]. **mapping** [Cus17, GMLdS16, Tsa16a]. **mappings** [AAdFS19, BMGP15, CC17b, DGK+17, DKS15, DdFR16, FJ17, FJM18, eFLYL15, FHS17b, MSSZ17, Wój19, WMC15, Zha18b]. **Maps** [AAM15, BE15, BM15, KP17, MPV16, Pet15, ZH15, AKS17a, AKS17b, BS16c, Bou16b, BL18c, BL19, CP16a, CHK19, CKL17,

CKT19, COS18, Cos16a, Cos16b, Cos19b, DdC16, EJ17, EP18a, FMR19, Gow17, HF18, HYH15, HLS+16, KVP19, LT12, LT16a, LT16b, LY17, MR17a, Mar18, MS16b, MM17c, Nie15b, Oi19, Ong18, PC15, QH15, SDK17, SK17b, STZ15, Vir16, XFZD17, YT16, YdB19, YLT16, YL17, dB19b]. **Mardia** [Hür15]. **marked** [CFP18]. **Markham** [LZ17b]. **Markov** [BPZ17, BK17c, BCF+18, CLR19, Cho19, GZB19, Hun16, Hun18a, Hun18b, JLT17, LZ15a, Mas17, Reb19, SY16a, Sab19, Sku17, SH15b, VB18, Vas15, WC15]. **Markovian** [GCQX15]. **mass** [HZC15]. **matchable** [AJ19]. **matching** [Ash19, HHL19, MWT16b, TH17, TWM16, TW18a, WWC18]. **matchings** [Mes17, MM16b, TD15, YG15]. **mates** [CHJM18]. **Math.** [Zha15a]. **Mathematical** [Zha15a]. **Mathematics** [Bru16a]. **Matic** [Zha15b]. **Matrices** [AR15a, Bre18, CLST18, CSJ16, GS17, GdLL17, Hil17a, LdlP15, RFPS18, AMR+16, AOK15, AM19, AAS18, ATM18, AG17, AMR19, AJL16, AK19, Alf18a, APS18, ANP16, Alo15, AKYD16, AYK17, ACM17, AMZ16, AdF19, ARS17, AMNR18, AMR18, AMG19, APT17, AGV18, ABK19, AL19b, BJ16, BW16, Bai18, BFFN16, BM18, Bal15a, Bal15c, Bal17b, Bal18, BM16a, BS15a, BK19, BBdH16, BBdH18, BDDO16, BP16b, BBH16, Bar16b, BGS15, BGM+19, BF18b, BF19a, BŚS18, BM19b, BE15, BN17, Ben18, Ber17, BS16c, BJL19, BC19a, Bie15, BDLM16, BR16b, BBGM16, BBC+15, BDS15, BC17a, Bor17, BC19b, Bot16a, Bot16b, Bou16b, BM15, BC15b, BSS17, BGSS18, BHSS18, BS16f, BM16b, BaHOS15, Bri17, BCU15, BGGS16, BD19, BR18, BÓ15, BO17, Bur15, BV18b, CCiT18, CRX15, CU18]. **matrices** [CC19, CDR18, CEM15a, CR19b, CLR19, CPZ16a, CGMSR15, CM18, CHK19, CR18a, Cha19, bCR18, CRC17, CS19a, CS19b, CLW15, CXLF16, CIY15, CL17b, CKS16, CJB18, CS18a, CK19, CN17a, CN17b, CN18, Cho17b, CKT19, CS15b, CHB15, Chu19, CI15a, CI15b, Chu15, CM19, CD16c, CW16a, Cos16a, Cos16b, CJW19, CLP16, CLS17, DD17a, Dah15a, DA19a, DA19c, DB19a, Dax17, DDCY17, DeV19, DD16a, DD19, DAG16, DEH16, DDF17b, DFK+15, Dmy16, Dmy19, DO16, DL16, DMQ19, DM18, DdF15, DE15, DN16, DdC16, DS17b, DU16b, DKPU18, DHW16, Dya17, ELN18, Ege16, Egg15, EHK16, EM16, Ern18, EGT15, ET18, EW19, Fag19, FOvdD16, Far19, FT16, FMR19, FdC15, FM19a, Fie15b, FGH+15, FM16, Fik18, FM19b, FI16, FKM17a, FR15, FR18, GG18, GSW16, GSSvdD16]. **matrices** [Gar17, GW16b, GWW16, GL19, GXYZ17, GH17, GIM16, GM16b, GT17, GMP16c, GW19b, GHT16, GHK17, GLRT18, GL15b, GL15a, GL16, GMM16, GS16, GJK18, GT18, GMM19, HS18, HKM18, HvdD16, HT18a, HAWM16, HS17, HJW19, HL17a, HJ16, Hil17b, HW15b, HP15, HT18b, Hon18, HLZ17, Hou19, Hou20, Hru16, HWZ15, Hua15, HSS16b, lHS16, HNR16, HLS+16, Hua19, HL19b, Hür15, HK18b, IKVZ18, IW15, IHM08, IK18, IKW16, Jai17, JT18b, JS16, Jia15, Jin15, JSST16, JZ16, JT17, JZ18, KLS19a, Kan16, KS17, Kar16, KLP18, KKL+17, Kim15b, KL15, KLL16, KK18, KLL19, KQZ16, Kis15, KL17, KM16, Kob17, KLS19b, KK17, KY17, KH17, Koz16, Kur19, Kus15, Kus16, LL17, Lau18, LLPS19, Lee15b, LP15, Lee15c, LL19, LT16b, LZH16, LDL18, LCWZ19, Lia17, Lie18, Lin15b]. **matrices** [Lin16b, Lin17a, LZ17b, LL15c, Liu15, LY17, LT19b, Lék16, LS17b, LSM16, LSM18, LMR16, Lyn15, MO16, MY16, MM19a, MS16a, MAR17, MS15a, MM16a, MMP17, MMV19, Mar16, Mar15a, MV16, Mat15b, Mat15c, MP16b, MP16c, MN19a, MNT19, MN19b, Mol18a, MS15b, MPV16, MM15b, Mor17, ME15, MMW17, MHN18, MP15b, MP19, NMBA19, NS15c, Ngu18,

NW19, Nie19c, Nik16a, NA17, Niv15, Nob16, NK18, NSCV16, OW17, OVW18, OS17, OP16a, Ore16a, Ore16b, OP19b, Ost15, OBRA15, PSZ15, PT19, PS18a, Pas19, PM15a, PCI15, dSP16a, dSP16c, dSP16d, dSP16e, PM15b, PS19d, PR19, PS16, PS18b, PP18, PHW16, PW19, PW20, RS17a, RS17b, Ris16, Riz19, Rob19, RAAGA16, Roh18, RS18, Rub19, Sal16, SSCS16, SR19, Sch16, SK17a, Ser16, SA17, Sha16, SK17b]. **matrices** [She17, Shi16e, Shi18a, SSV17, SCD17, SH15b, SS18, SB18, SUY16, Sol18b, SW18a, Sot17, SJS15, SS15b, SV17, Ste18, SSB15b, SSB15a, SG17a, STZ15, SWZ18, TH16b, Tan16b, Tan19, Tar18, TS18, DDMV16, Ter18, TW18b, Tsa16a, TW19, TCD15, TC15, TG19, Ulu19, UG18, VB18, VQ17, VQ19, VV18, Vec16, VHB18, VLGS15, VB19, Wan15a, WLP16, WQH19, WLL19, WZ17b, WMC15, WHC17, XW16, XX12, wXL14, XFZD17, XSW17, wXZ19, Yan16, YDHX18, Yin18, Yor17, YZZ18, ZS17, Zha18c, ZMT19, Zha19a, ZLLL18, Zhe19, ZM16, ZF15, Zim15, dCFF17, dlCMP15, dlCMP17a, dlCG18, Tsa16b]. **matricial** [FKM17a, FKM17b, FKMS18, HZC15, JP17, ZHC16]. **Matrix** [AMH11, BLdSV19, Bru16a, BPT15, Che18d, CP17, DKS17, Eve18, He15, KM15a, MN15, MHA18, MP16c, Nat19, PW18, PV17, Rao18, ZSQZ19, Zhe19, AMR$^+$16, ARS16, AG17, ARR18, ASMN17a, ASMN17b, Ais18a, AGH17, ABG16a, AGS17, AGN18, AB16, Al'17, AB15a, AMZ17, ADW19, ABD19, AL16, ACDT$^+$15, ABK19, AA17, AB18, BR15, BmBCC17, BS15b, BS16a, BES16, BDG15, BB18, Beh17, BGKP19, Ben15, BGT$^+$19, Ber18, BLY16, BR16a, BHK16, BFD18, BHP17, BA15, Bou15, BDK$^+$17b, BC16b, BaHOS15, BS19c, BDFR15, Bün17, BR17, CL19, Cal16, CJ17a, CG15, Cha15, CCGV$^+$19, CLT15, CMQV16, CPW17, CLR$^+$18, CLM19a, CJ15, CA19, CJ16b, CS17, CYD19, Cim15, CDTZ15, Cos19b, CHT19, DGS18, DdSJdFDV15, DA19b, DI16, DDL17, DDMP19, DR16, DKS15, DHLT19, DF15, DF18, DPR19]. **matrix** [DD17b, DFKS17, Dmy17, DD18, Dod16, Dod17, DKNS16, DPS19, DU16a, DPV19, DE15, DvSW18, EKSV14, EKSV18, EEV17, EH15, EJ18, Ere16, FI19a, Fas19, FS17a, FS18a, FS17b, FdC18, FMM16, Fis17, FHS17a, FK16, FKM17b, FKRS17, FX19, FKS16, GGMPC15, GW16a, GW17a, GWW19b, GWW19a, Gil16, GS19b, Gol16, dMGC19, Guo19, GLMS18, HLPS19, Hay19, He16a, HAWM16, HNS15, HR17, Hia16a, Hir18, Hoa17, HC15, HFS15, Hu15, HNR16, HN18, Huh15, Hut17, JMRV16, JLD17, JLDS18, JCW19, Kal18, KS15a, KM15b, KK18, Kis15, Kli19, KPL18, KIS18, KT15, KB15, KMOR19, LMS16, LMS15, Lee15a, Lee19a, Lev15, Li15b, LWY16, LM19, LLSX15, LLL15, Lin16b, LdlP15, LW15, LLH17, Lop17, LG18, LMPM17, Mac16, Mac18, MP16a, MR17a, MI17, MR17b, MOR16a, Mat15a, MP17, MNTX16, Mel15]. **matrix** [Mel16a, Mes17, MR19, MRV15, Mig16, Miy15, Miy19, MGM17, Mon17, Mys16, NS15a, Nev18, NP15b, NR16b, OZ15a, Pan15a, PRS19, Pas18, dSP15, dSP19a, PM18, PPZ19, QWW18, RRT16, Rin17, Riv15a, Riv15b, RMP18, Rum18, RB19, Sab16, SR19, Sas18, Shi16f, Shi18b, SÖ16, SZ19, STW18, STW19, SS19, Tab16, TY15, TW17, Tom15, TVD15, iT16, iT19, UZ19, WYL15, Wei15, Wim16, WC15, XSW19b, XXZ16, XX12, wXL14, XvdBvdLS15, Xu17b, wXZ19, Yas16, Ye17, YYSX19, You15, YWD16, ZD16a, ZD16b, Zho17, dCDFK17, dCDFK18, dlC15, dlCF16, dlCMP17a, dlCdR17, vWZ17, MM19b, Bar15, Zha15a]. **matrix-products** [BR15]. **Matrix-tree** [BPT15]. **matrix-valued** [FKM17b, Lee19a]. **matrix-variate** [Mat15a, MP17]. **Matroid** [GRV16]. **matroids** [MFdM15, Pea15]. **Max** [Hoo15, Hoo19, Nik16b, EHN16, GMW18,

