A Complete Bibliography of Publications in *Linear [and] Multilinear Algebra*

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27 September 2023
Version 1.21

Title word cross-reference

$(0,1)$ [DdF22b, FV97, Kim97, Zel85, BF15, BS18d, Cao19, KS83, LN10, Min74d, Zho16]. $(0,1,-1)$ [GZ99]. $(1,-1)$ [KS84]. $(1,0)$ [MP13b]. $(1,1)$ [Zha20a, Che03b]. $(1,2,3)$ [GK18]. (2) [Che95a]. $(2,2,2)$ [SF17]. $(2,p)$ [YD14]. (A,m) [GJR22, SM23]. (α,β) [YZ13]. (α,β,γ) [KO10]. $(AXB,CXD)=(E,F)$ [YLW15]. $(AXB,CXD)=(E,G)$ [YTL20]. (b,c) [SĆK+20, Boa19, Dra18b, Dra22b, KCICV18]. $(C_1^\vee,C_1)$ [Hua22a]. $(e(x_ry_s))$ [Pre85]. (k) [Cha77, Cha79a]. $(k+1)$ [BT06]. (k,l) [Rem90]. $(k=2,3,4)$ [Sta15b]. (m,C) [KLL22, MCL20]. $(m,m-1,0)$ [HZ21]. $(\max,+)$ [HKT15]. $(n+1)$ [Sch78, WT23, Sch75]. $(n,k)=(4,2)$ [JLL88]. (n,m) [CM19]. (p,h) [DV18]. (p,q) [KL95]. (p,σ) [ADRP14]. (qr) [Raw81]. (R,S) [fLLyP15, Pen15]. $(s,p)-w$ [Ras17]. $(\sqrt{5}-1)/2$ [Sim95]. (T) [Che95b]. (v,k,λ) [Der83]. $(Z_m)^s$ [How86]. $*$ [SN23, ZCZT22]. -1 [WWWT22]. -2 [Ano16b, BPS16]. 0 [HNS99, HLZ05, HL20, JS96, Wu09]. $0,1$ [MS79, BX07]. $0<p\leq 1$ [BS22a]. $0\notin F(A^m)$ [JL90]. 1 [CM15, DFK19, Fra17, HNS99,

HLZ05, HL20, JS96, KP14a, Min77, Sta10, Wu09]. $1, 2, 1$ [KHG13]. $\{1, 2, 3\}$ [ZX10]. $\{1, 2, 4\}$ [ZX10]. $\{1, 3\}$ [CIM19]. 10 [LN10]. 12 [EM95]. 2 [AA20, BL10, BL01, BdPN14, BDvW16, BM89, But10a, COK20, DFK19, DP09, DD10, Din15b, ĐL92, Đok93, Ere15, Far94, FGMSS19, Fur08, GS06, Hai88a, KY17, LGA+13, Liu16a, Liu18a, Liu19, Mah82, MP18, NJP19, SG09a, SF17, WYM11, YF18]. $\{2, 3\}$ [SKP18]. $\{2, 4\}$ [SKP18]. $2d - 2$ [DM19]. $2n - 2r(\geq n)$ [LM95]. $2s$ [Lu22]. 2×2 [ADJAH22, AY74, Bas19, BB96, CM92, CTW15, Coh88, CZ22, Dre22, FLT22, GR93c, HW06, JR93a, JR93b, Kan87, LWC22, NP91, RSM22, Tau81, UG21, WLB19, Wan19c, Wei98]. $2 \times 2\times$ [Bre12a, Mar11, Sta14]. $2 \times 2 \times 2$ [BS13, KJ13]. $2 \times 2 \times 2 \times 2$ [BS13, KJ13, Sta14]. $2 \times 2 \times 2 \times 2 \times 2$ [SLH16, SLH18]. $2 \times 2 \times 4$ [WCS+21]. $2 \times \cdots \times 2$ [SL21]. $2 \times k \times (k + 1)$ [Ait19]. 3 [BWLL12, BW15, BPW16, CCGO11, DJ89b, DBG18, KP12, LK16, LZ12, MSS18, QH17, SF17, Vo83c, Zha15c, dNV19]. $3k < n \leq 4k$ [Cha79a]. $3 \leq m \leq n$ [SMS15]. 3×3 [BLSV12, Cai93, Che22a, CCL10, CNP06, Dom95, Dom00, DC20, For79d, SvW14, Tia02]. $3 \times 3\times$ [LPZ13]. 4 [CM07, GS21a, LHbL+15, MH16, MS16a, TWZ16]. 4×4 [CFSRL22, WCS+21]. 5×5 [LS21b, Zha20b]. 6 [MC19]. 6×6 [Che22a]. 7 [Rom89]. 8 [MN13]. $[-1, 1]$ [dLMO17]. $[A, [A, [A, X]]] = 0$ [Gra80]. $[A, [A, X]] = 0$ [Gra80]. $[a, b]$ [CR22b]. ^{d} [GKO22]. $_{1}$ [CY22a]. $_{2}$ [JN14a]. ${}^{\alpha}_{\beta}\Phi_s$ [Lei18]. $_{n}$ [CdM15, INR18, Slo13c]. $_{n,m}$ [SA14]. $_{p}$ [Boz99]. A [CS23, Fan92, GBM21, JT03, NT22, QHB22, RSM21, RSM22, SAK22, Sta15a, WZ22, WM84]. $a * a = P(a)$ [HE20]. $A + BX$ [JL91]. $A + XBX^{-1}$ [dOMD77]. $A - I$ [Fan92]. $A = BXC$ [LT10]. A^* [HS83a]. A^+ [HS83a]. $A^n = A * A$ [DMT21]. A_α [CH22a, GZ22b, JWBB22, LY22c, LS22b, LCG+23, XSW22]. $A^{(2)}_{T,S}$ [Boa19, Sta15a, YW09]. AA [CS23]. $aa^+ = bb^+$ [PA10]. $AA \geq 0$ [JT03]. $\{ab - ba\}$ [BLR12]. $AB = BX$ [LR89]. $aba = a$ [BLR12]. ABC [Che22b]. $AH + HA^*$ [AL78]. α [CR18, GX17a, Heo16, LGZ20, LL22b, SWH22, YS23]. $\alpha_\beta\Omega$ [LXQ21]. $*$ [BD12, Cir15, HZXL15, Kre16, MRD15, TRD16, WJ16]. $A \to A^+$ [Gol83]. $Au = b$ [McD92b]. $AX + BX^* = 0$ [De 13]. $Ax + B|x| = b$ [Roh04]. $AX = B$ [fLLL+17]. $AX = C$ [YZL22]. $AXA^* = B$ [Bak84, Zha04c]. $axa^* = c$ [CIDK07]. $AXB + CYD = E$ [LQ95]. $AXB = C$ [dJfLlZ+21, Tia03, ZLZ+22]. B [BCT23, GCSC20, SC21, WS18, ZZ16, Liu17, ME18b]. $B(H)$ [BJZ13, Dol04, IK18, ZXL16, YJ21]. $B(n, k)$ [LH21b]. $B(X)$ [QC23]. $b_{2,2}$ [ZZ00]. B_{ran} [JM13]. B_{row} [JM13]. $B^{(m)}_v$ [MM20b]. $bab = b$ [BLR12]. β [LLF18]. bv_0 [ESAJ18]. C [Abo20, And96, BD88, BPD88, CDPS23, CT96, DHKSH08, DvE20a, DvE20b, LXQ21, Li87a, LT89b, Li94, LR04, LZ19b, LP22c, LP22b, Man91, Man92, NNT95, NY21, PMP22, RRN22, RRN23, ShDHG08, SA21, WZZ22, BCNG23, BD94, BD96, Ilk20, Jon92, JR93c, Lei91, Lei92, Li86, LT88a, LT88c, LST89, LMR94b, LDL17]. $C(X)$ [BG16]. $C*$ [BBX20, DM20, FMX18, GS20a, GNO20, HJ19b, HJ20b, Lud19, MW21, TH18, HJ19a, Xia20]. C^* [AR15, BCNG23, BBK22, BBBS09, BR10, BM17b,

CIDK07, DM17, DKS09, DKM10, EM15, EPR16a, EPR16b, FXY22, FMXZ22, MR10, PRA22, Son14, Tag12, WZ23]. c^n [Gol90, Shk12]. $C^\star$ [BB17b]. C_0 [Ber02, Ilk20]. $C_0(Z)$ [AO22]. C_m [YWO07]. $\mathcal{B}_s(\mathcal{H})$ [AKS18]. $\mathcal{G}$ [Mit92]. $\mathcal{H}$ [HM19]. $\mathcal{L}(l_m^2, l_n^p)$ [Grz89]. char$F \neq 2$ [Uhl79]. cp [BX07]. $CXC^* = D$ [Zha04c]. D [JvdD88, LN10, NW02, Sch22, SA21, vE22, Cai93]. D_α [ABP22, LXS21]. δ [MC17]. Δ_i^3 [TRM22]. $\det X^t X$ [Sha94]. E [Arm17, HQ14, XSH18, Ano22a, MH20]. $e_{11} - e_{22}$ [Jul21]. $\ell_p(F)$ [Ogu20]. ℓp^2 [MZ23]. EP_r [Mee80]. η [HW14, TKT19, YLW15]. F [Bea86, Uhl79, KD16]. $F_1(A, B, B', C; z, w)$ [AEAAES20]. F_a [LH22]. $f \to f^+$ [Gol90]. G [Hof75, MS82a, MW22, Nie07, Nie22b, Nie22c, Pab22, BCNG23, CS21a, CS22, FZ21, GK18, GLL21, HLY22, LLHS18, LL20, LD22, LLL09, LW08, LDL17, MAT22, Xia20, XQZ13, XQ16b]. $\{g, h\}$ [Bre16]. G_2 [Sun21]. γ [JKD16]. $\Gamma_0(n)$ [Cha96]. GC_2 [ZY08]. GF(2) [Bot97, Cla92, Tra89, Tra90]. GF(3) [Ell95]. GF(q) [Ger86]. GL(n) [KW93, Ner22]. GL(n, F) [Sch78, Sch75]. GL(n, R) [Mer82]. GQ(2, 4) [BLSV12]. GSp(V) [Vin04]. H [AM13, CHL18, FH89, HJ20a, Jin17, JKB17, LZ16, LZX19, LW20, Neu84, WLM21, YZH19, ESAJ18, GR91, GR93b, TRM22]. $H > 0$ [AL78]. I [LRD21]. $i(XAX^{-1} + B)$ [Mac95]. ind(E) ≤ 2 [XSH18]. ∞ [BB19b, CD21, MW15, WT16]. $I \times I$ [Esh22b]. J [Heo16, MAH18, MAH21]. K [BCNG23, Poo80b, SLW21, Slo13c, AAK16, Atk84, Bal22b, BLZ10, Bom02, BM18c, BM19b, CLP22, Che14b, CKT20, CL21, FGHL22, FNBR96, FLT20, Gro17, HHSY22, HQ18, HLZ11, HL20, IAM23, JMS19, JLL88, JR94, KW21, KKP13, KLPK17, LT91, Li92, LLS10, LF15, LCC17, LP23, LDL17, LWL21, LW22a, Loe93a, Loe93b, MW15, MPD22, MDP22, Mej19, Mes90, Šem97, SSG12, SHS17, Sta15b, TB01, WT16, WDJ10, ZL19]. $K(A)$ [Mer75]. $K(\int\updownarrow_\in, \|)$ [LY22a]. $K^d \otimes K^d \otimes K^d$ [DM19]. $K_{3,3}$ [FK91]. $K_{s,t}$ [CZ21]. L [BB19b, CLX03, Geh15, Tau74, BY19]. $L(l^p, l^r)$ [Grz91]. $L(X)$ [Cos21]. L^2 [Lla96]. $L^2(\Sigma)$ [JS19]. l^p [Rho94]. l_1 [AG96]. $L_2(0, \infty)$ [FD14]. L_p [BS22a, BPR12, MM09, Boz98a, Gol87, PS20, RF19b, Zen22]. $l_p(1 < p < \infty)$ [MM20b]. $l_p(\Delta^n)$ [RF19b]. $l_p(w, F)$ [DTS14]. l_p^n [CSS21]. $L_r\otimes$ [YLX20]. $l_u(l_v^n | n \in \mathbf{N})$ [Bad19]. λ [CM19, LGG19, PZGL22]. $\lambda - \tau$ [MS15a]. $\lambda 2(G) = d2(G)$ [PH03]. $\lambda I - N$ [Che94]. LDL^* [Sta15a]. $\lim_{\lambda \to 0} X(\lambda I_p + YAX)^{-1}Y$ [YZ16]. log [KKY22]. LR [Mar78, TT15]. M [And80b, BCN05, BCEM12, BC94, CS23, CKN95, DLL19, DJL94, Fan92, FS83, GN02, Ha88, HS89, HS91, HXL16, Ibr00, Joh77b, JOvdD84, Lee91, Li95, LLZ13, LCLL22, MSZ04, Mia93a, Nab98, NP80, NS92, RP22, vD96, Ber12, Den14, DK21, DK22, JOvdD85, LOO22, MRT16, NS93, yT86, WD17, Zhu19, ZCP18]. $M_{1,1}(E)$ [NT22]. $M_{2,A,B}$ [BM22a]. $M_n()$ [Fošo5b]. M_X [CIP17]. $\mathrm{Mat}_n(K)$ [dB16]. $\mathbf{F}_2$ [BS13, SLH16, SLH18, SL21]. $\mathbf{F}_3$ [BS13]. $\mathbf{GL}_1$ [TS21]. $\mathbf{GL}_2$ [TS21]. $\mathbf{GL}_3$ [TS21]. $\mathbf{Z}$ [Ger04]. $\mathcal{L}$ [Tur18]. $\mathcal{Q}$ [Tur18]. $\Updownarrow$ [WLL21]. $\int\updownarrow_\backslash$ [SZ19]. $\int\updownarrow_\backslash$ [CdSS17]. $\int\updownarrow_\backslash(\mathbf{C})$ [MS08]. $m \times n \times (m-1)n$ [SMS15]. μ [Dia90a, dF05, dF19]. N [Shr90, AS20a, An18b, Are22, BL10, BGLZ18, Bed11, CKS19, CLX22, CR18, Cha79a, CQ22, Chi78, Elg22, EÖ15,