Li19, MP15a, Mys16, MP19, PS18b, RLP19, Ser15, Shi16b, WT18, ZD15, vDS16]. **max-** [vDS16]. **max-algebra** [PS18b]. **max-min** [MP19]. **Max-plus** [Hoo15, Hoo19, EHN16, Li19, Mys16, RLP19, WT18, ZD15]. **Maxima** [NY15, Yua14, Yua15, dFNP16]. **Maximal** [BR18, DO16, Mes17, NS15c, dCDFK17, dCDFK18, CRVSS19, DMS19, DF15, DF18, EEV17, GH16a, LZ15b, LCNZ19, PS15, Ter18, ZHC16]. **maximality** [HT17]. **maximally** [GW19a, Poo15]. **maximized** [dSN15]. **maximizers** [LT19a]. **Maximizing** [EH15, GRS17, HSS16a, Kol15, NLW18]. **maximum** [BWSZ15a, CU18, CC18, De 16b, DdF15, FdC18, HZC15, HLW15, HW15c, HZ15, IKVZ18, LMZRZ18, LLS17a, LLS17b, MO18, OS17, VQ17, XWL17, ZW16, ZWS18]. **maximum-volume** [MO18]. **Maxwell** [KS15b]. **Mazur** [WH19a]. **MB** [LQL15]. **MB-tensors** [LQL15]. **MCMC** [BL15]. **MCMC-based** [BL15]. **mean** [BHML15, BJL19, BK17c, FS18b, FS19b, HL17a, Hoa17, Hun18a, IKW16, KL15, KLL16, KLL19, Nob16, NK18, Pep17, SMH19, Zou17, Zou19]. **means** [BLY16, DKS17, DDF17b, DU16a, FS17b, Han19b, HK17, KK18, KLL18, LK16, MHA18, Mol19, Sab16, UWYY15, UYY17]. **measurable** [Bar17b, CRVSS19]. **measure** [BŚS18, DP15a]. **measure-extension** [DP15a]. **measurement** [Ema18]. **measures** [ACM17, AM16b, BFM19, HZC15, KL15, MS15a, MS15b, dlPJG18]. **mechanical** [BTN+18]. **mechanics** [BdP18a]. **median** [YYMK17]. **meet** [IHM08, IK18, Mat15c]. **meeting** [FLVV18]. **Melbourne** [Bar15]. **memory** [EM17]. **Mercer** [Nie15a]. **Merging** [MR17a]. **Merikoski** [AKYD16]. **Mertens** [CK19, Kli19]. **Metcalf** [MF16]. **method** [ATM18, BM17a, BW18, BW19, BFN15, BB18, BKLP16, BŚS18, BMS16a, Bel16, BV18a, CVV19, CGSC19, CP16b, Cox15, CFNP17, Fas19, FT18, FG17, GH16a, Guo19, HK18a, Her16, KR17, KH17, KPRvdO16, KL18b, MLW15, MH15, MP18, NZZ15, Pas19, RW16, Sch16, WP17, XXZ16, wXL14, wXZ19, ZLQ16, SK17a]. **methods** [AL19b, BT17a, BFM19, BHK16, CDRT17, DU16a, Gór17, Had17, HS19b, JKP16, LG18, LNT16c, Nik17a, OZ15b, PS19d, PW18, RR18a, SLY17, VK16, Zas16, ZZR15, Zhe19]. **metric** [CPZ16a, LCF19, Wol18]. **metric-preserving** [CPZ16a]. **metrics** [Ber17]. **Metzler** [Bri17]. **Milner** [GLW17]. **min** [MP19]. **Minimal** [Dod17, IKR16, Ple17, dCFF17, BR19, BSP18, BDP+18b, CR18a, DA19b, DA19a, DA19c, VD18, DPV19, DV19b, DL15, GLMPC18, dMGC19, HM17a, LWC18, LCNZ19, MM15a, OQ18, OS17, SP16, SS17b, DDMV16, DDV16]. **minimally** [FGS+16, SG16]. **Minimising** [BK17c]. **minimization** [CDTZ15, LC19]. **minimize** [JKS15]. **minimizing** [BBC18, DSX15, LS15a]. **Minimum** [BWSZ15a, CG16, FGG+18, HLPS19, PF18, AAG+19, Cos16b, DM16b, GS19a, HWXC18, JLDS18, LOS19, MS16b, NS18, NA17, NLW18, SWB19, ZM16]. **Miniversal** [Dmy16, Dmy19, BSS17]. **Minkowski** [Hor17, JM16, Liu16a]. **minor** [Bil19, Nik17c, RKT15]. **minors** [BS16e, BC15b, SUY16, dCdSA15]. **minus** [DFM17]. **minuscule** [MM15a]. **Miroslav** [RRS16]. **MISO** [BPZ17]. **missing** [Dal19, JZ18]. **Mitra** [Rak17]. **Mixed** [DS18b, MP18, WYLW17, ARS16, AM15b, Bar16b, CLZ16a, CP16b, De 16a, FKD15, Gow16, HLLZ17, KÖ16, LL15c, Moh16, ÖK18, RH15, Wan16b, WLWZ19, Wei15]. **mixing** [Lev15]. **Mn** [COS18]. **Mn2** [COS18]. **Möbius** [Bur18, CR18b, DGSV17, HM16]. **mock** [Zus17b]. **mock-Lie** [Zus17b]. **modalities** [Dog18]. **Model** [WLH18, BFFN16, BCMASS15, HvdD16,

KM18, LHC15, Mar15b]. **models** [DV18, Ema18, FL15, GH16b, HPZ19, KÖ16, ÖK18, QWW18, RH15, Ruk15, SNDM17, Wan16b, Zha15c]. **moderate** [ET16]. **modifications** [SSB15a]. **modified** [AL19b, CLLS19, JM16, JLM18, wXL14, wXZ19]. **Modular** [HMS17, SY15, Shi16a, TC15]. **modularity** [BBC+15, FT16, FT18]. **module** [CD16d, Gua18, IKR16, LT12, LT16a, LMX19, Shi16g]. **Modules** [HCS17, CPS17, Gon15, LZ16c, LZ15e, MM17a, MEMM17, XF17, Yan18, dSRST17]. **moduli** [AGS17, Pie18]. **modulus** [Cos16b, MS16b, XXZ16, wXL14, wXZ19, ZZR15, ZLQ16]. **modulus-based** [XXZ16, wXL14, wXZ19, ZZR15]. **Mohy** [Fis17]. **moment** [CIY15, CJ16b, DE15, EGT15, FKM17a, FKM17b, FKMS18, HZC15, LM17, Lop15, PS19e, Riv15a, ZHC16]. **moments** [Lék16]. **monic** [CK15a, FK16]. **monoid** [CDG16, CLR16]. **monomers** [NS15a]. **monomial** [Lax16]. **Monotone** [Sch16, BU18, DDF18, Hoa15, JS18a, Mas17, Naj17, Nob16, Pas18, iT16, iT19]. **Monotonic** [Grc18, AB15a]. **Monotonically** [ZF15]. **Monotonicity** [LG18, WL15, Cas19, DKS17, DDF17b, GMW18, Nag19, NW15]. **Monte** [WC15]. **Montgomery** [Cox15]. **Moody** [Sin17]. **Moon** [LN17]. **Moore** [AB18, CGMSR15, CGDM16, Dal19, HWZ15, KB15, Nor18, XW16, XSW17]. **Moreau** [Sol19]. **Moreau-type** [Sol19]. **Morphisms** [Cha19, EC19, CLR16, DKNS16]. **Morrison** [ACM15]. **Moser** [LN17]. **most** [Alf18b, CJ17d, EHK16, PS19a, TW17]. **Mostow** [GM17]. **MRD** [CMPZ18, GZ19]. **MRD-codes** [CMPZ18, GZ19]. **MUBs** [Kar16]. **Muir** [dCdSA15]. **multi** [AKPS19, CJ17b, KAPS20, XLQC16, Zas16]. **multi-dimensional** [AKPS19, CJ17b, KAPS20]. **multi-hypergraphs** [XLQC16]. **multi-level** [Zas16]. **multigraph** [McK18]. **multigraphs** [Gu16, O16]. **Multigrid** [CDRT17, BDDSC17, BHK16]. **Multilinear** [Ano16a, BMVW16, CW16a, BT15, BM17c, CR19a, DGK+17, DKS15, DK16, Fag19, LT16b, Pop16b]. **multiparameter** [HY18]. **multipartite** [BK18, BSMSZ19, HK19b, Obo19a, Obo19c, WYL19]. **multiple** [Ais18b, AM15b, BBT15, BDK+17a, BTN+18, CDMP15, CKM16, DKSV19, LPPZ19, NSCV16, PM15b]. **multiplication** [Beh17, CYD19, DK18]. **Multiplicative** [CGDM16, CL16, MRS15, XSW17, CJZ18, Hil15, Hil17a, MI16]. **Multiplicatively** [BL18c]. **multiplicativity** [San15]. **Multiplicities** [FdFdSDV18, Piv19]. **Multiplicity** [JZ18, ARSB18, BK15, BK16, BCJ+16, CR17a, CPR18, ET16, JDS17, JLDS18, JST19, LHH17, MQTW18, OS17, Row16a]. **Multipliers** [JC18, LH17, PQY15]. **multisplitting** [ZZR15]. **Multivariate** [CHK17, FKD15, Han19b, HKM18, KRZ+17, KRZ+18, KPRvdO16, LW15, LLH17, Lop15, Ruk15]. **Murdock** [Fik18, FM19b]. **mutation** [CKS16]. **Mutually** [BL16, Kis15, Lie18, MB15, Szá16, XX12].

Narayana [AMPT16, Bar16a]. **natural** [Lie18]. **naturally** [CLOK13, LMO16]. **Near** [MOR16a, DL15]. **Near-invariant** [MOR16a]. **nearest** [GKS19]. **nearly** [MOR16a]. **nearness** [HNR16, NR16b]. **necessarily** [Mon17]. **Necessary** [Bar17a, Li15a, LS17b]. **negative** [FW17, GSZ15, GSZ16, GJK18, JLM18, Koz16, LS19, MM19a, SZ17, TW17, Wol18, Zaj19]. **Neighborhood** [BSS17]. **Nekrasov** [OP19b]. **nest** [CL15a]. **nested** [AAC+15]. **network** [GZB19, QWW18, Sar19, SZW16]. **networks** [AM16b, Ban16, BS18c, CEGM16, CEM19, Est16, KKL+17, Kir15, Zha15c, UZ19].

Neumann [JC18, CHASSSG15, CQCZ19, CW15b, DHL+17, DGCC16, DU16b, DKPU18, LZ17c, PR18b, SCD17, WFS19]. **Neural** [SZW16, UZ19, QWW18]. **Newton** [SK17a, BV18a, CFNP17, EG19, EM17, Guo19, LG18, PM18]. **Nice** [CW17]. **NIEP** [Ben18]. **Nikiforov** [AR16]. **Nil** [BM16b]. **Nil-clean** [BM16b]. **Nilpotent** [GQ26, HA15a, IKVZ18, LS17a, QG17, AW15b, BdlCL17, BP19b, Bre18, BO17, Che18a, CXLF16, Chi18, DO16, EL16, GLAdS19, GS15, HA16, JS19, Pel17, Ste18, TXZ18, WL16, YT16, YdB19]. **nilradical** [BCS15, BCS16, CLOK13, LMO16]. **nilradicals** [KKO15]. **NMF** [Miz16]. **No** [LMT19, AM18, Nik17c, PZ17b, dFNP16]. **Nodal** [Urs18]. **nodes** [PCL15]. **Noetherian** [Kwo16]. **Noetherianity** [Bik19]. **Noise** [HKP17, Hoo19]. **Non** [ABG16a, AYK17, Bal17a, BPR17, JKS15, Ser16, Zus17a, AGHN18, BŚS18, BGCMLSSS16, BGdCCMSS17, DP16, FuIKT16, Fil18, FJ19, GSZ15, GSZ16, HLPS19, HAM16, JLM18, uIKF15, KM19, Koz16, KNR18, Kwo16, MM19a, Nev18, PP18, SSF16, SZ17, Vas15, WZL15, Yin19, Zaj19, ZG18, ZLQ16, Ziz16, cSfCfX15]. **Non-Archimedean** [ABG16a]. **non-autonomous** [SSF16]. **non-backtracking** [AGHN18]. **Non-bipartite** [JKS15, WZL15, ZG18]. **Non-commutative** [Ser16, KM19]. **Non-divisibility** [AYK17]. **Non-existence** [BPR17, Fil18, FJ19]. **non-extendability** [BGdCCMSS17]. **non-Hermitian** [BŚS18, Yin19]. **non-holomorphic** [Nev18]. **non-homogeneous** [Vas15]. **Non-integral** [Bal17a]. **non-Lie** [HAM16]. **non-modulus** [ZLQ16]. **non-negative** [GSZ15, GSZ16, JLM18, Koz16, MM19a, SZ17, Zaj19]. **non-Noetherian** [Kwo16]. **non-normal** [BŚS18]. **non-odd-bipartite** [FuIKT16, uIKF15]. **Non-Orthogonal** [cSfCfX15]. **non-Runge** [BGCMLSSS16]. **non-self-adjoint** [KNR18]. **Non-semigroup** [Zus17a]. **non-standard** [PP18]. **non-stationary** [Ziz16]. **non-symmetric** [DP16]. **non-zero-entries** [HLPS19]. **nonassociative** [Bre17]. **nonautonomous** [Dra18]. **Noncommutative** [DH19, DvSW18, LNW17, Pas18, Vol17]. **noncommuting** [Sot17]. **noncompact** [Saw16]. **Noncrossing** [dS18a]. **nondegenerate** [ZHC16]. **nonderogatory** [GLMS18]. **nonequispaced** [KP19]. **nonexistence** [FHH15, Mic16]. **nonincreasing** [DdC16]. **Nonlinear** [BB17, Cos19b, MS16b, WMC15, BHP17, Cos16b, Fay18, LM19, Mar15b, Sab19, WYL15, XXZ16]. **nonlinearly** [EH18]. **Nonnegative** [ES16, SA17, SJS15, TH16b, AG17, APS18, ARSZ15, AMR18, BF17a, BC17b, BS16f, CU18, CCCNT19, CHB15, EHK16, FBH19, FdC15, GH16a, HYY15, HK18b, JP16, JMP17, JS15, JRS19, Lee15b, LLV15, Lia17, LS17b, MPS17, MP16c, Shi16e, SW18b, SW18a, TCD15, VB18, WLP16, YHY15, Zha18c]. **nonnegativity** [AG16, AG17, GW19b]. **Nonoscillation** [Sug17]. **nonoscillatory** [SH15a]. **nonreal** [Sam17]. **Nonscalar** [Mel15]. **nonseparable** [HL17c]. **nonsingular** [AMG19, BBdH18, BHSS18, BWSZ15a, HWXC18, MY16, Sol18b, VQ19, ZLLL18, dFRS16]. **nonsingularity** [Liu15, Liu18]. **nonstandard** [AR18]. **Nonsymmetric** [Bou15, HZ15, Had17]. **nonuniform** [Col19, Dra18, Fre18]. **nonzero** [BOvdD17, FGG+18, Gao18, MM17b, RS17b, Shi17b]. **Nordhaus** [EA17, HL19a, LOS19]. **Norm** [CM16, GHK17, JLM18, AKS17a, AKS17b, AdlPR16, ARR18, AN17, Alo15, BLY16, CR19a, CLZ+16b, eFLYL15, GH16a, GS19b, GMO19, GLRT18, HT18a, Hay19, Hia16a, Hoo19, HMT19, Hu15, JM16, KMS17a, Li15b, LL15b, LCWZ19, Nik17a, NA17, OP16a, Pet15, Reb19, SPH15, SS15a,