GLOT13, GR10, HMK22, HW75, JO23, KP16, LZ13, LDL17, MCL20, MP19, MS21a, Mos21b, Pop17, Qi15, SV14, Uhl14, Wer87, YLL90, dB16]. $n-1$ [Esc93]. $n-2$ [HW75]. $n/2$ [KMS02]. N_0 [Sin90, Lee91]. $n \leq 3k$ [Cha77]. $n \times n$ [CZY12, Gai77, SvW14]. O [Lop11a]. $O(2,1)$ [CT22]. $O(4)$ [Lop18]. $O(N)$ [Uhl99]. $O(N^2)$ [Uhl99]. $O(p,q)$ [Les93]. Ω [Poz22, EV77, TAK22]. $\Omega(r,s)$ [Har87]. Ω_n [DH91]. P [AEdF13a, AEdF13b, DdF15, ES98a, EMS02, KS14a, Tau74, TZ21, ACO21, BHK21, BB96, BKMMG22, CFLL23, Han17, HS93b, KKY22, Kra06, Kul22, KV22, LL22b, LHGL22, NMAB22, Roh91b, Sin77, So90, Sun21]. P^{14} [BFM22]. P_+ [KS14a]. P_5 [Gho19]. P_n [RP90]. $\partial W_c(A)$ [Beb86]. $\mathrm{per}(I-A)$ [Mal86]. Φ [HSM17]. Π [LH13]. $\Pi_2(l_p, l_q), 1 \leq p, q < infty$ [Bad19]. $\mathrm{PSL}_n(F)$ [Gur97]. Q [GZ22a, LLC21, ND05, SST22, YGW15, YWZ21, ZXL22, CNP05, CN05, CNP06, CN07, Gar79, KHG13, Li98, LN98, PV00, Sal12, Sal14, SAK22, WHG17, YLC19b, Zha97, ZZ23, Zho22]. $Q_\#$ [SST22]. Q_+ [SST22]. QN [GHL20a]. QR [LL17]. QX [LZ22]. R [AW13, LZ15a, LD22, LZ19b, BL93a, BT15, CK19, HH14, McC85, Mou22, Wan22b, ZL19]. R^n [AGP22, Shk12]. S [AJL22, FJK22, GMZ11, GZH19, XL17]. $S(1^a, b)[P_k]$ [CRY95]. $S(n,p,2,2)$ [Hai92a, Hai92b]. $S(n;1)$ [CC19]. $s(\phi)$ [GW98a, GW98b]. S_m [SS98]. S_n [Di 88, Reg87a]. Σ [BCKP10, Ben16, Ben22, Lee16, Wan18]. $\mathrm{SL}(2,R)$ [Sch79]. $\mathrm{SL}(3)$ [Raj09]. $\mathrm{SL}(n,F)$ [New82b]. $\mathrm{SL}(n,K)$ [Wat84b]. sl_2 [AC13, Aln15, Gau76]. $\mathrm{Sp}(2n,Z)$ [New85b]. $\star$ [RD12]. T [NY21, WBZ14, BT08b, CX23, GL16, LM93, SRD19, vBW95]. T^* [LZ12, LZ13]. τ [AR22, Han17, Meh84, Sha20]. θ [ZT12]. $U(n)$ [ÐM79]. $U_q(\mathrm{sl}_2)$ [Aln11]. UT_m [UF22]. W [Arm17, GCP20, SKM17, WfMR16, ZT12, Ras19, ZWM23]. $W(12,11)$ [KMS07]. $W(2,2)$ [ZT12]. $W(m,n;t)$ [CCC21]. $W(n;1)$ [CC19]. X [Tia17]. $X + M^*X^{-1}M - N^*X^{-1}N = 1$ [Zha16b]. $X - A\hat{X}B = C$ [ZWLZ22]. $X = (x_{ij})_{N\times n}$ [WM84]. $X^*Y + YX^*$ [LJ11]. $X^p = A\#_t(M^T(X^{-1}+B)^{-1}M)$ [LM22]. $X^p = A + \sum_{i=1}^m M_i^*(B+X-1)^{-1}M_i$ [JZ22]. $X^TAX = B$ [BCT23]. $x_{ij} = -1, 0, 1$ [WM84]. $XA^tY = A$ [Wal75a]. $XA^tY = A^t$ [Wal75a]. $XAX = BX$ [WHL22]. $XB = D$ [YZL22]. $XC = D$ [fLLL+17]. ξ [LLF14, YZ13]. $Xm + A*X - nA = I$ [DH03]. $X \to AX + XA$ [Bou14a, Bou14b]. XY [CD22]. YX [CD22]. Z [JDD21, MNN+98, Smi94, SH98, Stu89]. Z_1 [CPZ17]. Z_2 [DB14b]. Z_n [PRAC22]. $Z_{p^r}Z_{p^s}$ [AS15]. $||A||_2$ [Mer81]. $||A||_\infty 1$ [Roh00]. $||f(A)|| = f(||A||)$ [BR22].

***** [FdSV16, FA19, GV95, GdSV16, IT16, LWZ15, Ng14, NY21, QZ16, FMXZ22, HJ20b]. ***-algebras** [Ng14]. ***-crossed** [NY21]. ***-derivations** [FA19, LWZ15, QZ16]. ***-identities** [GV95]. ***-isomorphisms** [IT16]. ***-modules** [FMXZ22, HJ20b]. ***-superalgebras** [FdSV16, GdSV16]. ***congruence** [HS09].

-additive [AS15]. **-adic** [Kul22, KV22]. **-algebra** [ZT12]. **-algebras** [BM18b, CR18, GLOT13, Poz22, BBK22, BBBS09, BR10, BB17b, BBX20, BG16, BM17b, CIDK07, DM17, DM20, DKS09, EM15, EPR16a, EPR16b, Lud19, MW21, PRA22, Tag12, TH18]. **-Aluthge** [CM19]. **-analogues** [Gar79, Zha97]. **-ary** [Bed11, GR10, KP16]. **-asymptotic** [Geh15]. **-based** [Mit92]. **-bases** [HJ20a]. **-beta** [Sal12]. **-bi-Hermitian** [YLW15]. **-bihermitian** [HW14]. **-bilinear** [MS82a]. **-bistochastic** [ME18b]. **-by-** [DD10, DJ89b, GS21a]. **-Cayley** [Are22]. **-central** [CR18]. **-circulant** [Bom02, BT15, Mou22]. **-circulants** [GK18]. **-cocharacters** [Di 88]. **-colorings** [Dia90a, SG09a]. **-coloured** [KP12]. **-commutative** [FLT20]. **-commutativity** [HQ18, QH17]. **-congruence** [Lei91, LM93]. **-connected** [SHS17]. **-connectivity** [Vo83c]. **-continuous** [ADRP14]. **-contractions** [FH89]. **-convertible** [Ber12]. **-convex** [DV18, Li86, LST89, Li87a]. **-core** [ZWM23, WLL21]. **-cospectral** [BB19b]. **-cospectrality** [Tur18]. **-CP** [Heo16]. **-cyclic** [BL93a, LDL17, MW15, WT16]. **-deficient** [LLF18]. **-demicompact** [FJK22]. **-derivations** [Ben16, Ben22, Bre16, Lee16, Qi15, Wan18]. **-derivative** [ZZ23]. **-det** [BPD88]. **-det-convex** [BPD88]. **-difference** [Sal14]. **-Differential** [LGG19, PZGL22]. **-dimensional** [COK20, Far94, HMK22, MC19, WT23, YLL90]. **-Divergence** [KD16]. **-Drazin** [CS22, Pab22]. **-duals** [LD22]. **-edge-coverings** [But10a]. **-edge-Hamiltonian** [LP23]. **-eigenvalue** [GZ22a, YWZ21]. **-eigenvalues** [GZ22b, Jin17, JKB17, LXQ21, LCLL22, LY22c]. **-eigenvector** [CPZ17]. **-eigenvectors** [HQ14]. **-eliminated** [TB01]. **-energy** [Tur18]. **-Entry** [Che03b]. **-EP** [Zhu19, ZCP18, WD17]. **-even** [AM13]. **-extension** [LZ12, LZ13]. **-Filiform** [CCGO11, ACO21]. **-frame** [MAT22, Xia20]. **-frames** [FZ21, GLL21, HLY22, LLHS18, LL20, BCNG23, LH22]. **-free** [Gho19]. **-function** [HSM17]. **-functions** [Hof75]. **-Gamma** [SAK22, Sal12]. **-generalized** [Che95a, CIM19, GS06, Liu17]. **-generator** [Mah82]. **-Graded** [Din15b, CdM15]. **-gradings** [FGK23]. **-graph** [LZ15a]. **-graphs** [BB19b]. **-groups** [Cha77, Cha79a, Kra06]. **-Hamiltonian** [LP23]. **-hamiltonicity** [Lu22]. **-Hirano** [CS21a]. **-homogeneous** [FGMSS19]. **-hook** [Rem90]. **-hypertournaments** [KKP13]. **-hyponormal** [Ras17, Ras19]. **-hyponormality** [KKY22, GBM21]. **-ic** [Chi78]. **-ideals** [BY19]. **-identities** [NT22]. **-inclusion** [LXQ21, Lei18]. **-increasing** [Nie22b]. **-index** [LS22b, YGW15]. **-inner** [SN23]. **-invariants** [Lop11a, Lop18]. **-inverse** [Boa19, XQ16b]. **-inverses** [Dra18b, GK18, KCICV18, LW08, SKP18, XQZ13, ZX10]. **-invertibility** [DK22]. **-invertible** [Dra22b]. **-Inverting** [KHG13]. **-isometric** [MP18, MP19, KLL22, GJR22, MCL20]. **-isotropic** [JMS19]. **-Jordan** [MC17, An18b, TRD16]. **-Jordan*-derivations** [LLF14]. **-Jordan-triple** [CM19]. **-Laguerre** [Mej19]. **-Laplacian** [CFLL23]. **-lattices** [Ger04]. **-left** [DK21]. **-Lie** [AS20a, BL10, BWLL12, BD12, BW15, BGLZ18, DBG18, JO23, LZ12, LZ13, SV14, TKT19, WJ16, YZ13, Zha15c]. **-linear** [CKS19, Pop17].