Tan16b, WDFS17, XCJ18, Zha18c]. **norm/energy** [NA17]. **Normal** [JSST16, JT17, BŚS18, BD19, Cus17, DDL17, EG15, GSW16, GMP16a, GMP15, GMP16b, GMP16c, GBRS15, HZ15, HN18, IW15, IGW17, Joe16, KS15a, LWC18, Lin15b, LdlP15, LLH17, Nie18, Nie19a, SZ23, SG17a, YZZ18, dlCG18]. **normality** [BF18b, FKD15]. **normalizable** [MS16a]. **normalized** [BM17b, BCC+18, BDVRT15, BH16b, DS17a, LSZ18, MMM19, SY17, cSfCfX15]. **normally** [ARR18]. **normed** [BJC15, CSW17, KS15b]. **norms** [CDMP15, CL15b, ELN18, GMW18, JM16, JLM18, Ken16, Lev15, LT12, LT16a, MRS18, OP15, PSZ15, Sab15, WL15, Zha19b, Zou19, Nik16a]. **Northcott** [LZQ19]. **Note** [Ano18-44, BaHOS15, CLF18, DHL+17, ySpW17, Sri17, YG15, Bün17, Bur18, Dra18, FR18, GHT16, HKLQ16, HMSC19, Kum19, LHX18, LLS17a, LLS17b, NMBA19, NR17, Nor18, PS15, Rak17, Rod19, SZ23, SDK17, SSS15, Shi16e, Sin17, STW19, Str18, Wan15a, XF17, Zhu19, Zui17, dSRST17]. **Notes** [CW19, DU16b, SAdFZ15, DKPU18]. **novel** [DAG16]. **nowhere** [MS16c]. **nowhere-zero** [MS16c]. **NP** [BC17b]. **NP-hard** [BC17b]. **Nuclear** [Pop16b, BM17c, Hu15]. **Nuclei** [TZ19]. **Null** [KVV17, Ris16, CCW16, JMPS18, Kul15]. **Null-** [KVV17]. **Nullities** [TH17]. **nullity** [FdC18, zSqST15, WZ15, ZWS18]. **number** [ACT16, AAKS17, AB15a, AL15, Ash19, BL18b, CC17a, CLT15, CUPW15, CW16b, Cox15, DR16, FMY16, FdC18, HLPS19, HHL19, HZ15, IL17a, JL16a, JDS17, JLDS18, LOS19, Lin15a, Lin19, LL18a, LLT19, MWT16a, MWT16b, PF18, QKP16, Ram17, RMS16, TH17, TWM16, TW18a, Tom15, TD15, WM17a, WZL15, WWC18, Xu17b, ZLG17, Zim15, vDS16]. **numbers** [ABD19, BZ16a, CDR+19, Che18d, DTZ16, DS18b, KM19, Lee15b, ME15, Van17, WYL15]. **Numerical** [AOK15, Ano16a, Bal19, BBP19, BMVW16, CJK+16, GW16b, GWW16, GO18, KLN16, PW18, Sab18, She17, AOK19, AAS18, AMC18, AR18, AMR19, AK19, BFA18, Bal17b, Bal18, BFM19, BD15b, CJ17a, CDM19, CC17b, CCCNT19, CL16, CN15, CNY18, CN19b, CNM19, CJ17c, Dax17, DGP+15, FK16, GW16a, GW17a, GW18, GWW19b, GL19, GWW19a, HA15b, HMNP15, KS15a, KKP19, KMY15, Kum19, LNT16b, LLPS19, Lee15c, LTWW15, LSZ18, MR17b, SPBB19, SWZ18, Zam19, Cha15]. **Numerically** [PZ17b, PQY15].

objective [Fay18]. **oblique** [BB17, BMS15]. **observations** [Sma15]. **occasion** [BBF19]. **odd** [Ash19, DF15, DD18, ET18, FuIKT16, FKM17a, FKM17b, HZ17, uIKF15, LDL18, MWT16a, Yua14, Yua15]. **off** [BMR17, Lee15a, PPZ19, SP16]. **off-diagonal** [BMR17, Lee15a, PPZ19, SP16]. **often** [Sol18b]. **Old** [Fie15b]. **Oliver** [MB18]. **one** [BM19b, BCF+18, BCU15, EF17, EF19, FK18, FS19a, Gas19, HSS16b, JLDS18, KOST15, LS18b, SSB15a, TXZ18, EHHL17]. **one-dimensional** [EF17, EF19, EHHL17]. **one-parameter** [KOST15]. **one-peak** [Gas19]. **ones** [BL18b, TVD15]. **only** [FJ19, SS17b]. **Onsager** [BGV17, Ter17b]. **onto** [BFN15, FG17]. **open** [Beh17, DK18, YHY15]. **operations** [BN17]. **Operator** [HRM18, MEMM17, MHN18, NW15, SPH15, Uch15, WDFS17, AOK15, AKS17a, AKS17b, AEV16, AN17, AK19, ACM15, BBS16a, BU18, CFL16, CN19a, DDF18, Drn19, FS18b, FS19b, GS15, HJ19, Han19b, HPSS19, Hoa15, JS18a, JM16, KU16, LZH16, LN18, MF16, Naj17, OP15, OP16b, Pas18, PCI15, Reb19, SS15a, She17, Tan16b, UUG15, UWYY15, UYY17, WHC17, Zam16].

operator-valued [FS19b, HJ19, Zam16]. **Operators** [AR15b, DIR16, MMS16, Wój15, AB19, AAM15, AO18, And15, AAC17, AG18, ANAPSR17, ABGJR+18, AG15b, AG20, BFA18, BF18a, BG15, BLPT15, BŚS18, BBSS18, BDRC16, BMN16, Bob16, BT15, BM17c, Bou16a, CDMP15, CEM15b, CEGM16, CPZ16b, CDRT17, CMM19, DS19b, DSCD17, EE16, EJ17, EM15, EHHL17, EHLP18, FPGPV17, FKPS18, GSP16, He16b, HA15b, HK17, JLM18, Kim18, KL19b, KMS17a, KNR18, Lee19a, LTWW15, LWC18, Lju15, LD17c, LMX19, MS16b, Mat15a, Min17, Mol19, Nag15, NINS16, Nie15a, Nie15b, Pan19a, Pan19b, PSG16, PSM18, PMW19, PCI15, Pep17, Pie18, PPZ19, PR18b, Pop16b, PRS18, Rao17, Sab19, Sam17, SST15, Tur17, Vir16, WFS19, XF17, Zam19, Zem16, ZH15]. **Optimal** [ANAPSR17, CCO15, CFM16, GMP16a, Hon18, DDSC+16, Had17, lHS16, HK19c, JMPS18, La 16, LCF19, MRS15, NAS18, Sma15, WC15]. **Optimality** [Fas19, Li15a]. **optimisation** [CRC17]. **Optimization** [DH15, BA15, FS17b, FM17, Hil15, Kri15, Kur19]. **optimization-reusing** [Kur19]. **Optimizing** [BDDSC17, DeV19]. **Optimum** [GW17b, CLZ16a]. **OPUC** [MS15a]. **orbit** [IKVZ18]. **orbits** [BC15a, LNT16a, Lau18, MM15a, MBB+18]. **order** [ABO15, BP16a, BGV17, BBMFM17, CFNP17, DV18, DY15, DFM17, DD17c, GM15, GL17, Gao18, GH16b, GS15, HA15b, JKS15, Kar16, KH17, LS15a, LZ15a, LUC19, Lom17, PCI15, PM15b, PS15, PPZ19, SY16a, SL16, Shi19, Sug17, TH17, WZ17a, XSW17, ZWS18, dCFF17]. **orderability** [BS16e]. **Ordered** [HW15a, CKS16]. **Ordering** [YSS16, BOT19, LLS17a, LLS17b]. **orderings** [IKR16]. **orders** [AB19, BMGP15, CIMW15, ET18, Mos17, RD15, WL16]. **Orientation** [HM16]. **orientations** [COvdD16]. **Oriented** [Ref16, AdlPR16, CRRY15, CLL15, CL17a, CLR+18, DR19, HMT19, LHL18b, MWT16b, RS17a, WF19, ZXW19]. **original** [BS18c]. **Orthogonal** [Lin15b, Pan16b, War17, AM15b, BGV17, BF19b, BL16, CRX15, CG15, CJ16a, DEH16, DMQ19, DSCD17, DH19, FS17a, GGMPC15, GMP16c, HZ17, IR19, Jin15, LNT16a, LUC19, Mac18, MP18, Ota15, Riv15a, Riv15b, RAAGA16, RMP18, SNDM17, SJD16, Shi16d, Sim17, WQH19, ZS17, ZGW16, dlCMP15, cSfCfX15]. **orthogonalities** [Wój19]. **Orthogonality** [GSP16, AR15b, ABR18, CSW17, HHJM15, KL19b, KZ17, PSG16, PSM18, PMW19, SPH15, Tur17, Zha18b]. **orthogonally** [CW18b]. **orthoplex** [BH16a]. **oscillation** [EH18]. **Osserman** [NR16a]. **Ostrowski** [Nie19b]. **other** [CFW15, EA17, GSW16, KL18a]. **outcome** [LT19a]. **Outer** [BJKR17, BKNS18, LHC15, Shi17a, SSH15, SZW16]. **output** [Bel16, NN19b]. **outputs** [LPPZ19]. **overdetermined** [BW19].

packet [Far16]. **packing** [Gu16, LLT19]. **Padé** [PW18]. **pair** [BMS15, BGSS18, FHH15, Nom16, WHG17]. **Pairs** [SJD16, BGV17, BHSS18, BKS15, BKSP23, DdFR16, Dmy16, Dmy19, GMM16, GMM19, Lyn15, Mor17, NS15b, Nom15a, Nom15b, NT17, Ram16, RB16, SGH16, wXjMZL19]. **pairwise** [MC19]. **palindromic** [DDMP19]. **PARAFAC** [KL18b]. **parallel** [KH17, SdJY+16]. **parallelepipeds** [Bil19]. **parallelism** [Zam16]. **Parallelogramic** [LMP+17]. **Parameter** [AL19b, Zha15c, EH18, Fik18, FM19b, Gil16, KOST15, LMR16]. **Parameter-invariant** [Zha15c]. **parameters** [ACRR15, ACD19, BPZ17, HLW15, Ken16, KRZ+17, LHC15, Mic16, Wan16b]. **parametric** [HS19b, RW17]. **Parametrizing** [And15]. **paraorthogonal**

[Cas19]. **Parking** [MY16]. **Parseval** [KAPS20, AKPS19, MBB+18]. **part** [DU16a, DMQ19, KLY18, LNW17, Ter17b]. **Parter** [BEF16, JS18b]. **Partial** [CIMW15, FG16, RD15, WL16, WZ17a, BS15a, BC19b, Cho17a, Eld15, FX19, GS17, Mel19, Shi19, aHRT15]. **partially** [BW19]. **partite** [KNY15]. **partition** [GK15, JZZ18, NS18, WDFS17]. **partitioned** [Hir18]. **Partitions** [CC19, CDG16, RNC17, Abi19, ARSB18, CD16a, Col19, dS18a]. **parts** [MMS16]. **Pascal** [KT17, Zhe19]. **Pascal-like** [Zhe19]. **passage** [BK17c, Hun18a]. **Paterson** [Fas19]. **Path** [EHHL17, EHLP18, GL17, KKL+17, AHMM18, BPT15, DR19, PF18, dSN15]. **paths** [LN17, NR18, PS19b, YDYY18, ZLG15]. **pattern** [BES16, BWSZ15a, KSVW17, LP15, LT19b, OS17, SUY16, VQ17, VQ19]. **patterns** [BOvdD17, DB19a, EKSV14, EKSV18, FGG+18, FGH+15, GLZ16a, GLZ16b, GL17, Gao18, GM19, HZ15, LOvdD18, Liu18, MM17b, OvdDV17, Shi17b, Stu17]. **Pauli** [AMC18, RZ17, Sam17]. **payoff** [EW19]. **Paz** [GLMS18]. **PDE** [PCL15]. **PDEs** [Lom17]. **peak** [Gas19]. **Peirce** [ZMT19]. **Pellet** [Mel16b]. **Pellet-like** [Mel16b]. **pencil** [AHV19, Rin17]. **pencils** [BGT+19, BR16a, BDP+18b, DA19b, DA19c, DDL17, Dod16, Dod17, DHW18, dMGC19, HY18, NP15b, PD17, Sch17]. **pendant** [CPR18, PS19b]. **pendent** [NR18]. **penetrable** [BKLP16]. **Penrose** [AB18, CGMSR15, CGDM16, HWZ15, KB15, Nor18, XW16, XSW17]. **Penttila** [BM19a]. **per-nullity** [WZ15]. **Per-spectral** [WZ15]. **Perfect** [CGGV15, JKP+17, TFC19, CGK+17, Kir15, YG15]. **Perforated** [AGV18]. **period** [Cha19]. **Periodic** [Yam15, Ban16, Bre18, Fre18, GM15, SSF16, YSZ17]. **Periodicity** [KSTY18, MdlP16, KSTY19, Vas15]. **peripheral** [ZH15]. **periplectic** [CCW18]. **permanent** [CC18, GT18, Hut17, Liu17, Shc16, Shi16b, dS19a]. **permanent-on-top** [Shc16]. **permanental** [dS18a]. **permanents** [CP16b, CLLS19, KK17, Roo19, Sbu17]. **Permutability** [CI15b, CI15a]. **Permutation** [DF15, DF18, Ouy17, AJL16, Dah15a, TC15]. **Permutation-invariant** [Ouy17]. **Permutation-like** [DF15, DF18]. **permutative** [PT19]. **permuting** [Sim17]. **Perron** [AG16, ACD19, FK16, GH16a, JP16, Lia17, LT19b, Tar18]. **Persymmetric** [JS15, SJS15]. **Perturbation** [CL19, GM17, GCQX15, IGW17, SZ23, Sku17, AG17, CR17b, CGDM16, JLT17, JZ16, KR17, LWY16, MM16a, OVW18, PM15b, SK17b, cSfCfX15, Wei17, XL18, Xu17b]. **Perturbations** [CEM15b, XS17, BLPT15, BM19b, DFK+15, VD18, DV19b, Hun16, MS15a, MRS15, SV17, WHC17, XSW17, wXjMZL19]. **Perturbed** [CFP18, GHT16, Rum18, RB19]. **Perturbing** [WLP16]. **Petersen** [COvdD16, KMM17]. **Pfaffians** [EW19]. **Phase** [HJ19, BZ16b]. **Phase-retrievable** [HJ19]. **Phelps** [DGK+17]. **phenomena** [KY15]. **phenomenon** [Gho16, SW15]. **Picard** [BFN15]. **piecewise** [GBRS15]. **pineapple** [TSH16]. **pivoting** [PZ17b]. **pivots** [Kur19]. **planar** [VG18]. **plane** [BJC15, CRC17, FJ17, FJM18, LP18]. **planes** [ET18]. **planted** [Col19]. **plateaux** [Gho16, SW15]. **player** [LT19a]. **pluripotential** [Wan19]. **plus** [BR16b, BDS15, DS19b, EHN16, Hoo15, Hoo19, Li19, Mys16, RLP19, Shi16b, WT18, ZD15]. **Poincaré** [AL16]. **point** [Bai18, EP18a, FGG+18, FG17, Had17, KLL16, KLW16, KLW18, Kur19, LSM16, LSM18, RR18a, WMC15]. **point-hyperplane** [FGG+18]. **points**