-linearity [WZ22]. **-Local** [Liu16a, AA20, Liu18a, Liu19, YF18]. **-majorization** [Nie22b, Nie07, Nie22c, vE22]. **-Martices** [MNN+98]. **-Matrices** [JT95, Min74d, Ano22a, Cao19, EV77, GZ99, HS93b, KS83, KS84, MS79, MH20, Meh84, NS93, Roh91b, Zho16, EMS02, GN02, And80b, BCN05, CKN95, DJL94, ES98a, FS83, GHL20a, Ha88, Ibr00, JDD21, Joh77b, KS14a, Lee91, Li95, LLZ13, LZ16, MSZ04, Mia93a, Nab98, NP80, Neu84, NS92, SC21, Sin90, SST22, Smi94, SH98, Stu89, TZ21, WS18, YZH19]. **-matrix** [BF15, BS18d, CQ22, JOvdD85, BC94, Fan92, ABP22, CS23, DLL19, HS89, HS91, HXL16, JOvdD84, NP80, SST22]. **-measurable** [AR22, Han17, Sha20]. **-minor** [CZ21]. **-minors** [Sin77]. **-module** [HJ19a, FXY22]. **-modules** [AR15, AO22, BCNG23, DKM10, FMX18, GS20a, GNO20, HJ19b, MS08, MR10, Raj09, Son14, WZ22, WZ23, Xia20]. **-multigraphs** [BM89]. **-nilpotent** [Fur08]. **-norm** [BKMMG22, CD21, Han17, JLL88, QHB22]. **-normal** [GR91, GR93b, LL22b, MRT16, RRN22, RRN23, WZZ22]. **-Norms** [So90, Gro17, YLC19b]. **-Numerical** [BD94, LN98, AAK16, BD96, BHK21, CLP22, CNP05, CN05, CNP06, DvE20a, FNBR96, Jon92, JR93c, JR94, Lei92, LT88a, LT88c, Li98, PV00, DvE20b, LR04, Abo20, BD88, CT96, CN07, DHKSH08, LT89b, Li94, LP22c, LP22b, Man91, Man92, NNT95, QHB22, RSM21, RSM22, ShDHG08, vD96]. **-odd** [AM13]. **-operators** [LW20]. **-optimal** [LN10, NW02, WM84]. **-or-** [DFK19]. **-orbihedra** [ZZ00]. **-orthogonal** [MAH18, MAH21]. **-orthogonalities** [TAK22]. **-outer** [MW22]. **-parallelism** [TAK22]. **-partial** [SM23]. **-partite** [Shr90]. **-path** [SRD19]. **-pendant** [WDJ10]. **-permanent** [dF05, dF19]. **-point** [Sch75, Sch78]. **-potent** [BT06, BLZ10, Den14, HLZ11, McC85, BT08b]. **-potents** [Zho22]. **-prism** [CLX22]. **-product** [CX23, HZXL15]. **-property** [BCEM12, ND05, Tau74]. **-pseudoalgebras** [LW20]. **-quasi-** [MCL20]. **-Racah** [WHG17]. **-radial** [Li86]. **-radii** [Abo20]. **-rank** [CHL18, LZX19, WLM21]. **-relatively** [JKD16]. **-representations** [Heo16]. **-representing** [RD12]. **-restricted** [LOO22]. **-rings** [BY19, Cir15, Kre16, MRD15, ZCZT22]. **-rooted** [RP22]. **-rose** [MH16]. **-Schmidt** [LF15]. **-secant** [Bal22b]. **-selfadjointness** [DK22]. **-sets** [Li92]. **-shape** [LH13, WBZ14]. **-Simon** [Raw81]. **-singular** [GL16]. **-smoothness** [MPD22, MDP22]. **-solvable** [BL10]. **-spaces** [Atk84, CSS21, Mes90, BPR12]. **-spectra** [LXS21]. **-spectral** [Li86, LMR94b, LGZ20, LL22b, SWH22, YS23, CH22a, JWBB22, LCG+23, ZXL22]. **-spectrum** [AJL22]. **-splittings** [JM13]. **-stability** [Cai93, GX17a, JvdD88]. **-statistical** [SAK22]. **-strictly** [BCKP10]. **-strong** [Mos21b]. **-subgroups** [Sun21]. **-symmetric** [CDPS23, fLLyP15, Pen15]. **-tensor** [PMP22]. **-tensors** [MSS18, GZH19, HM19]. **-th** [HL20, IAM23, LLS10, vBW95]. **-to-** [LZ19b]. **-Toeplitz** [BdPN14]. **-torsionfree** [BDvW16]. **-traceability** [Lu22]. **-trees** [FGHL22]. **-tuple** [MS21a]. **-type** [MW15, WT16]. **-uniform** [LCC17, LWL21, LW22a, Wan22b, ZL19]. **-unitary** [GR91, ZT12]. **-uplets** [BB96]. **-valued** [AW13, BG16]. **-variable** [KY17]. **-vectors** [LK16]. **-vertices** [AEdF13a, AEdF13b, DdF15]. **-weighing** [LN10]. **-Weighted**

[SKM17, GCP20, LLC21, SLW21, WfMR16]. **-Weyl** [GCSC20, ZZ16]. **-zero** [CLX03].

03081087.2015.1020746 [Ano16c]. **03081087.2015.1107020** [Ano16b].

1 [LPH17]. **1-inverse** [LPH17]. **10.1080** [Ano16b, Ano16c]. **10.1080/03081087.2015.1020746** [Ano16c]. **10.1080/03081087.2015.1107020** [Ano16b]. **1978/79** [TT78].

2- [SN23]. **2-by-2** [WS23]. **2-connected** [YSZW22]. **2-equitable** [LHF22]. **2-layered** [Nie22a]. **2-linear** [DIJ23]. **2-Local** [AKY21, SYZ22, AAUN22].

3 [ZLS22]. **3-BiHom** [BMN22]. **3-coloured** [KS22b]. **3-LieRep** [ZLS22]. **3-tensors** [LPZ13, SMS21].

6 [TT78]. **63** [Ano16c]. **64** [Ano16b, Sło18b]. **65** [Sło18a]. **67** [HJ19a].

7 [Ano79b].

= [Tia21].

a-Weyl [BZ22a]. **A.** [Mar76, TR21]. **abelian** [Are23, CKR18, CKR21, CCS98, ES76b, MN80, MP13b, Nir11, Odo83, QX23, RC18, STME10, SZ19, WL16a, WL16b, WW20b, BF96, Tow22]. **Absolute** [Fie90a, KP02, DH17, Jam95, MQ21, ST73, SA10, Tag12, TH18, ZZL23]. **absolutely** [MSS18, PSS15]. **absorption** [BS18b, LZ23]. **Abstract** [Sin83, Sal79]. **Accelerated** [BLX18]. **Accretive** [BJ75, BKS21, JK22, JKL22, KS19b, LS17, ML21b, RQ22]. **accretive-dissipative** [JK22, KS19b, ML21b]. **accurate** [DOP22, MS21b, SM21, Uhl14, Uhl20]. **achievements** [Abd20]. **achieving** [GWW20]. **acting** [Fri97, KMEO12]. **action** [Liu16b, Mer78b, Sta23]. **actions** [RP04]. **acyclic** [AEdF13a, AEdF13b, APEPPS23, DdF15, KS09, Moh16b, dF13]. **Addendum** [DvE20a, JR93a, Ric87a, Bal76]. **adding** [LY22c]. **addition** [EL09, LŠ96a, LŠ96b, NC22, SS22, WTD22]. **additions** [LLS16, NS93]. **Additive** [BHD10, BLZ11, Che14a, CK19, DHB07, FLS88, Gha12, JQ15, Kuz05, LP02, OK07, Pet97, ST22, Tag12, TZ06, XCC99, XPY16, XL17, Zha04b, ZS05, ZCCIW12, AGV19, AS15, CdS03, Cho10, CW22, CL21, Fin92, Gar23, MO13, Men22, Smi83, mWyD11, YZ13]. **Additivity** [DW12b, QH11, AA12, Gro99, Har81b, Tia05a]. **adic** [Kul22, KV22]. **Adjacency** [Hua10, Lim10, BR14, But10b, DFPS23, GB22, HA22, JS22, KP22, KFR17, KFR20, LY22b, MKS22, Sah21, WMFW21]. **Adjacent** [DJK08, CW93]. **adjoint** [AA20, CGY13, CKL16, CK20, DRW93, DK22, FJS14, HH16, HX21, Kyr08,

LLMT05, LT13, Moo95, ST19, TZ06, Tan13b, XS18]. **adjointable** [FMXZ22]. **adjointness** [FS19, Kit91b, Sin84a, WW20b]. **Adjoints** [Mar75, Rao18, BT22b, ER81]. **adjugate** [Sin82a, dCdSA22]. **adjusted** [MH12]. **Adjustment** [Har95]. **admissibility** [BV16b]. **admissible** [Aze99]. **admitting** [Gar75b, MID17]. **advances** [Mer79c]. **affects** [Har81a]. **affine** [BBT07, CY22a, FP17, GX17b, Kes83, dSP16b, SX23, Wit11]. **affine-Virasoro** [CY22a]. **afforded** [Mer78b]. **after** [WW20a]. **Aitken** [Min74c]. **alcoved** [dlP20]. **Alexander** [Min74c]. **Algebra** [DS02a, HJ19a, Mac09, Sło18a, Sło18b, SK03, Aln11, BPS00, Bed11, BLZ11, BV92, Boa13, Bre12b, BS18c, BF96, BSS12, Byt20, Car88, Car90, Cha90a, CKLP13, CY22a, CHS22, CZ23, CWSZ17, CSY18, Chi22, DK11, De 82b, Din15b, FGK23, FW73, Gai77, GPW22, Ghi22, GG22b, Gor83, GR10, GPK94, GV87, Guz88, IKR12, Jac79, KS15, KLJ23, LY22a, LK23, LCL13, LS22a, Lip96, LZ12, LGB17, LGG19, LW20, Mag22, MS85a, Ma'15b, Mer92, OWX09, Pat86, Pat89, Pow88, Prz92, TZ19b, TS19, UG21, Wad90, Wal79a, WOY06, lWpW14, WLZ22, WT23, Yam18, Yao22, YWO07, YH22, ZT12, ZWW10, ZAK22, ZW14, dBS00, Ano79b, Ano16b, Ano16c, TT78, MT84]. **Algebraic** [ASZ02, BJ96, BP98a, CIRW21, FKP03, Gur97, KN97, KP02, LZT18, Mil22, Pat86, Tho90, WOW09, Wu05, Zel85, AA21b, BLP12, Bar07, Bar12, BBK22, Bén10, BGLSSS20, CK84, Din00, DLL19, DU21, Epk89a, FN14, Fie90a, FA22, GZY18, GL97, Haw05, HSX16, KS19a, KK22b, KF98, Kir00, KMN01, KN04, Koi21, KN81, LRR87, Lim92b, LGB17, MG22, Ma'15b, New85a, NF19, PT10, Pie92c, Put82a, Put82b, TJ16, Woo22, XSL15, YSZW22]. **Algebraically** [Had83]. **Algebras** [Boz97, Bre15, Che03a, DŠ04, Fin92, Kay17, KT21, LR17, Luk74, MŠ02, Poz22, ST15, ARH15, AF11a, AF11b, AF12, ACO21, AM15, AN14, AS20a, AAP82, Ake83, AAB15, AELPM18, AGV19, AC19, AG15, AH13, AXH15, AC21, AG18, AAA22, ABM22, ALPM20, AKOZ20, AKY21, AK21, AAUN22, Bah22, BHD10, BL10, BHD11, BWLL12, BD12, BW15, BCZ22, BB21, Bal23, BCLS23, Bed10, BX11, BBK22, BBBS09, BR10, BB17b, BBX20, BBM15, BRL22, Ben15, Ben16, Ben22, BCS14, BCS18, BM14, BS18a, BDV19, BB14, BDH23, BG16, BH13, BH16, BM17b, BM18b, BTV07, Bre14, BE20, Bre16, BS22d, BH15b, BL11, BFJ12, BFK18, Bun94, CMR20, CMR21, Caf13, CR15, aCC17, CGNT15, COK20, CCGO11, CGOT13, COK19, CKKK22a, CKKK22b, CPS22, CSG22]. **algebras** [CV94, CLOK13, CR18, CKR21, Cen11, CC19, CW11b, CX12, CW12, CS21a, CY22b, CS22, CZZ22, CZ23, CW23, Chi78, Cho10, CJW19, CAP20, CAP22, CIDK07, DM17, DM20, Di 88, DKS09, Đok73, DR18, Dra22a, Dre93, DW12b, DW16, Egg95, EM15, EKO14, EL21, EPR16a, EPR16b, Far93b, FJK14, FZ17, FTGSNV22, FdM18, FA19, GLOT13, GP14, Gha12, Gha13, GMV18, GS95, Gol07, GT11, GJ22, Gow22, Gra10, Gra11, Gur80, HK16a, HE20, HKP23, Hil76, Hon19, Hon22, HFS15, Hou17, HQ18, Hua96, HLH18, HZXL15, IM18, Iop19, JP15a, JL22, JLZ12, JQS13, JQ15, JX13, Joh22, JN22, JO23, Kan16, KK75, KKL20, KKL21, KP16, KPPV18, KPS19, KK22b, KLO14, Kol23,

KZN22, Kov77, KLO19, Laf80, Laf84, Law19, LZ09, Lee15, LS16]. **algebras** [LB11, LPS13, LF13, LLF14, LWXF15, Lim77, Lim92c, LJ11, LZ13, LCL14, Liu15, Liu16b, Liu16a, LL18, Liu22a, LG23, Lud19, Lud21a, Lud21b, LBV13, LT22b, MJ07, MDW11, ML12, MPGS21, MM92, MM05, Mar12, MHA17, MW21, Mil15, Mit10, MRS10, Mos21a, NTW23, NR23, Nas74, Ng14, Ng22, NZK21, Nir11, NJP19, Oi20, ORT15, Pan22, Pat96, PZGL22, Per17, Per15, Per19, PW78, dSPdS22, Poo17, PRA22, PV20, QM21, QH11, Qi15, RH11a, RH11b, Reg93, RC22, RZ17, RE22, Rom89, SV14, SH21, SDVWT16, STME10, SN22a, SX15, Shi18, Sin21, SL15, Spi04, ST99, Tag12, TRD16, TH18, TKT19, Tan18c, TWK22, TJG22, Tho92c, Tow22, TNJ22, Vol22, WOY06, WHX08, WOW09, WY11, WJ16, Wan16d, Wan18, WLB19, Wan19c, Wan20, XW12, XWF15, YD14, YZ13]. **algebras** [YF18, YZ20, Yan21, YW10, YH22, Zha97, Zha15c, ZL15, Zha16a, Zha21, ZWZ10, dTS20, vWZ19, LPS21, Ano22b]. **algèbres** [MM92]. **algorithm** [AAB17, DCLW19, FTA20, Fog73, GTLN18, Gre99, HKT15, HRT15, HM20, KV22, fLLyP15, LLC21, LLV18, Mum86b, TT15, Uhl13, XJW17, ZZT23, vD96]. **Algorithmic** [CSG22]. **algorithms** [Blo95, CW90, Che95a, HM18, Kul22, Mum86c, Stu92, WX19]. **all-derivable** [LPS13, ZXL16]. **allow** [FHL$^+$13, GGH22, LHbL$^+$15]. **Almost** [BP19, Rum97, CS19, Dag23a, GdSV16, ND05, PR12, WHG17, Zel75]. **almost-commuting** [Zel75]. **alone** [De 82b]. **along** [BB17b, Sza09, WM21, ZCP16, ZPCZ16, ZCP17]. **alternate** [Kuz05]. **Alternating** [Bri89, KM17, BS07, FHZ17, GQ06, Hor04, KKS22, MN13, Mis17, Rei75, WZY22]. **Alternative** [ST80, Bar07, Car20, Mel10, Mel18, Vei83a]. **alternatives** [Roh04]. **Aluthge** [And04, CM19, DKY22, JLL07, KKY22, RS08b]. **AM** [Bak16]. **AM-GM** [Bak16]. **Amitsur** [Ari16, DP18]. **among** [DIJ23, KD23, Tan10, TLL11, TLC16, XL11]. **Analog** [Mia93a, CH87, Foa79]. **analogous** [CW91]. **Analogs** [Kyr08, HINS10, Ter22b, WW76]. **Analogue** [Bed11, Gut23, KA19, NSW21]. **analogues** [AdFK15, Gar79, HS96, Hon92, Hon93, LN16, Zha97]. **analyses** [DS23c]. **Analysis** [CLX03, BX11, BVW84, Chu84b, DLQ18, FS22, KW89, LYS15, LZ19a, LZ22, MMRR09, Mej19, SRD19, SR22, Ste94a, Tia21, jXL15, ZY13, ZBW12, vD96]. **Analytic** [FS83, Fla74a, LCC17, Tur02, Dra22a, Fan83, FJS14, GH23]. **analyticity** [JMS19]. **Andelić** [KAE22]. **Ando** [FS15, HSW19, KMS21, Lim23, Tom22]. **angle** [Bal80, Zha13]. **angles** [Gal08, RBB22]. **Anisotropic** [Pie74]. **Annihilating** [MW74a, DS23a]. **annihilator** [LT22a]. **announcement** [Tho90]. **answer** [GR14]. **Answers** [BHM76]. **Anti** [BFJ12, AF11a, AF11b, AF12, AHJ20, AHJ21, AAB17, BGM22, BSZW13, Haj18, HA22, HS12, LK21, LK23, LLL09, LL10a, PSB23, XSH18]. **anti-** [AAB17, LL10a]. **anti-automorphic** [LK21]. **Anti-automorphisms** [BFJ12, LK23]. **anti-involution** [AF11a, AF11b, AF12]. **anti-Loewner**