[BDG15, BDM18, CN17b, Eve18, FL16, HLM17, HMPT18, Jel18, KLW15, NAS18, Rao17, WWT18]. **polar** [De 16a, FX19, GMP15, GMP16b, Pan16a, Shi16a, Sol19, SG17b, dlCMP17b]. **Polarity** [Sol18a]. **poles** [PW18]. **poly** [RT16]. **Pólya** [MF16]. **polyadic** [DD17c]. **polygons** [HMNP15, VG18]. **polyhedral** [SPBB19]. **Polynomial** [KS15a, RLP19, SS16, DDMV16, VT18, Win16, YT16, AMR19, AGS17, AP15a, BY19, BBdH16, BBdH18, Ben18, BLdSV19, BR16a, BV18a, CJRMF+15, CK15a, CLQW17, Che18a, CCD19, Cox15, DMQ19, FJ17, FJM18, Fio16, GK15, HWZ15, KPL18, KMS17b, Lie18, LW15, LL18b, Mel15, MMW17, NN19b, Shi16f, VV18, WW18, WZ19, YdB19, dB19b, dlP18]. **polynomials** [AO18, ABG16a, AMZ17, ABD19, AEV15, AM15b, BGV17, BJS18, BBP19, BB16b, BDFR15, CDR+19, CW18a, Cas19, CG15, CM18, CCGO17, CCGV+19, CK15b, CJ16a, CKM16, Cim15, CP17, CW16a, DA19b, DDMP19, DP18, DD17b, Dmy17, DD18, DPV19, DK16, Fag19, Fas19, FS17a, FS18a, FM19a, FK16, GGMPC15, GIM16, He16a, HK19a, HY18, HZ19, IR19, KM15a, KPL18, KMM17, Lee16, Liu17, LM17, LMR16, MO16, MP16a, MW15, MNTX16, Mel15, Mel16a, Mel16b, NS19, Niv15, Ota15, Ouy17, PM18, PP18, Ple17, Reb19, Riv15a, Riv15b, RV18, Sas18, Ser16, DDMV16, Tya17, WLWZ19, Yam15, Yan18, Zem16]. **polyominoes** [CEM15a]. **polytope** [CC19, HLM17]. **polytopes** [AK17, Fer15, GSS15, JK15, kJ16, NT18, SS19, War17, WH19b]. **Poncelet** [CN15]. **Popov** [RRV15]. **Popoviciu** [BS15d]. **population** [DOR16, HvdD16]. **portions** [JSST16]. **posed** [BB18]. **poset** [FI19b, Liu16b, Nag19, NS19, Ter18]. **posets** [CX17, GSZ15, Gas19]. **Positive** [BDRC16, BS16c, CJ16b, Gow17, GLRT18, JLNR15, SK17b, AL18, ACM17, BP16b, BS15d, BJL19, BC19a, BDS15, BL19, BDK+17b, BV18b, CPZ16b, Cho17b, Chu15, CJS18, CSJ16, CLS17, DB19a, DKS15, DLB18, Drn19, EA17, FMY16, FW17, Fie15b, FG17, GS18, GdLL17, GHT16, HT18a, Hay19, HJW19, HL17a, HW15b, HK17, Jai17, JZ16, Kan16, KS17, KL15, KLL16, KQZ16, KL17, KM16, Kus16, LNW17, LPW16, LS19, Lin17a, LZ17b, LNT16c, MR17a, MM16a, MMP17, MMV19, Min17, MS15b, Mol19, MPV16, Nie15b, NR17, Pep17, PR19, Riv15b, SFW18, Sal16, Sch16, SST15, SA17, SDK17, SSV17, Sim18, Sim19, SH15b, SUY16, STZ15, Ter17b, Ulu19, Vir16, WWT18, XLQC16, YLT16, ZH17, Zha18a, Zha19a, ZF15, dS19a]. **positive-definite** [ACM17]. **positivities** [Xu16]. **Positivity** [SNP16, CLW15, CW19, FJS17, FJS21, LG18, MGM17, Skr17, YMZ19]. **Positivstellensätze** [KVV17]. **possessing** [SSH15]. **possible** [BaHOS15]. **posteriori** [Fis17]. **potence** [Stu17]. **potent** [SR18, Stu17]. **potential** [CDFK19, Fay18]. **Potentials** [DMS16]. **potents** [XFZD17]. **Poupard** [FHS17a]. **Power** [Lee16, LY17, BV18a, CJS16, CM19, DD19, DKS17, DF15, DF18, DDF17b, FuIKT16, GH16a, HNS15, JZZ18, KL15, LG18, MG18a, TCD15, UWYY15, VB19, aHRT15]. **powers** [BGKP19, Ege16, FJS17, FJS21, GWW19b, GWW19a, Jai17, Mag16]. **PPT** [Car17, Lee15a]. **pre** [Mos17]. **pre-orders** [Mos17]. **precoherent** [DD16b]. **Preconditioned** [VK16, BT17a, BA15, Miz16]. **preconditioner** [Bai18]. **preconditioners** [Hon18, LSM18]. **preconditioning** [AL19b, DDSC+16, NSCV16, RMKJ18]. **predictions** [KÖ16, ÖK18]. **Preface** [BFH+17, BDIM15, BBF19, CFH+16, DLW15, FLVV18, GPW15, GHPS19]. **preorders** [BES19]. **preprocessing** [PZ17a]. **prescribed** [APS18, BL18b, Bal15c, DS17b, HK18b,

KPL18, SJS15, WYL19, YZLC18]. **presence** [GLMS18]. **preservation** [CYD19, MR17b]. **Preservers** [Ben15, BBS16a, BBSS18, CLP16, EP18b, Poo15, ABM18, AMR19, AEV16, BS16b, CCCNT19, CL16, GW19a, HSS16b, LL17, LCLW18, LD16b, LD17b, NA15, Oik19, Ore16a, Ore16b, dSP19a, dS19a]. **Preserving** [STZ15, AAM15, AR15b, BN17, BM15, BL18c, BMGP15, Bur15, CPZ16a, CHK19, CC17b, CV17, Cos16a, Cos16b, Cos19b, Dmy17, DdC16, EJ17, EM15, GJK18, HF18, HYH15, HM16, HLS+16, KP17, KM16, KLS17, Li15b, LLL17, MS16b, MS15b, MPV16, Pan17, Pan19b, Pet15, SdJY+16, Vir16, Wój15, Wój19, XFZD17, ZH15, Zha18b]. **Press** [Bar15]. **pressing** [CD16c]. **Primal** [Fay18, RR18a]. **Primal-dual** [Fay18, RR18a]. **primary** [FI19a]. **prime** [DD16a, DD19, DF15, VB19]. **prime-power** [DD19, VB19]. **Primitive** [BS16b, CLN15, FGS+16, HYY15, SG16, YHY15]. **Principal** [Bil19, LZB18, ÖK18, BC15b, BCF+16, DdSJdFDV15, FOvdD16, FMR18, Gas19, HR17, HJ16, LKY16, Miy19, RKT15, Ris16]. **principle** [NR16a]. **principles** [NT19, Nie18]. **priori** [KL19a]. **priors** [RH15]. **prisms** [CCdFV18]. **privacy** [HLM17]. **probabilistic** [FM17, WO17]. **probability** [GCQX15, KL15, LZ15a, Lie18, SY16a]. **Problem** [GQ26, AO18, ATM18, AA16, ACM17, ACE15, BZ16b, BR19, Bel16, BF17a, BP19b, BC17b, BC16b, CW18a, CJ17a, CG19b, CGDM16, CL17a, CL15c, CI15a, CQ15b, DM16b, DS18b, Dod17, DE15, DN16, DN18, FPGPV17, FKM17a, FKM17b, FKMS18, Geh15, Gil16, GS18, Had17, Hil15, IR19, JP16, JMP17, JP18, JS15, Lee15c, LLH17, Ma15, MPS17, Miz16, MS16c, MK18, NMBA19, NN19b, dSP19b, dSP19c, Piv19, PS19e, Pud16, RMKJ18, RKT15, Riv15a, SdJY+16, cSfCfX15, SW18b, Ste15, SS17b, Tan16b, VB18, Wei15, XL18, Yua16, ZLQ16, BDM18, ES16, QG17]. **problems** [Ais18a, Ais18b, BT17a, Bal15b, BP16a, BB18, BMS16a, BGCMLSSS16, BC19a, CLQW17, CFNP17, DHW18, EH18, Fay18, FKPS18, GM15, GM16a, HJ16, HPZ18, Hoo19, HZC15, HNR16, HL19a, IK18, JLD17, KU16, Kri15, LZQ19, LLL17, LDL18, Mat15b, MP18, MT15, NN19a, NS15a, NR16b, SLY17, STZ15, Van16a, WZL17, WLL19, XXZ16, wXL14, wXZ19, Yin19, YHY15, YSZ17, ZHC16, ZD15, ZZR15, ZC15]. **procedure** [FKRS17]. **Proceedings** [CFH+16, GPW15, FLVV18, GHPS19]. **process** [CG15, CLM19a, DHLT19, Lin16a]. **processes** [CLR19, EHHL17, EHLP18, Hun18b]. **Procrust** [AA16]. **Procrustes** [BC19a, GS18]. **Product** [BS15b, HN18, LPW16, AAM15, ABM18, AGQ19, AMV17, ALH15, AL19b, BK19, BM15, CPZ16b, CF18, CJZ18, DD17a, DdC16, EH15, FZwCW16, FK18, FS19b, GW16b, HJW19, HL17b, Huh15, LK16, LTWW15, LHC15, Mag16, MSSZ17, Pet15, SWB19, Sod18, SG17a, SG17b, WW18, YLB15, ZD16b, dlC15, dlCdR17]. **Products** [AG18, Bot16a, CLS17, GS15, dlCG18, AJL16, BR15, BBMFM17, Ben15, BBS16a, BBSS18, Bre17, CQ15a, CHK19, CKL17, CLP16, DGSV17, FJS17, FJS21, FI16, GW16a, GW17a, GL19, GF17, GX17, Hil17a, Hil18, HLZ17, Hou19, Hou20, HSS16b, IKW16, KKA15, LL17, Lot15, MX16, PP18, XCJ18, XFZD17, Xu17a, ZH15, Zha18c]. **Profiles** [CKS16]. **program** [Li15a]. **programming** [BT17a, Fay18]. **programs** [CJ17c]. **Projection** [BFN15, CVV19, SXD16, BKLP16, CYD19, Col19, CFNP17, DY15, FJP15a, FG17, LNT16c, Miz16, NZZ15, NN16, Pan15b]. **projection-cost** [CYD19]. **Projections** [KM18, PR18b, And15, AG18, BB17,

DSCD17, FS19a, FJP15b, GMP16a, LCNZ19, LMX19, SJD16, Sim17]. **Projective** [CLUP17, De 16a, BBT15, BH16a, Che15b]. **Prony** [KPRvdO16]. **Proof** [AL15, Das15, Das18, Gho16, Lin15a, TWR15, XS18, Yua16, AB15a, CS15b, Lax16, Mic16, MB18, YQS16]. **Proofs** [PQY15, BR17, ZZR15]. **propagation** [KL19a, LY16]. **proper** [RH15]. **Properties** [RGPH16, BBMP19, BBC+15, BJ15, Bri17, CLR16, CJKM19b, CJKM19a, CGL16, DHW16, DvSW18, Egg15, EM15, EB17, FZL+17, Fik18, GLMPC18, Hua15, Hun16, JS16, KSMB15, Kri15, Lin17a, LT19b, MB15, Mor17, PP17b, PS17, SS15a, SY16b, SY17, SZ19, SB18, SZB19, Tsa16a, iT16, UYY17, ZLKB17]. **property** [AAdFS19, BPP16, BPP17, CCW16, CV17, Far19, Kim18, PS18a, Tar18, WH19a, Lin16a, SS17a]. **Providence** [GPW15]. **Pseudo** [CLQW17, OZ18, PHW16, Xu17a, BBS16a, GK15, Hol18, MY19, Niv15, PR18a, Ter17a]. **Pseudo-direct** [Xu17a]. **pseudo-Euclidean** [PR18a]. **Pseudo-inverses** [PHW16, Niv15]. **pseudo-partition** [GK15]. **Pseudo-skeleton** [OZ18]. **Pseudo-spectra** [CLQW17]. **pseudo-unitary** [MY19]. **pseudographs** [XCQ18]. **pseudoinverses** [FG16]. **pseudospectra** [AGV17, AGV18, CJ17a, SKC18]. **Publishing** [Bru16a, Tsa16b]. **PWS** [RT16].