[HS12]. **anti-reciprocal** [AHJ20, AHJ21, BGM22, HA22, PSB23]. **anti-reflexive** [Haj18]. **anti-symmetric** [LLL09]. **anti-triangular** [BSZW13, XSH18]. **Anticommutative** [Vol22]. **anticommutator** [DWCD19]. **anticommuting** [Ito16]. **Antiderivations** [Lim77]. **antidiagonal** [AFVL00]. **antiinvariant** [Tam98]. **antilinear** [HL21]. **Antinorms** [Pro22]. **antiregular** [BZ00]. **antisymmetry** [Pat95]. **any** [BL21, Hua10, LB19, RC22]. **Anzahl** [GL16]. **AOR** [CLW21]. **Appell** [AEAAES20, Vei82c, VY21]. **appended** [MN04]. **Application** [MR12, Pat81, ABJ16, ALP94, AB22, BHY22, BKL97, BC91, CDJ13, CH06, Che91, Esh22a, Fri75, JKD16, Li21b, lLZjZ19, LC18b, Ma22a, MCIM21, Ng14, PMP22, Paz84, Rau18, Sch22, SR17, So99, Wan79, WSZL17, ZLS11]. **Applications** [Fur08, Gor83, JKZ20, Mer92, Whi80, AKR23, AAPR19, Ati20, BAN12, BLZ11, BBP21, Bru79a, CGMR11, CV94, CKR18, Che92, CBZ22, Cro08, CCLN16, De 82b, DeV22, DK23, DW12a, DHKSH08, Dra17a, FJS14, FLS88, FJK98, GCP21, GZZF23, GKS01, GHK16, GL16, GLS16, Gur98, HW13, HL18, HM19, Iov15, IAM23, JZL20, JKL22, KM19, KMRS89, KJF23, KT06, LS16, LL16b, LPH17, LZB23, ML21a, Mai11, MH22, MM20a, Mer94, MS12, Mou04, Mou13, Pro22, SRW07, SQH15, ySpW17, SL95, Son14, TZ19a, TZ19b, Ter22b, Ter22a, Tia01, Tia11a, Tia11b, Tia11c, Uhl79, Wan80, WH12, WL20a, WLL21, WY21, WS23, Wit11, YGÇ19, YZZ20, YSY17, YW09, ZZY16, Zha15a, ZMG20, ZPCZ16, vD96]. **Approach** [ASZ02, ACMR17, Bar07, BS17d, BAN12, BZ22a, Bur11, CKLP13, CZ23, Cla92, DP98, DS22b, GHL20b, Hau12, HRMP95, KMH19, MT22a, MVPS14, MZ22, Mou04, RST22, RS23, SK15b, TX13]. **approximable** [AGV19]. **Approximate** [KN22, LK16, RS23, DK23, GLL21, How83, MMR07, Pas15, Sol14]. **Approximation** [SAK22, TD16, TD19, CFSGL18, Che91, CJ12, CDF21, DS23c, Gog21, Hac22, Hav88, HUZ17, KS17b, MW21, TR21, UZ16]. **approximations** [DTSI15, DH16, Hal86, SF17]. **Araki** [TWK22]. **Arbitrary** [Bom02, Mou22, AAB20, BM12, CH22b, CM07, DFPS23, DM19, Ful76, GS01, HWZ18a, HRT15, HZS22, KW11, LLC22, MY12, Mee80, MW21, Moh16b, NJP19, Pab22, Pea84, Uhl79, WM17, Wan17b, ZHLZ13]. **arcs** [GW08]. **Arctic** [BS17c]. **area** [MR12]. **area-preserving** [MR12]. **Arf** [Bae84]. **arguments** [Neu83, Raï14b, Raï14a]. **arising** [Dag23b, DWL13, Lon76, MO22]. **Arithmetic** [Sur98, GHT11, JKL22, ST94, SY23, TLC16, XZ22]. **arithmetic-geometric** [JKL22, SY23]. **arithmetic-geometric-harmonic** [XZ22]. **Arithmetical** [Lor00, BL93b, Hau12, Hon99]. **arrangements** [CMM22]. **arrays** [Bre12a, BS13, GP74, MB22b, Sim83]. **articles** [Ano97b]. **articulation** [BLP12]. **Artinian** [PRA22, HPV84, HPV88, LQ95]. **ary** [Bed11, GR10, KP16]. **Aspects** [Whi74, MM06, WW01]. **assignment** [BHH86, CFP10, Gib87]. **associated** [Aln11, AO97, Ano22a, BCI13, BL93b, BT15, CMR20, Caf13, CLX22, Cha92, Cha93a, CKN95, CKXX23, DPR22, DP00, Dia90b, DJL94, Fal97, Gam18, Han17, Heo16, HS88, HT92, HK16b,

Hon99, HH14, JLDS12, KH05, LY22a, LD22, LTT11, MH20, MP73, Moo95, ME18b, NSW21, OWTZ21, RC22, TLC16, TJ21]. **associative** [Bas17, Bas19, Gol07, Hon19, Hua96, KKL20, KKL21, MP21, RE22]. **assuming** [Wan20]. **Asymmetric** [KMN22]. **Asymptotic** [Ab23, Har78a, Hou09, BSA17, CW17, DHB07, Geh15, Min80a, MFPSS12]. **Asymptotically** [La 19, BG23a, WS23]. **Asymptotics** [WS23]. **Atkinson** [BBBS09]. **attached** [ACMR17]. **attaining** [GR23]. **attainment** [Sai21]. **Audenaert** [AkK17, Ala18, Zou20]. **Author** [Bal76]. **Automorphic** [Pea84, LK21]. **Automorphism** [HNB22, MW16, XWT22, ZWM17a, AF12, RE22, TW17]. **Automorphisms** [BL11, DM13, Fošo5a, GWZ16, HLZ02, Leg06, Lud19, Maj22, OWX09, Wan16a, WWS19, YWO07, ZWM17b, ACI15, AKOZ20, AAUN22, BFJ12, EL21, HS17, LK23, Liu18a, MB22a, Ter06, Ter09]. **Autonne** [HZ12]. **autonomous** [MR12]. **average** [DH16]. **Averaged** [DS23b]. **averages** [Szw18]. **axis** [HHC12, Nas75]. **Azumaya** [SX12].

B [Ano79b, TT78, Tia21]. **B.** [TT74]. **BA** [AP74]. **Backward** [AM13, BR04, CLW15, SWL13, MHM22, ZZT23]. **Backwards** [Pan17]. **Bad** [Hal91]. **Baker** [BB14, DST91, NST89, BBM20]. **balance** [WLF22]. **balanced** [BBG22c, RBG23, WW01]. **balancing** [Kir14]. **Ball** [LCH22, Sch92b]. **Ballantine** [Rad80]. **Banach** [Bal23, BB17b, BB14, Boa13, Boa19, BS18c, CS21a, CS22, CZZH22, CFZ23, DPR22, Dra22a, FU20, FGMSS19, GT14, Gha12, LYZW12, LCL14, LL18, Mos21a, Sai21, SRBB22, TN22, Tom19, Vel18]. **Band** [Elo18, ELG88, EL90, HM76, HM77, HM78, PS20]. **banded** [BdPN14, DdF22b, Woe93]. **bandwidth** [HRMP95]. **Bannai** [HZG14]. **Bannai/Ito** [HZG14]. **Barbara** [Ano79c]. **Bargmann** [CDJ13]. **Barthe** [LCH22]. **Bartholdi** [MMS21, Sat11, SMM16]. **base** [LLS10, LLL09, MM11, Mum86b, WYM11, YMYS13]. **base-listing** [Mum86b]. **based** [BNKJ22, CPS22, CX23, CW20, CFZ23, Cro08, DK23, Guo20, GHT16, HZV23, KC16, Kir09, LZ15a, LZ16, Mar18, Mit92, Roo20, SKP18, Sun20, WZY22, ZV19]. **Bases** [Pet09, Wil99, AGS20, Ami11, ALPM20, BH90, BN88, BD14, CGNT15, CW89, GSS09, HJ20a, HS89, HS91, Hol95, HK13, KCBR87, Knu85, LHS+21, LPS21, MC86, MHA17, MG22, Nor08, Pat17, SSG12, Vo83c, WG91b, WCS+21]. **basic** [AHJ87, Bra86, CW90, DS19b, GV87, Sal14, Vei82a]. **Basis** [SLH20, AC13, Aln15, AGP22, CDJ13, DP00, FJS14, Laf80, MID17, NSW21, WG91a]. **Basis-free** [SLH20]. **Batcher** [CW91]. **Bavula** [ML12]. **Baxter** [ZLS22, DBG18, GG22b, LW20, ML16]. **Bayesian** [Joh82a]. **BCR** [Haj18]. **be** [Gam18, GHL16, LPS09, LLF18]. **before** [Mac09]. **Behavior** [Har78a, Phu80, RS08b, Sta84]. **behaviour** [MFPSS12]. **Beidleman** [DH20]. **being** [CGH15, LP23]. **Belardo** [Ano16b]. **bell** [Kar23]. **Berberian** [Far94]. **Berezin** [HLB20, YK22]. **Berkani** [AZ22]. **Bernoulli** [CP16, KS14b, PSA14]. **Bernstein** [MM92, Wör20]. **Bessel**

[BHY22, DKM10, MS88, Ota20, Xia20]. **Bessel-type** [DKM10]. **Best** [Pat03a, CLL14, GKS01, NASR19, SSGP23, SF17]. **beta** [Sal12]. **Bethe** [ACMR17]. **better** [UB22]. **Between** [Cai93, CD03, BK21, BD12, Bén10, BDvW12, CMR21, CHL18, Cho10, DM20, Der18, GZ76, Gut23, HK16a, Haw05, JS20, sL19b, LT88a, LZX19, LY22b, Lim79b, LLD17, Lon73, MDP22, MP98, Mos19, Pat07, PT87, SH21, Sai21, SRT22, TZ06, TOM88, Tho92c, Vel18, Wal79a, WOY06, Wan19a, Wat86, WL20b, WW12, ZH22, ZS05, ZCZ12, Zha13, ZBW16, ZCY22, ZG08]. **Beurling** [HLP23]. **beyond** [BS22d, GLS13]. **Bezout** [SK15a, SK15b, WY18]. **Bezoutian** [CK84, GB90, LM85, Ota13, Wim88]. **Bhatia** [KKS21]. **BHH** [Ikr15a]. **bi** [AAB17, BB17a, GS21a, HS16, LW23, Wer86, YLW22, YLW15, YH22]. **bi-block** [HS16]. **bi-Cayley** [LW23, YLW22]. **bi-complementarity** [Wer86]. **bi-elliptical** [GS21a]. **bi-Hermitian** [AAB17]. **bi-homogeneous** [BB17a]. **Bialgebra** [Sin21]. **bialgebras** [BGLZ18, DBG18, GZW20, ML16]. **Bicommutants** [Mag13, Mag14]. **bicommutative** [BCZ22]. **Bicommuting** [Dra17b]. **biconnected** [Ste94a]. **Bicyclic** [Hou01, FTZ08, FDD14, LW22a, Nat13, Tan12, TL13, XYH22]. **bidegreed** [Bel15]. **Biderivations** [CC19, CY22b, CWSZ17, CSY18, Tan18c, TZ19b, Wan16b, WT23, CCC21, CW23, FD17, LS22a]. **bideterminant** [ySpW17]. **bidiagonal** [AC13]. **Bidiagonalization** [CP97]. **Biggs** [Koo95]. **bigraphs** [GVS96]. **bihermitian** [HW14, ZLZ$^+$22]. **BiHom** [BMN22, LCC19]. **Bijections** [HS17]. **Bijective** [Blo95, Rem82, Shc21, Slo13a, WZC11, Bay22, CW16, Hua10, RW84, Rem90, RŠ06, RŠ08a]. **Bilinear** [MR75, BCT23, Bre14, COK22, CL80, GQ06, HMN91, IKR12, JSY14, MS82a, RS85, Ruc89, Sai21, Wag87]. **Bilocal** [KZN22, NZK21]. **bimodules** [SDVWT16]. **bimultiplication** [BM22a]. **Binary** [JT04, Bed10, BLSV12, CO12, GS20b, KD23, LLY22, Tau81]. **Binet** [Bay22, Bun91]. **binomial** [BCDF09, FW73, Gar73, Rei77, Whi80]. **binomial-type** [Whi80]. **Binormal** [TMH21, KKL18]. **Biography** [Mar03]. **biorthogonal** [CJ12]. **bipartite** [BP16, BS93, GLS16, KS22a, KS23, LZ11b, Lu22, MR19, Obo16, PGLM00, SSfW15, zSqSZ16, WHG17, YHS13, ZG08, dLMO17]. **bipermanents** [Cla82]. **biquaternion** [YTL20]. **Birkhoff** [AV22, BBK22, CP13]. **bisection** [UZ16]. **Bishop** [DKK$^+$20]. **bistochastic** [ME18b, OP13]. **bisymmetric** [CC17a, DH11, WLL19, ZHZ11]. **bivariate** [BP18, SK15a]. **bivectors** [Wes81b]. **BK** [EB17]. **BK-space** [EB17]. **Block** [DMQV23, ES98a, EMS02, JKZ20, Liv94, Piz87, Tia02, TSYB82, Wei98, YC19, Zim89, Aud15, BH23, BS11, BLP12, BR14, BGdH92, BLZ11, BZZ10, CM92, CdM15, CTW15, Cho18b, Cho10, CICX09, DM22a, DTS14, DD10, DHS95, Doo16, FS22, FH89, FLT22, FG22, GS21b, Ghi22, GR91, GR93b, HS16, Hua01, Ikr15b, JK22, JK10, JSE90, KT21, LWC22, LP22a, LW12, Liu22b, MHH96, MS10b, Ner22, Ric87b, Tam94, TL12, Tis93, Uhl79, Xio23, XSH18, YLX20, YQ90, Zha20a, ZBW12, ZD18, SYZ22].