QBD [DHLT19]. **Qing** [Bru16a]. **QR** [Bur15, LLL17]. **QRD** [GM16b]. **Quadratic** [DDMP19, LZ15d, PC15, dB19b, BM17a, BT17a, BdlCL17, CM18, CLM19a, DP18, DSX15, Dym16, FJ17, FJM18, FNX19, IKR16, MP18, OZ15a, CLR19]. **quadratically** [Ais18a, Ais18b]. **quadrature** [JKP16, PCL15, RRT16]. **quadrifocal** [Oed17]. **quandles** [KL18a]. **Quantity** [Kim18]. **Quantum** [OP16b, Vir16, BS15a, BdP18a, BN17, CLHL15, FL16, FH19, HJ19, HYH15, HK19a, HPSS19, JKP+17, Kir15, KIS18, KSTY19, Lev18, LPP15, LZ16c, SGH16, SCD17, Vir19]. **quartic** [CR17a]. **Quasi** [AJL16, Hil18, CLM19a, Dod16, Dod17, EM17, FMR18, FNX19, GMM16, GMM19, KLS19b, LL15a, MM19a, PR19]. **quasi-birth-and-death** [CLM19a]. **quasi-Cartan** [MM19a, PR19]. **quasi-commutative** [GMM16]. **quasi-commuting** [GMM19]. **quasi-convexity** [FNX19]. **quasi-double** [LL15a]. **quasi-Newton** [EM17]. **Quasi-permutation** [AJL16]. **quasi-regular** [Dod16, Dod17]. **quasi-unipotent** [KLS19b]. **quasiconvex** [BKNS17]. **Quasiseparable** [BR16b, DEH16, MR17b]. **quaternion** [HWZ15, Yin18]. **quaternionic** [AR18, ABC+16b, AS17, CDM19, CN19b, HM16, KMS16, Kum19, Wan19]. **quaternions** [FKS16]. **qubit** [CF18]. **qudit** [Ouy17]. **question** [Lin17b]. **Questions** [BCJ+16]. **queues** [BDLM16]. **quiver** [Gon15]. **Quotient** [Fio16, SK17a, DdFR16, YYSX19]. **Quotient-polynomial** [Fio16]. **quotients** [HF18, HK19c].

R [Bar15]. **Racah** [LHG15, NT17, Ter17a]. **radial** [BBSS18, HT18b]. **Radii** [HR16, BFMK18, CLL15, CL17a, GW16a, GW17a, GL19, LZB18, LZM16, OQY17, TWM16, XWL17, XWD18, YSS16]. **radius** [AOK15, AO18, AOK19, AK19, BL18a, BL18b, BF18a, BBS16a, BBP19, BSS17, BJLD17, Bün17, CM17, Cha15, Che19b, CJ17d, Drn19, EJ17, EH15, FuIKT16, FBH19, FCL+16, GH19, GW16b, GW18, Gol16, GMW18, GZ18, HSS16a, JL16a, KNY15, uIKF15, KMY15, LS15a, Lia17, LZ15c, LZ16a, LZ16b, LZW17, LZ17a, LHX18, aLwW15, LLZ17, LWCL19, LM16c,

LHH17, MMM19, Mol18a, Mor17, Nik17c, NLW18, NLWJ18, Obo19a, Obo19c, PS19b, Pep17, PV17, Sab18, She17, XSW19a, XS18, XLLS18, Zam19, ZLG17, ZLKB17]. **raising** [Ter15]. **Ramanujan** [CV17, DTZ16, San15]. **Randić** [AdFRR18, BM16a, GRS15]. **Random** [OVW18, PQY15, BŚS18, BB16b, DMS16, DE15, GJLS16, HLLZ17, Hua19, LLH17, Liu18, OBRA15, PSZ15, RR18b, RJK18, Ruk15, SH15b, XL18, Yas16]. **Randomized** [NZZ15, BW18, BW19, BDK+17b, CYD19, PZ17a]. **Range** [ACM15, dSP15, dSP16e, AAS18, AMC18, Bal17b, Bal18, Bal19, BS19b, CJ17a, CC17b, CCCNT19, CN15, CNY18, DFM17, FK16, HA15b, Kum19, LNT16b, LLPS19, LSZ18, Rub19, XF17]. **Range-compatible** [dSP15, dSP16e]. **ranges** [AR18, BFA18, BD15b, CDM19, CL16, CN19b, CNM19, CJK+16, GWW16, GWW19b, GWW19a, HMNP15, KKP19, KLN16, Lee15c, LTWW15, SWZ18]. **Rank** [BBS16b, DdC16, GS16, Hua15, MV16, AAS18, AAG+18, AMC18, Alf18b, ARSZ15, Al'17, Bal15c, BES19, BLPT15, BM19b, Ber17, BR16b, BS16d, BDS15, BC17a, BA15, BCU15, BWSZ15a, BCF+16, CU18, CF18, CHB15, CJZ18, CCO15, Dax17, De 16b, DDL17, DM16b, DAG16, DPJ17, DD17b, DD18, DR17, EHK16, EM16, FOvdD16, FMR18, FS19a, GH17, GS19b, GdLL17, GCC18, HKM18, HHL19, Hir18, HMNP15, HSS16b, Joe16, Jør15, KKP19, KU16, LCF19, LWX17, LWZ18, LHL18b, MWT16b, Mes17, Mor17, ME15, OVW18, PQY15, Pan19b, PS18a, PRS19, PC15, dSP16a, dSP16c, dSP16d, PF18, RSS17, Rub19, Shi18c, Shi19, SZW16, SSB15a, Tok17, TW18b, VQ17, Van17, WYLW17, WF19, ZXW19, ZM16, Zui17, dB19b]. **rank-** [Hir18]. **rank-1** [GCC18, Joe16]. **rank-metric** [LCF19]. **rank-one** [FS19a, SSB15a]. **Rank-revealing** [MV16]. **rank/trace** [BES19, Shi19]. **Ranks** [FGH+15, BS18b, FGG+18, dMGC19, Mat15b, MHN18, SP16, WLWZ19]. **Rao** [Rak17]. **rapid** [PCL15]. **rate** [BW18, GKS18]. **rates** [bCR18, JMRV16]. **ratio** [Bün17]. **Rational** [CA18, Duk12, Duk15, SSV17, AB16, AL18, AL19a, AMZ16, CMV19, CFW15, DA19a, DA19c, DMQ19, EG19, Fas19, FKRS17, JMRV16, JT18b, RV18, RAAGA16, Van16a, Vol17, WQH19, BDM18]. **rationally** [KVV17]. **Ray** [Liu15, LT19b, Liu18, Stu17]. **Rayleigh** [SK17a]. **rays** [Dah15a]. **re** [LC19]. **re-weighted** [LC19]. **Reachability** [MP19, PS18b]. **Real** [BP19a, BS16d, CW18a, DGP+15, FI16, KKP19, Alf18b, AL18, BD15a, BZ16a, BKRE18, BCS15, BR16b, BS19a, BC17b, BS18b, Bün17, Bur15, CJRMF+15, Che18d, CL17b, CHB15, DAG16, EE16, GM16b, JP16, LNT16a, LS15b, LDL18, MS19, MM15b, NMBA19, NN19a, RE16, RGPH16, Sei18, SSB15b, TY15]. **realizability** [CJS18, DDMP19, GMM19, HMPT18, JMPS19]. **Realizable** [AMR18, MAR17, MN19a, BPZ17, HMPT18]. **realization** [AL19a, BR19, JRS19, SUBG18, DDMV16]. **Realizing** [PT19]. **receptance** [WZ17a]. **Recessive** [SH15a]. **reciprocal** [BPP16, BPP17, PP17b]. **reconstruction** [BKLP16, BBT15, BS18c, SS16]. **recoverability** [WLH18]. **Recovering** [Col19, RJK18]. **Recovery** [AB16, DA19c, DA19b, DA19a, FS19a, FKRS17, KSTX15, LL16b, LS15c, RSS17]. **Rectangular** [MO18, BL16, CLT15, Hua15, MM16a, YZL+19]. **recurrence** [IR19]. **recurrences** [ABO15, EJ19, Grc18, LMR16]. **recursions** [BF17a]. **recursive** [ATM18, CLW15, HK18a]. **Recursiveness** [LY16]. **Redheffer** [CK19]. **Reduced** [Pie18, CFP18, Cos16b, MS16b, TH16a]. **Reducibility** [CN17a, KMOR19]. **reducing** [BF19a]. **Reduction** [BGSS18, dFRS16,

BK16, BŚS18, BR16b, BMR17, BF19c, CQ15b, Fay18, GP19a, HPZ18, HPZ19, JLNR15, Lom17, Mar15b, Van16b]. **Refined** [COvdD16, BBdH16, BBdH18, BOvdD17, Nie15a]. **refinement** [AL19b, JZC19]. **Refinements** [JM16]. **reflection** [BS19a]. **reflective** [DDSC+16]. **Reflexive** [NT18, SR18]. **reflexivity** [Oi19, Pan19a]. **reformulation** [Ste15]. **regions** [Guo19]. **registers** [BR19, CUPW15]. **Regression** [Tyg19, BHML15, Eld15, Hoo19, KM18, NN16, ÖK18, RR18a]. **Regression-aware** [Tyg19]. **Regular** [CD16a, CLZ16a, LS18b, Rai19, WYL19, AAG+19, Abi19, ARR18, AyLPS18, AAKS17, ÁKM17, AP15b, AM18, AB18, BK17a, BS18a, BPR17, BF15, BGGS16, CHASSSG15, CGGV15, Dod16, Dod17, lFwW16, FJKM18, GK15, GLW17, Gre18, GJLS16, GL16, HH17, IM19, Jør15, LwW16, LHG15, MMP16, MM17a, MM17c, Nik16c, O16, PB16, QKP16, Row18, Sim19, Tom15, VGG17, WQH19, ZM16]. **Regularity** [RS18, HKS19, KKS18]. **Regularization** [HNR16, CLZ+16b, HKP17, NR16b]. **regularized** [CCO15, ZC15]. **regulator** [ZD15]. **related** [AKYD16, BGCMLSSS16, BD19, Cho17a, Cho17b, CM16, Duk12, Duk15, Hia19, HZC15, JM16, JLM18, LL17, Lin16b, LM17, LMP+17, STZ15, WZ19, Zha19a, dlPJG18]. **Relating** [EG15]. **Relation** [DM16a, TW18a, BBdH16, BBdH18, CJS16, LS19, Obo19c]. **Relations** [DMG17, HS19b, Hu15, ÁKM17, ACRR15, BTW16, CS18b, DY15, GJK18, PR19]. **relationship** [BBM19, LHL18b]. **Relationships** [LL16a]. **Relative** [BD15b, MVPST19, CSJ16, FS18b, GR15, MH15]. **Relaxed** [DD17c, BT17a, Had17]. **relevance** [OW17]. **reliability** [MP17]. **remark** [FX19, Tur17, WM17b]. **Remarks** [Lin16c, Nik16c, BFY18, BTN+18, Gol16, kJ16, JMM16, LW15, Shi17b]. **removing** [JST19]. **rencontres** [FM19a]. **renewal** [Hun18b]. **Rényi** [DHL+17, Hia19]. **Repetition** [KLL18, DA19b]. **repetitions** [PD17]. **representable** [MFdM15]. **representation** [BT17b, CNY18, CN18, DAG16, HMS17, HNS15, HKP17, Kli19, Mel15, Ruk15, SZW16]. **Representations** [AG15b, AG20, Che18d, Che15b, CHK17, EG19, Gae16, HJ19, HJW19, JT18b, KMS17b, LP18, LH17, Ple17, Sch15, Sri17]. **Representing** [CK15b]. **require** [GLZ16a, GLZ16b, GL17, Gao18]. **requiring** [LOvdD18, LT19b]. **rescaling** [Bil19]. **Residual** [Lan15]. **residuals** [HKP17]. **residue** [HSTW17, Ris16]. **residues** [BES16, PW18]. **Resistance** [ABK19, CEM19, Cho19, Som17, WDV17]. **resolution** [CS15a, GLMS18]. **resolvable** [KVV17, Ma16, Mic16]. **resolvent** [AHV19, KLL17, Riv15a]. **respect** [AR18, BS16d, CFNP17, MS16a, Nom15c, Pop16b]. **response** [LLL17, WZL17]. **Restricted** [DKNS16, EF17, EF19, Ruk15, CCW16, KÖ16, YDYY18]. **Restriction** [Bal19]. **result** [Bal15b, BÓ15, CDR18, Dra16b, LZ17b, NW19, Nie19a, She16, TY15, Vij15]. **Results** [FJS21, AA19, Bal15a, BR15, BU18, BFMK18, CD16b, Che18b, DV18, DPR19, FHH15, GS15, KMOR19, LL17, LZH16, Lin16c, Mel16b, cSfCfX15, YHY15, Zha15b, ZM16, FJS17]. **retrievable** [HJ19]. **retrieval** [BZ16b]. **reusing** [Kur19]. **revealing** [MV16]. **reverse** [Kal18, PCI15, XSW17]. **reversion** [Bar16a]. **Review** [Bar15, Bru16a, Tsa16b, Zha15a]. **revisited** [Al'17, ELN18, KLS19a, Mac18, dSP16c, RY15, TH17, Wan16c]. **Revisiting** [BF17a]. **reward** [DHLT19]. **Riccati** [DP15b, AM16a, AMV17, Bar17a, BB16a, DP16, DPJ17, GL16]. **Ricci** [DvSW18]. **Rickart** [DD16b]. **Ridge** [Ema18, KÖ16, RR18a]. **Riemannian** [BC19a]. **Riesz** [Chu16]. **right** [Dra16a, HPZ18, LT12, LT16a]. **right-hand**

[HPZ18]. **rigid** [BCS15, BCS16]. **rigidity** [Alf15]. **rigorous** [LWY16]. **ring** [Bou16b, CS18b, GLAdS19, Mig16, ZZC15]. **rings** [AA17, BBEE18, CHASSSG15, Che18a, CQS18, DGCC16, DGGP18, DD16b, Ere16, GM19, GL15b, GL15a, HLZ17, Hou20, HWZ15, HSTW17, KT19, LZ15d, dSP16b, QH15, RD15, Ris16, Wan15b]. **Riordan** [BT17b, Bar16a, Bar19, CW19, CJ15, CKS16, CJ17b, CHK17, CJB18, CS18a, CJKM19b, CJKM19a, He15, He16a, HS16, He16b, HS17, He18, KZ17, LMR16, LMM$^+$16, LMPM17, MN19b, MMW17, WZ19, YDYY18, YDHX18, Zem16]. **Ritz** [TLL15, Vec16]. **RKFUN** [EG19]. **Roberts** [ABR18]. **Robust** [CJ16d, FM17, PMB15, WLH18, CJ16c, FJMP15, LS15c, TLL15]. **Robustness** [VD18, DV19b, Miz16, MP15b]. **Roger** [Bar15]. **role** [BBEE19]. **ROM** [Hür15]. **Root** [MM19a, Guo19, Lia17, LG18, Miy15, Vij15]. **rooted** [ADW19, Sal16]. **roots** [AGS17, BDK$^+$17a, DKSV19, MP16c, Shi16e, TH16b, VV18]. **Rosenbrock** [CHASSSG15]. **roses** [HvD18]. **rotation** [BS19a, SÖ16]. **rotations** [DSCD17]. **Rotfel'd** [Zha19b]. **Roth** [DFKS17, FKS16]. **Rough** [Gal19]. **roundoff** [Fis17]. **Row** [HS16, MMW17, DV19b, Ege16, GWW16, RS17b]. **row-stochastic** [Ege16]. **rules** [Cho19, Joe16, RRT16]. **Ruling** [JMP17]. **Runge** [BGCMLSSS16, BDDSC17]. **Russo** [BL19].

Saad [Vec16]. **Sabidussi** [KM19]. **saddle** [Bai18, Had17, Kur19, LSM16, LSM18]. **saddle-point** [Bai18, Kur19, LSM18]. **safe** [PZ17b]. **Said** [MM16a]. **Sakamoto** [TW16]. **Salpeter** [SdJY$^+$16]. **same** [AMZ17, ZLS17]. **sample** [CIY15, MNT19, iT16, iT19, Yin18]. **samplers** [RH15]. **Sampling** [BKLP16, BMS15, Fre18, KL19a]. **satellite** [EB17]. **satisfaction** [MT15]. **satisfy** [PP17b]. **scalar** [GX19, Mel15, Mel16a, SG17b]. **scale** [BB16a, EM17, HK18a, LMS15]. **scaled** [VT18]. **scaling** [Mac16, Nat19]. **scalings** [CC17a, Hut17, Kus15]. **scatterers** [BKLP16]. **scattering** [GHS16]. **Schatten** [CL15b, CM16, JC18]. **scheme** [BM19a, CHJM18, Jel18]. **schemes** [CDRT17, CGGV15, Han19a, JCW19, Mor16b, MX16, Shi16a, WG15]. **Schmidt** [AK19, MHN18]. **Schneider** [BMS16b]. **Schoenmakers** [SSCS16]. **Schrödinger** [LM19]. **Schubert** [Lax16]. **Schultz** [BB18]. **Schur** [CGMSR15, CMM19, FKM17a, FKM17b, GP19a, KK17, Nie19b, PM15a, dSP19a]. **Schwarz** [FS19b, JM16, Kal18]. **Scientific** [Bru16a, Tsa16b]. **scrambling** [SG16]. **SDD** [WLL19]. **SDP** [CJ17c]. **SDPs** [BF19c]. **Seak** [Bru16a]. **Seak-Weng** [Bru16a]. **secant** [Han18]. **Secants** [MM15a]. **Second** [CCW18, BP16a, Bar15, BSP18, CLM19b, CFNP17, GM15, KT17, KMS16, Lin15a, MHL15, Mar15a, SY16a, SAdFZ15, Sug17, TW18a]. **second-order** [BP16a, GM15, SY16a, Sug17]. **sectional** [Opo16]. **sections** [Kum19]. **Seidel** [BSMSZ19, Riz19]. **selection** [Cox15]. **Self** [BPP17, MY19, Tya17, WHC17, AG18, GG18, GR15, Gow16, KNR18, Nag15, Nie15a, Pan19b]. **Self-adjoint** [MY19, WHC17, AG18, GG18, Nag15, Nie15a, Pan19b]. **self-dual** [GR15, Gow16]. **Self-interlacing** [Tya17]. **Self-inverse** [BPP17]. **selfadjoint** [And15, CMM19, FKRS17]. **selfrepeat** [FJ19]. **Semencul** [XW16]. **Semi** [CHB15, ÁKM17, BFA18, CJ17c, CFNP17, CLS17, FG16, FK16, GS18, GLRT18, KS17, LNT16c, Zam19]. **semi-analytical** [GS18]. **semi-commuting** [KS17]. **semi-definite** [CLS17, GLRT18, LNT16c]. **semi-Hilbertian** [BFA18, FG16, Zam19]. **semi-infinite** [CJ17c]. **semi-monic** [FK16].

Semi-nonnegative [CHB15]. **semi-smooth** [CFNP17]. **semiclassical** [GGMPC15]. **semidefinite** [Cho17b, FMY16, FS17b, FG17, GS18, GdLL17, HNS15, KL17, Lin17a, SUY16, Ulu19, Vir16]. **semidefiniteness** [KM16, NR17]. **semifields** [GJK18]. **semigroup** [Zus17a]. **semigroups** [AG15b, AG20, Bob16, KOST15, KMOR19, PV17, Shi17a]. **semilattices** [IK18]. **semilinear** [Van16b]. **semimodule** [Shi15, Tan16a]. **semimodules** [HM17a, Shi16d, ySpW17]. **Semimonotone** [TW19]. **seminorms** [CG19c, Gol17]. **semiparametric** [Ema18]. **semipositive** [Tsa16a]. **semiring** [IKR16, YZZ18]. **semirings** [DO16]. **semisimple** [CME18, PR19]. **Semrl** [Kim18]. **sensing** [BÓ15, Fli16, KKLP17]. **Sensitivity** [Kir15]. **Seoul** [CFH+16]. **separable** [GH16b, JC18, Miz16]. **Separating** [KLP18]. **separation** [Sol18a]. **Sequence** [He18, BCS16, BCF+16, CR19b, FOvdD16, FMR18, FHS17a, NP15c, SSS15, Yur15]. **Sequences** [Drn19, Bar17b, BDG15, CJ16a, CD16c, EE16, EJ19, FKM17a, FKM17b, Gar17, HMSC19, JC18, KT17, LM17, MHA18, OZ15a, PW19, PW20, Riv15b, SB18, WZ19, XWL17, ZLS17]. **sequential** [CR18b]. **Sergeichuk** [BBF19]. **Series** [Bru16a, Bar16a, BV18a, CIY15, CJS16, DS19c, Dya17, LG18]. **Serre** [CQ15b, PR19]. **Serrin** [ACE15]. **sesqui** [Bil19]. **sesqui-holomorphic** [Bil19]. **sesquilinear** [Wój15, dFRS16, dFFRS17]. **Set** [SS18, AvdHS15, AvdHS16, BDM18, BGT+19, BGCMPB15, DDL17, DdF15, DHS18, Gór17, HYY15, Hil17b, LLPS19, LCL15, LL16a, LJL16, LD17b, MS16a, May15, NS15b, SR19, SG16, Tar18, Yor17]. **Set-theoretic** [SS18]. **Sets** [BOvdD17, Kan16, AYK17, ABM16, BM19a, BH16a, BWSZ15b, BJLD17, CR18a, bCR18, DLB18, DD17b, DO16, ELN18, Eve18, GJ18, JG17, Jin15, KL19a, Koz16, Lax16, LL16a, Lin15b, MC19, MB15, MRV15, NS15c, OL16, Pep17, Pol19, RW17, ySpW17, SXD16, Tan16a, YZL+19]. **setting** [ABC+16b, AS17]. **Several** [GL15b, GL15a, LCF19, CKM16, Ern18, Ken16, Naj17]. **shadow** [DGP+15]. **Shannon** [Nie15b]. **shape** [VG18]. **shaped** [HP15]. **shapedness** [LNT16a, LNT16b]. **Sharp** [DR18, Ken16, BMGP15, CL17b]. **Sheffer** [CJ16a]. **shell** [ABR18, CJ17a, LSZ18]. **Sherman** [ACM15]. **Shift** [CV17, He16b, APT17, BR19, BMN16, BS16f, Chu15, CUPW15, Skr17, ZSQZ19]. **shifts** [KY15, KY18, LY16]. **Shmuel** [Tsa16b]. **Shoda** [SB15]. **short** [BP19a, Bün17, MC19, May15, Mic16, SS17b]. **shorted** [ACM15]. **shuffled** [MHA18]. **SICs** [CW17]. **side** [AL18]. **sided** [HAWM16]. **sides** [HPZ18]. **Siegel** [AM19]. **sieve** [Cox15]. **Sign** [Bri17, GLZ16b, LP15, LOvdD18, SS19, SV17, Stu17, BDDO16, BGGS16, BD19, BWSZ15a, BBFF17, Bün17, DB19a, FGG+18, FGH+15, GM15, GLZ16a, GL17, JCW19, Kob17, MNTX16, OvdDV17, Ter18]. **sign-central** [BDDO16]. **Sign-changing** [SV17, GM15]. **sign-complex** [Bün17]. **sign-real** [Bün17]. **Signal** [Per18, PHW16]. **signals** [KKLP17]. **Signature** [MG18a, HS19a, MWT16a, PR18a]. **signatures** [Ma16]. **Signed** [AHMM18, BZ16c, BBC18, WWT18, YYQ19, ASMN17a, ASMN17b, ABDN18, ABH+19, AvdHS15, AvdHS16, AH16, Bah19, BS15c, BP15, BSS16, BSP18, CRRY15, HHL19, LWZ18, RS17a, RS17b, SS16, STW18, STW19, Sta19, WH18]. **Signless** [GCP18, HL19a, ACPR15, ADLR19, CR17b, CCdFV18, DdSJdFDV15, Das15, DM16a, lFwW16, FWB+19, GRS17, HQX15, LD16a, LZ16b, LZW17, LLS17a, LLS17b, LLZ17, LL18a, MM19b, NLWJ18, Obo19c, TWR15, WZZ19, WZL15, XSW19a, YQS16, ZL15a, ZL15b]. **similar** [GS17].

similarities [Wój19]. **Similarity** [BP16b, BBSS18, CXLF16, CN18, CM19, CLP16, GSW16, Sha16, dlCF16]. **SIMO** [BPZ17]. **Simple** [BZ16a, Lot15, BKRE18, BGM+19, BBGM16, CW15a, Cos19a, EF17, Hol16, LZ15e, MI17, MB18, PS16, RE16, Sam17]. **simple-loop** [BGM+19, BBGM16]. **simplices** [FJKM18]. **simplicial** [BFN15, LT18]. **simplification** [SW15]. **simplified** [BM17a, BDP+18b]. **simulation** [Hür15]. **Simultaneous** [BGKP19, Sha16, FT18, FKM17a, FKM17b, GX17, HK18a, HAWM16, She16]. **simultaneously** [DO16]. **Singer** [BH16a, Hou15]. **single** [LPPZ19]. **singleton** [Kan16]. **Singular** [CN17b, KLS19a, Lop15, YZL+19, AJL16, ÁVAK+19, BGT+19, BMR17, GH16a, GL16, Had17, Hoo15, JS16, JKP16, KN16, Lan15, LY17, LS18b, MVPST19, Nie19c, SS15c, TY15, DDMV16, TW18b, WG15, Zhu19, Zou17]. **Singularities** [CDR+19, Han18, JKP16]. **singularity** [RS18, Sch17]. **singularizable** [Roh18]. **Sinkhorn** [IW15]. **six** [MB15, PS19a]. **size** [ABGJR+18, DV19a, DdF15, Gar17, JKS15, MS17b, NS18, NP15c, PS15, SWZ18]. **skeleton** [Fer15, OZ18]. **sketching** [BF19c]. **Skew** [BC15b, MWT16b, dlCMP17b, AAM15, AJPS16, BRN18, BGSS18, BHSS18, Che18a, CLL15, CL17a, CS15b, CS18b, CQS18, Dmy16, Dmy17, DD18, DKNS16, FOvdD16, FKRS17, FKS16, GG18, GW17b, Ito17, Joe16, LWY16, LHL18b, May15, MM15b, PM15b, WF19]. **skew-adjoint** [PM15b]. **skew-circulant** [Joe16]. **skew-morphisms** [DKNS16]. **skew-product** [AAM15]. **Skew-rank** [MWT16b, LHL18b]. **skew-selfadjoint** [FKRS17]. **Skew-symmetric** [BC15b, BGSS18, BHSS18, CS15b, Dmy16, Dmy17, DD18, FOvdD16, GG18, LWY16, May15, MM15b]. **skewness** [Hür15]. **sln** [Chi18]. **Small** [ABG16b, AAKS17, BOT19, CW16a, DHW16, Dym16, FHJT19, LM16c, QKP16, Shi15]. **smallest** [AB15a, AKYD16, KKY16, KLY18, KLW16, MST15, Nik16b]. **Smith** [BD19, EG15]. **Smooth** [Rao17, BGM+19, BBGM16, CFNP17]. **smoother** [BDDSC17]. **smoothness** [PSG16]. **snowflake** [Piv19]. **Sobolev** [TNK16]. **Society** [GHPS19, Zha15a]. **socle** [SB15, SBB15]. **Solution** [BHP17, CL17a, PCL15, BP16a, BB18, Bel16, BB16a, CI15a, DI16, DTZ16, DS18b, Gór17, Lin17b, May15, RW17, SS17b, Tan16b, Yur15, ZD15, ZC15]. **solutions** [BV18a, CGM17, DP15b, DP16, DPJ17, DN18, FI19a, GX16, GX19, Hla15, KU16, Kri15, Li19, LM19, SFW18, SR18, SH15a, SS18, WT18, Wim16, ZHC16, Zue18]. **Solvability** [DIPR18a, DIPR18b, Bar17a, DFKS17, FKS16, Hla15, HR16, JLD17, LX17, vWZ17]. **Solvable** [KKO15, BCS15, BCS16, CLOK13, CPS17, LMO16]. **solver** [VT18]. **solvers** [LMS15]. **Solving** [GBRS15, BW19, EM17, HAWM16, HS19b, NZZ15, SdJY+16, Van16a, ZLQ16]. **Some** [AA19, AN17, AAC+15, AdF19, BR15, BFY18, BLY16, BU18, Cal16, CFL16, CLHL15, CD16b, CL17b, CJ15, DHHZI19, DY15, EM15, Gór17, GS15, Hoa17, HO15, HWXC18, kJ16, JMM16, KSMB15, KM16, LS18a, LL15b, LPP15, LZH16, LWC18, Lin15c, LM17, Lék16, LMM+16, NR16b, Pal16, SY17, SWB19, cSfCfX15, SB18, UYY17, XCJ18, YZL15, ZLKB17, Zha18c, ZSWB16, AAS18, AAC17, BBM19, BS17, BSS16, CHJM18, DB19a, Duk12, Duk15, ET16, FZL+17, FM19a, GRS15, HLW15, Jai17, Kal18, KPL18, Lan15, LHG15, LWCL19, LMR16, MQTW18, Mar15a, Mel15, Mor17, MST15, NW15, NT19, Oik19, OP16a, Ota15, PP17b, Pas19, Rob19, SY16b, YdB19, YHY15, YSS16, Zha19a]. **somewhere** [WH19a]. **somewhere-flat** [WH19a]. **Soules** [Hür15]. **South** [CFH+16].

space [AM19, AL19a, BCKL17, BGCMPB15, CCW16, CGL16, CMM19, DY15, DdFR16, EE16, FJM18, HJW19, HL17a, JMPS18, Kim15a, KL15, Kul15, Lee19a, LNW17, Liu16b, Mag16, OZ15b, PSM18, Pop16a, Sab19, SG17b, WG15, Zam19]. **space-filling** [BGCMPB15]. **Spaces** [BM17c, EM16, AGQ19, BFA18, BF18a, BSZ18, Bil19, BHSS18, BDFR15, BO17, CR19a, CG19b, CDFK19, CFW15, CSW17, CG19c, DA19a, De 16a, DdFR16, EE15, EM15, ET18, FZwCW16, FS17a, FS18a, FPGPV17, FG16, FKPS18, GMP16a, Gol17, GQ26, HW15a, HHR16, JC18, KL19b, KS15b, Mar18, MSSZ17, Mes17, MM17c, MRV15, Mol18b, Nag15, NP15c, Pan17, PMW19, PR18a, PCI15, dSP15, dSP16a, dSP16c, dSP16d, dSP16e, QG17, Rao17, RT16, SPBB19, Shi16c, SG17a, Vir16, WH19a, Wol18, XS17]. **spanned** [RMP18]. **Spanning** [LLT19, Gu16, KS19, MRV15]. **Sparse** [BHK16, KSTX15, LSM16, Alo15, BW19, BF19a, BP19a, PHW16, Shi18b]. **sparser** [Kli19]. **sparsest** [JMPS18]. **sparsity** [SUY16]. **Specht** [FHS17b, dSRST17]. **Special** [DLW15, SS15b, Zus17b, ABGJR+18, BBF19, Ern18, LNT16a]. **specified** [KM15a, Nom15a, ZLG15]. **Spectra** [BCM17, CCdFV18, DR19, LJK16, VHB18, AAB+16, AJO15, ACPR15, AB17, AH16, BW16, BR15, BS17, BCC+18, CLQW17, CJS18, Cos16a, Dal17b, DS17a, DM15, GF17, JLNR15, JMP17, JRS19, JMPS19, Kan16, KHI16a, KHI16b, LXS18, LS18b, LHL18a, MAR17, MN19a, NPRS17, PT19, SY17, Shi17b, SS15c, WHC17, XS17, ZL15a, ZL15b, ZKSB17]. **Spectral** [ACT16, AO18, AyLPS18, ABDN18, AEV16, AL16, BL18b, BP15, BOT19, Ben16, BBC+15, BS16f, CGSC19, DLM15, DHW16, FCLP18, FZL+17, Fik18, Gu16, GJLS16, HT17, HMT19, JG16, JG17, LN17, LZ17a, aLwW15, MHL15, MM16b, MHS15, Pea15, SZB19, ZLG15, BL18a, Bai18, BF18a, BG15, BBS16a, BTN+18, BJLD17, Bün17, BS18c, CM17, CLL15, CL17a, Che19b, CJ17d, DV19a, Drn19, DvSW18, EJ17, EH15, EH18, EB17, FuIKT16, FBH19, FT18, FCL+16, GH19, GJ18, GMO19, GMW18, GZ18, HvdD16, HvD18, HJ16, HMSC19, HLLZ17, HSS16a, JL16a, KNY15, Ken16, uIKF15, KIS18, Koz16, LS15a, LZB18, Lia17, LZ15c, LZ16a, LZ16b, LZM16, LZW17, LHX18, LSX15, LLS17a, LLS17b, LZSD17, LZSD18, LWCL19, Lot15, LM16c, LHH17, Mel19, MMM19, Mol18a, MM15b, Mor17, NMBA19, Nik17a, Nik17c, NLW18, NLWJ18]. **spectral** [NSCV16, Obo19a, Obo19c, OQY17, PS19b, PS17, Pep17, PV17, Sim18, Skr17, TWM16, TSH16, Tsu15, WM17b, WZ15, XSW19a, XWL17, XWD18, XS18, XLLS18, Yin18, YSS16, ZLG17, ZLKB17, Zha18c, dlPJG18, CRC17, CJKM19b]. **Spectrally** [GM19, KSVW17, MM17b, OvdDV17]. **spectratopes** [JP16]. **Spectrum** [Chu19, AAM15, ABM18, AP15b, BDMB19, BM17b, BE15, Ben15, Ber18, BSMSZ19, BM15, BL18c, CM18, CX17, CW18b, CJ17d, Gil16, Hua19, JZZ18, KLW18, LTWW15, LD17a, LS17b, LN18, MLW15, Moh16, MK18, MP15a, Nik17b, SS15b, YYSX19, ZH15]. **spectrum-preserving** [BL18c]. **sphere** [Tan16b]. **spheres** [Che15a, Jia15]. **spherical** [FNX19]. **spin** [Bal15b, CD16a, Kir15]. **Spiral** [BK17b]. **spliced** [BDG15]. **splines** [CFM16, DGP+15]. **splitting** [XXZ16, wXL14, wXZ19]. **SPN** [SM18, SMBDK16, SM16]. **Spread** [AA19, ACRR15, AGRR16, AdFRR18, ADLR19, CD16b, LwW16]. **spreads** [ALMZ+19, BS16c, Van16b]. **Square** [Bot16b, Bot16a, Bün17, lHS16, Miy15, Shi16e, Shi16g, TH16b]. **Square-zero** [Bot16b, Bot16a, Shi16g]. **Squared** [BS16a, BNST17]. **squares** [CGDM16, CGM17, DS18b, Eld15, EA17,

HK18a, HL19b, JKKL15, KL15, LC19, LHC15, NZZ15, UM16, War17]. **Squaring** [MF16]. **SSD** [WLL19]. **Stability** [CA18, DV18, FKRS17, Lee19b, SL16, SZ19, AM16a, AMV17, BMO15, Dra18, FM17, Fli16, Fre18, GX17, HM17b, Kus16, MP18, Obe16, Oik19, PM15a, PMB15, SNP16, WZL15, XW16, ZH17]. **stabilization** [ZH17]. **stabilize** [PQY15]. **stabilizer** [HS17]. **stable** [BB18, BDRC16, BS19b, GKS19, HLPS19, JCW19, Per18, SSB15a]. **stage** [HK18a, HvdD16]. **stage-structured** [HvdD16]. **staggered** [KIS18]. **staircase** [CMQV16, MGM17]. **Standard** [GIM16, BLdSV19, Lax16, PP18, Ser16]. **Star** [Row15, BMGP15, DY15, GLZ16a, LNT16a, LNT16b, PF18, Row18, WYL19, YCL17, YZLC18, aHRT15]. **star-commuting** [aHRT15]. **star-shapedness** [LNT16a, LNT16b]. **State** [AL19a, GHPS19, ABC+16a, CGK+17, CGGV15, JKP+17, Kir15, TFC19, VB18]. **State-space** [AL19a]. **states** [CF18, GW19a, HYH15, KP17, LM19, Poo15, Sar19]. **static** [Bel16, NN19b]. **Stationary** [LZ15a, SY16a, VB18, Ziz16]. **statistical** [Lop17, Opo16, WYL15]. **Statistics** [DLW15, FI16, Yin18]. **Staudt** [KT19]. **steepest** [VK16]. **Stein** [LLH17]. **Steklov** [AL16]. **step** [NSCV16, iT16, iT19, XXZ16]. **Stiefel** [DSX15]. **Stieltjes** [CK15b, FKM17a, FKM17b, FKMS18, LM17, PS19e, Riv15a, Riv15b, Sch16]. **Stieltjes-type** [FKM17a, FKM17b]. **stochastic** [ATM18, BM16a, Ben18, CLR19, CQCZ19, Chu15, Dah15a, DLB18, DU16b, DKPU18, Ege16, GWW16, GT17, Gow17, KÖ16, NMBA19, Nat19, dCDFK17, dCDFK18]. **stochastic/irreducible** [DLB18]. **Stockmeyer** [Fas19]. **strategies** [KH17]. **stratification** [Dmy17]. **strict** [AGV17, AGV18, Wol18]. **strictly** [Bou16b, Fag19]. **Strong** [BPP16, BS16f, Chu15, DMQ19, AR15b, BPP17, BS16e, BDFR15, DA19a, FGS+16, GLMPC18, KSMB15, SG16, Sim19, DDV16, TD15, WT18, Lin16a, SS17a]. **strongly** [AM18, BPR17, BU18, COvdD16, lFwW16, IM19, Jør15, LwW16, QWC15]. **Structural** [CYD19, GLMPC18, TD15, CJKM19a]. **Structure** [Dmy17, GSZ15, SdJY+16, aHRT15, BBEE19, BR15, BGCMPB15, BDS15, Bur15, CC16, CILL16, CLZ+16b, Der19, EHN16, FK18, Hua15, KKY16, Kob17, KRZ+17, KLS17, LLL17, LL16b, MGM17, RJK18, SSCS16, SNDM17, SH15b, Tar18, Zaj19]. **structure-preserving** [Bur15, KLS17, LLL17]. **Structured** [AA16, Ano16a, BF18b, BMVW16, HKM18, HvdD16, HPZ18, MAR17, Mar15a, MK18, dSP19b, dSP19c, PM15b, SUBG18]. **structures** [BBMFM17, BGCMASS19, CV18, Dog18, OW17, Opo16, Pan15a]. **Stud** [Zha15a]. **studies** [PZ17a]. **study** [DHW18, GT17, KMS16]. **Sturm** [GM16a, YSZ17]. **subadditive** [CPZ16a]. **subalgebra** [BN17]. **subalgebra-preserving** [BN17]. **subalgebras** [DR17, EEV17]. **subclass** [ZLLL18]. **Subconstituents** [HZ17, ZGW16]. **subdifferential** [CW18b]. **subdirect** [AG17]. **subdivision** [CDRT17]. **subframe** [CLS18]. **Subgraph** [HKS19, HLSP17]. **subgraphs** [FdFdSDV18, KLW18]. **subgroup** [GH15, RB16]. **subgroups** [BRN18, Bie15, HS17, PB16]. **subKautz** [Dal17b]. **submajorization** [Bek16]. **submatrices** [HJ16, MO18, PRS19]. **submatrix** [DS17b]. **submodules** [LMX19]. **subnormal** [BRN18]. **subnormality** [KY18]. **subordinate** [JSST16, JT17]. **subordinated** [DS19b]. **suborthogonal** [Str18]. **subpencil** [SS17b]. **Subresultants** [BDK+17a, DKSV19]. **subsemimodules**

[ySpW17, Tan16a]. **subset** [ABG16b]. **subsets** [AJ19, DHS18, NP15c, Shi16d, Vij15]. **Subspace** [Zas16, BBEE19, BMS16a, BS19a, DdFR16, GR16, MMR16, NS18, Ram17, Sch16]. **subspaces** [AW15a, AW15b, Bal15c, Bal19, BB16a, BEKS17, CFP18, CJW19, FMM16, Huh15, MOR16a, MMR17, MMR18, NINS16, Pan15b, RMP18, SK17a, TLL15, WG15, WZL17, XS17]. **substochastic** [CC19, Lju15]. **subtle** [RWH17]. **subtournaments** [MS17b]. **Successful** [CD16c]. **successive** [Miz16]. **such** [CLST18]. **Sudoku** [War17]. **suffice** [NS15b]. **Sufficient** [LSX15, PM15a, Bar17a, ES16, Li15a, MPS17]. **Sugeno** [Mar15b]. **suggested** [NR16b]. **Suleimanova** [PT19]. **sum** [AMR+16, AG17, AT15, BJC15, BDDO16, BNST17, Che18b, CLF18, Che19a, Cho19, DMS19, EA17, GAP16, GP18, GF17, GMP16c, Hua19, KS15a, Lee16, Sol18b, Ste18, TXZ18, WH18, dlCMP17a]. **summability** [BDG15]. **summation** [JKP16]. **summing** [CDMP15]. **Sums** [BES16, Shi16g, AO18, ABG16b, Bre18, FJS17, FJS21, FdC15, GS15, HS16, HS17, Lot15, Xu17a]. **Sunder** [Lin15c]. **Superadditivity** [UUG15]. **superalgebras** [CCW18, Iop18, LL19, RZ17, WZ17b]. **superdiffusive** [EHHL17, EHLP18]. **supereigenvector** [Ser15]. **supereigenvectors** [But16]. **superinvolution** [Iop18]. **superinvolutions** [GIM16]. **supermajorization** [LD17c]. **Superregular** [ANP16]. **superstability** [IT18]. **superstochastic** [LD17c]. **supertail** [NS18]. **supertrees** [XWL17, XWD18, YSS16]. **supertropical** [IKR16, Niv15, Shi16f]. **support** [BP19a, Hil17b]. **supported** [AKPS19, KAPS20, MS15a]. **supporting** [Pan15b]. **Surjective** [YL17]. **survey** [Dal19]. **SVD** [GM16b, GCC18, PS19d]. **SVD-based** [GCC18]. **switching** [BSMSZ19, ETF18, Gre18, IM19, Moh16, WQH19]. **Sylvester** [DIPR18a, DI16, DIPR18b, Dra16b, HAWM16, RMKJ18, Wim16, dCdSA15]. **Sylvester-based** [RMKJ18]. **Sylvester-type** [DIPR18a, DIPR18b, Wim16]. **Symbolic** [Sim19]. **symbols** [BGM+19, BBGM16, Lee19a]. **Symmetric** [BBH16, BF19b, CR19a, SCD17, ARS17, BGS15, BGM+19, BM19b, BFY18, BLdSV19, BC15b, BDK+17b, BGSS18, BHSS18, BC16b, BDFR15, BO17, CP16a, CM18, CS15b, CW18b, DeV19, DP16, Dmy16, Dmy17, DD18, Dmy19, ET18, FOvdD16, FBH19, Fay18, FHH15, GG18, GKR16, GC19, HW15b, JMP17, JZ18, KH17, KLW15, KLL17, KOST15, Lee16, LWY16, LLL17, LDL18, LUC19, LS17b, LNT16c, Ma15, MO16, MPS17, MV16, May15, MM15b, Mon17, Nik17b, OS17, dSP16a, dSP16d, dSP16e, QWC15, RKT15, SR19, Sod18, Sri17, SSB15b, Tar18, VK16, XL18, dCFF17, ES16]. **symmetrically** [BF19a]. **symmetries** [BFW17, FSSW17, FSW19, GS15, LCNZ19, dlCMP15, dlCdR17]. **symmetrization** [Rad17]. **symmetrized** [HMSC19]. **symmetrizers** [DU16a]. **Symmetry** [PMW19, AH16, FK18, TC15, Tur17, dSRST17]. **Symplectic** [BHSS18, AM19, BF19b, BR17, CG16, DR17, DH19, EH18, HL18, IGW17, RMP18, SH15a, SZ23, WG15, dlC15, dlCF16, dlCMP17a, dlCdR17, dlCG18]. **symplectic/orthogonal** [BF19b]. **synaptic** [FJP15a, FJP15b]. **synchronous** [ZZR15]. **synthesis** [BZ16b]. **system** [BTN+18, BB16b, GKS19, Hoo19, WZ17a]. **systems** [AAdFS19, BW19, BPZ17, Bel16, BTN+18, CC16, CHASSSG15, CDG16, CNX17, CR18b, CL15c, CJ16c, CJ16d, DGCC16, DGGP18, DTZ16, DFKS17, DS19c, DOR16,

FM17, FKRS17, FHS17b, Gór17, Gre18, GBRS15, GHT16, HK18a, Hla15, HR16, Hon18, Hoo19, HM17b, KN16, KVP19, Kur19, LM16a, Lee19b, LX17, Li19, LS18b, LNT16c, MM19a, Nie18, Nie19a, OP15, OP16b, Pas18, RRV15, RW17, SFW18, SR18, SL16, SH15a, Sug17, SS15c, Vas15, VK16, Vij15, WT18, ZH17, Zhu19, dFFRS17]. **Szego** [Fik18, FM19b, MF16].

T [MM17a]. **T-modules** [MM17a]. **tableaux** [SS19]. **Takagi** [Mar15b]. **Tangent** [Kut18]. **Tarski** [DP15a]. **Taylor** [DR16, JLM18, SZ19]. **TD** [Nom15b]. **technique** [Row18]. **techniques** [BK16, KS19, RW17]. **technology** [SSCS16]. **Ten** [CRS15]. **Tensor** [CJZ18, GH16a, KKA15, BL18b, BJS18, Bre17, CPZ16b, CLQW17, CF18, CKL17, DH15, DdC16, FuIKT16, GL19, GZB19, dMGC19, GCC18, Hil17a, Hu15, HSS16b, Kut18, LL17, LLV15, LL16c, RSS17, Sar19, Sch15, Shi18c, Sod18, Van17, WDFS17, XCJ18, XFZD17]. **Tensor-tensor** [KKA15]. **Tensors** [ARSZ15, YLB15, BS15d, BWSZ15b, BWSZ15a, BJLD17, CLQW17, CQCZ19, CW15b, CW18b, CLN15, DLB18, DLQ18, DD17c, FBH19, FGS19, GH16a, HYY15, HWXC18, JZZ18, KSMB15, KLN16, KL18b, LS15b, LL15a, LQL15, LCL15, LL16a, LJL16, LUC19, MS17a, NR16a, OP19a, QWC15, Sei18, SY16b, SWB19, Tsu15, XLQC16, Xu16, XCQ18, YZL+19, YYQ19, YHY15, ZSWB16, dSRST17]. **term** [De 16b, dMGC19]. **Terminating** [Kwo16]. **terms** [DGCC16, lFwW16, HHL19, LWZ18, MWT16b, TWM16, WM17a, WF19, WWC18, ZWS18]. **ternary** [CN17a, De 16b]. **Terwilliger** [GGH15, GK15, MMP16, Mor16b, MX16]. **tessellable** [HPSS19, KIS18]. **Test** [CILL16]. **th** [Guo19, LG18, YG15]. **their** [ABP15, AJ19, Bal15c, BKNS17, Bar19, BCC+18, BSMSZ19, BDS15, BM17c, BC15b, CR19a, CMV16, CR15, ÇMP18, CIY15, CHK17, CJB18, DGGP18, DLQ18, DdFR16, DHW18, FGH+15, GL15b, HT18a, He16b, HS17, He18, HC19, KC16, KHI16a, KHI16b, LTWW15, Lin19, MW15, MLW15, Mas17, MO18, Mor16b, Niv15, PSZ15, PS17, PHW16, RFPS18, Riv15b, RGPH16, SKC18, SCD17, Ter17a, Ulu19, WYL15, Xu16, Yan18]. **Theorem** [MB18, Al'17, BW16, BM16a, BS18a, Bor17, BBS16b, CHASSSG15, CQCZ19, CS15b, DGK+17, DDCY17, DP15a, DD16a, DD19, DR16, DPS19, FS17b, GH16a, GKR16, GLW17, HO15, lHS16, Hua19, JZZ18, KT19, Kul15, LN17, LMX19, Mar15a, McK18, NS15a, Pas18, dSP16b, RY15, SB15, TW16, Uch15, VB19, Yin18, BEF16, BL19, JP17, KM19, KLS19b, MG18b, MM19b, Rao18]. **theorems** [AS17, BJC15, BPT15, CFL16, CLLS19, EH18, FK16, GL15b, GL15a, HLSP17, Jen17, MRS18, aHRT15]. **theoretic** [AB15a, FJMP15, GR15, SS18]. **theoretical** [BBT15]. **theory** [BBEE19, CDG16, CGDM16, CLQW17, Che15b, DH19, DE15, Gar17, HMS17, JS18b, KKY16, KNR18, MM16a, Pea15, PM15b, RD15, Tsu15, Wan19, Zha15a]. **There** [AM18]. **theta** [OP15]. **third** [DD17c, Han18, LUC19, Lop15, Obo16]. **third-order** [DD17c]. **Thompson** [CS17, LZ17b]. **thoughts** [HO15]. **Three** [May15, QWC15, Shi17b, BW16, CMV17, CF18, DK16, EHK16, Far19, GW18, HK18a, IKW16, JKKL15, KRZ+17, Nom15c, Pal16, Row16b, SY16b, SWZ18, TW17, iT19, YT16, dlCMP17a]. **three-dimensional** [CMV17]. **three-level** [KRZ+17]. **three-qubit** [CF18]. **three-stage** [HK18a]. **three-step** [iT19]. **Threshold** [LSM18, AG15a, BM17b, Dah15b, Gho19, HT17, JTT15, LMT19, LHL18a]. **thresholding** [FS19a, RSS17]. **Tight** [CFW15, BGOY15, BFG+16, BF17b, FJKM18, HL17c, LC19, LwW16, Mol18a,

RNC17]. **Tighter** [DV19a]. **Tikhonov** [NR16b]. **tiling** [NS15a]. **Time** [UZ19, BMO15, BTN+18, BK17c, CG15, CIY15, DHLT19, GKS19, HM17b, JMPS18, KL19a, Mas17, Obe16, PCL15, PMB15, QWW18, SL16, SSF16, WZ17a, ZD15, ZH17]. **time-and-band** [CG15]. **time-delay** [BTN+18]. **time-dependent** [DHLT19, PCL15]. **Time-varying** [UZ19, BMO15, HM17b, Obe16, QWW18]. **times** [Hun18a]. **Tingley** [FPGPV17, Tan16b]. **TLS** [HPZ18, HPZ19]. **TN** [JZ16]. **Toda** [Ong18, Zue18]. **Toeplitz** [PW20, AAS18, AdF19, APT17, BGS15, BGM+19, BDLM16, BBGM16, CI15a, CI15b, DTZ16, DS19b, DE15, EJ18, EW19, Hon18, HMSC19, KNR18, Lee19a, Nob16, NK18, NSCV16, PSZ15, PW19, SSCS16, Sch17, TNK16, TS18, XW16]. **Toeplitz-block** [NK18]. **toggling** [BH16b]. **top** [Shc16]. **topical** [HM17a]. **topics** [STZ15]. **Topological** [Gar17, dFRS16, dFFRS17, Shi18a, BGCMPB15]. **topologies** [Ost15]. **topology** [ABM16]. **tori** [LZ16c]. **Toric** [YMZ19]. **Toric-Bernstein** [YMZ19]. **Total** [AG16, CLW15, DN18, FJS17, FJS21, GW19b, YMZ19, AG17, ALMZ+19, CW19, DHHZI19, DS18b, MGM17]. **Totally** [BV18b, AG17, BP16b, CU18, CSJ16, JZ16, MM16a, MMP17, MMV19, WHG17]. **tournament** [GW17b]. **tournaments** [Ito17]. **TP** [JZ16]. **Trace** [HLS+16, KL17, SBB15, AdlPR16, ARR18, BG15, BES19, Ben18, CFL16, Cho17a, Cho17b, CW15b, FPGPV17, Gir19, Hia16a, HL19b, LL15b, Min17, NA17, Ota15, Shi19, SW18a, dlP18]. **traceable** [LSX15]. **traceless** [GG18, Nag15]. **traces** [Sch15, Wan16c]. **traffic** [BCMASS15]. **train** [Kut18]. **transfer** [ABC+16a, bCR18, CDRT17, CGK+17, CGGV15, JKP+17, Kir15, TFC19]. **transform** [BLdS16, CM17, CK15b, KP19, SLY17]. **transformation** [CUPW15, GR15, MMR16, TXZ18, dlCF16]. **Transformations** [MS15b, Pan15a, AW15b, BS18c, CMV19, DGSV17, DEH16, DT15, HM16, LUC19, LZ16b, Nom15c, Pan17, Pan19b, Ram17]. **transforms** [EP18b, Far16, KKA15]. **transition** [WC15]. **transitive** [MS17b]. **transplantation** [Her16]. **transportation** [GSS15, War17]. **transpose** [Cho17a]. **Tree** [MM19b, SW15, ADW19, AvdHS16, BS15b, BS16a, Ber17, BPT15, Che19b, CP16b, CSJ16, Gon15, GCQX15, JSST16, JLDS18, KS19, Liu15, LLT19, NS15c, Pud16, ZD16a, ZD16b]. **Trees** [BDVRT15, AdlPR16, ACD19, BKNS17, BOT19, BCJ+16, CKS16, DMS16, GS19a, GLMPC18, GP19a, Gu16, HW15c, JS19, JL16a, KSTY18, LD17a, MST15, NS17, Nag19, NS19, NPRS17, YG15, Yua16, ZL15a, ZL15b]. **Trench** [XW16]. **trend** [DLM15]. **triangle** [CPZ16a, LL15b, Row16a]. **triangle-free** [Row16a]. **triangles** [Bar16a, Lin15a]. **Triangular** [EJ19, BJ16, Bie15, BDLM16, BFD18, Bou16b, Cha15, CXLF16, CKT19, DIR16, DTZ16, DHW18, Ere16, Fag19, KKO15, KY17, MV16, OP16a, SP16, SY16b, UG18, Wan15b, Wan15a, Wan16c, WMC15, WHC17, Yan16, YWD16]. **triangularization** [She16]. **tridiagonal** [AdF19, APT17, BGV17, BF18b, Chu19, DM18, DE15, EJ18, HJ16, kJ16, Nom15c, TS18, VHB18]. **Trigonometry** [AGQ19, CRC17]. **Triple** [ABP15, Ben15, BCP16, CC16, EP18a, KVP19, Nom15c, Nom16, Wan16c, XSW17, YL17]. **triples** [AC15, BCP16, FN17, HLG15, LHG15, Nie19b, Ter15, Ter17a, WHG17]. **Tripotency** [Kis15, XX12]. **tripotent** [Kis15, XX12]. **Tropical** [AGN18, GSS15, Tsu15, AGS17, But16, GS16, JK15, JL16b, Kri15, LdlP15, MT16, PS16, Shi16c, TS18, YZZ18]. **Tropicalization** [AK17]. **tropically** [VT18]. **Trotter** [HK17]. **truncated** [FKM17a,

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