block-diagonalization [MS10b]. **Block-matrix** [Liv94]. **block-shift** [Tam94]. **block-Toeplitz** [GR91, GR93b]. **block-triangular** [CdM15]. **blocked** [Con90]. **Blocks** [AY74, CP18, CP21, GS21b, KS19a, Sjo93, Yua98, Zha20a]. **BLUPs** [TJ16]. **BMV** [Bur11]. **Board** [Ano11a, Ano12a, Ano13, Ano14, Ano15, Ano16a, Ano79a, Ano80a, Ano80b, Ano80c, Ano80d, Ano80e, Ano81a, Ano81b, Ano81c, Ano81d, Ano81e, Ano82a, Ano82b, Ano82c, Ano83b, Ano83c, Ano83d, Ano83e, Ano83f, Ano83g, Ano83h, Ano83i, Ano83j, Ano84a, Ano84b, Ano84c, Ano85a, Ano85b, Ano85c, Ano85d, Ano85e, Ano85f, Ano86a, Ano86b, Ano86c, Ano86d, Ano87a, Ano87b, Ano87c, Ano87d, Ano87e, Ano87f, Ano87g, Ano88a, Ano88b, Ano88c, Ano88d, Ano88e, Ano89b, Ano89c, Ano89d, Ano89e, Ano89f, Ano89g, Ano89h, Ano90a, Ano90b, Ano90c, Ano90d, Ano90e, Ano90f, Ano90g, Ano90h, Ano90i, Ano91a, Ano91b, Ano91c, Ano91d, Ano91e, Ano91f, Ano91g, Ano92a, Ano92b, Ano92c, Ano92d, Ano92e, Ano92f, Ano93a, Ano93b, Ano93c, Ano93d, Ano93e]. **board** [Ano93f, Ano93g, Ano93h, Ano94a, Ano94b, Ano94c, Ano94d, Ano94e, Ano95a, Ano95b, Ano95c, Ano95d, Ano95e, Ano95f, Ano95g, Ano96a, Ano96b, Ano96c, Ano96d, Ano96e, Ano96f, Ano97a, Ano98a, Ano98b, Ano98c, Ano98d, Ano98e, Ano98f, Ano98g, Ano99a, Ano99b, Ano99c, Ano99d, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f]. **Bogart** [Mer79b]. **Bohnenblust** [JRMFMASS16, MFPSS12]. **Bohr** [MR10, SN23]. **Bollobás** [DKK$^+$20]. **Book** [Ake80, AR80, AK78, Ano83a, Ano89a, BFMM73, CST75, CS79, Con94, DW76, Doz79, EA77, FAR78, Fan81, Fan84, GMS$^+$76, HUSG74, Hum83, JTH77, JM77, Joh83, Kap80, Keg87, LW78, Lei81, Mer98a, MB76, MS80, MBSL74, MGK$^+$74, Pie92a, PA79, RY73, Sch92a, SB75, Sen81, Sha95, SA77, Sko85, Sta94, TB76, Tho81a, Tho81b, Tho82e, Tho83, Wat84a, WTM78, WNM74, Yaq80, ZF78, MT83, Tho82b, Tho82c, Tho82d, Tho82f]. **boolean** [Bo01, GPK94, HKS94, KP92, Liu92, LB99, BS22c, KS12, LT14]. **Bootstrap** [BC06]. **border** [CJ20, DM19, Hac22]. **bordered** [Tia10]. **Borel** [Chu84a, Shc21, WOW09, YWO07]. **Borg** [KK18]. **Borg-type** [KK18]. **bosonic** [Ter22b]. **both** [DC20]. **Bott** [CLX03, GZZF23]. **bottleneck** [AD17]. **Bound** [Cal03, Pat03a, Zhu15, Bal14, BGV11, BD84, CR15, CDK20, CJL22, Gil17, Guo20, Kir00, KMN01, Kir09, MF20a, Mar97, Pat09, QK92, Raj09, SC21, Sol00, zSqSZ16, TD16, TD19, WS18, WWW20, ZBW16, ZWS20]. **boundaries** [Ven19a]. **Boundary** [NS85, jAS15, jAS21, BD88, BGLSSS20, Cha18, Che14b, Che16, CN07, CN08, ERS12, GMZ17, GW08, LLS14, LLS16, NNT95, Nak95, San14, Spi00, TG09, Uhl14]. **Bounded** [NP73, Bou18, CLN13, Dra18a, DK21, GMV18, HJ20b, Hos22, HL20, JKD16, KK22c, LS22c, Loe01, MRS10, MBB22, Pep19a, Pop17, Rho94, SPMR20, Sai21, SRT22, dNV19]. **Boundedness** [SXR18]. **bounding** [MH19]. **Bounds** [Cla92, GSS09, GRSW92, HHY22, Joh22, KS07, LLS10, LCLL22, Lia23, LL15, LL10b, LSZ86, MT22b, Min80b, NS15, Rad12, Rum97, Sch92b, VM07,

Wal11, WMFW21, WLM21, YJ21, YHS13, ADJAH22, AS12, Ben90, Bén11, BR19, CQW16, CW10, CW11a, CR77, CGH14, Dat16, DTS14, GLL18, GHL10, GM21, Hav88, Hon99, JKB17, Kar83, Lás91, LZ11b, LGA+13, LL17, LS22b, LS12, LS13, LZ17a, MC89, Mel13b, Mel19, MZ15, Men22, Mer81, MNS22, Neu84, PLH01, Pat87, Rho87, Rho90, Rho94, Rob75, ST94, ST15, Sha91, SWL13, Sou03, TD14, Tia17, TW19, WfMR16, WW20a, Wan22a, Xu22, YZ14, YSY17, ZYL13, ZVL18, Zho16]. **Bourin** [DHHK23]. **Bourque** [KMH19]. **Box** [BMFPBSS21]. **Boyle** [KNX95, KNX93]. **braces** [Rod22, Zhu22]. **brackets** [Kay17, Zus22]. **braid** [Abd09, Lip87]. **braided** [Zhu22]. **Branch** [JS08]. **branching** [CPT15]. **Brauer** [HK13, LLL15, LZL16, Mel10]. **Brauer-type** [LLL15, LZL16]. **Brègman** [Sol00]. **bridge** [Ste94b, Wil93]. **brief** [BL92, Far93a]. **Broadcasting** [YGZC22]. **broken** [BS95]. **Brouwer** [ABGP21]. **Browder** [AFM13, BHC16, BCM18, ZZZ16]. **Brownian** [Suc22]. **Bruhat** [FF21, TT15]. **Bruhat-graph** [FF21]. **Bruno** [Wen06]. **Building** [RRR+22]. **bundles** [CP10, KL92, Lla96, Per19, Sch22, SL95]. **Bunyakovsky** [Dra11]. **Burnside** [Law19]. **Buzano** [Dra17a].

C [Ano97b, Day97, Don91, GKO22, GPR84, Min74c, New97, GT08]. **C*** [JKH20]. **C*-module** [JKH20]. **C.** [Rub89]. **cacti** [SYZL17, WDJ10]. **cactoid** [DM22b]. **cactoid-type** [DM22b]. **calculating** [Tia18]. **calculation** [Bel83, SW81]. **calculations** [Har96]. **calculus** [BBT07, Cro08, Net22, Nie14, Par78]. **Callebaut** [BM15a]. **Campbell** [BBM20, BB14, DST91, NST89]. **Can** [CAP22, GHL16]. **Cancellation** [Wag87]. **Canonical** [Afr73, BS13, HS09, Sta14, Sta15b, Wil93, CCU21, CFP21, GAGM18, HL09, HWZ18a, Hor04, LK16, NSW21, PS91, Uhl79, You80]. **capability** [JN22, PN22]. **Capable** [NJP19, Joh22]. **capacitated** [Li85]. **Capelli** [Reg93, Wil81, Yam18]. **caps** [Kes83]. **Carathéodory** [CH12, Sch92b]. **cardinality** [Hil18]. **carrier** [Ste94a]. **Cartan** [CC19, GLOT13, SZ19]. **Cartan-type** [CC19]. **Cartesian** [QD85, RRN22]. **case** [Bal18, BFZ07, Cai93, CH12, DLL19, FJ09, Gut01, GLS13, JLL88, Laf78, Lei83, PA10, PM23, Rai87, SvW14, tHK17]. **Cases** [JN90a, BCdHP10, Hia94, Laf78]. **Cassini** [Mel12, Mel13a]. **Catalan** [Ilk20, LM19, RRC23]. **Catalan-like** [LM19]. **categories** [BF96, Zhu22]. **category** [Nas74, Smi83]. **caterpillars** [APEPPS23]. **Cauchy** [Bay22, Boz98a, Boz98b, Boz99, Bun91, Dra11, GT11, HKO16, IK22, Oku91, Sol06, zY11, dCdSA22]. **Cayley** [Are22, Are23, Bed11, CW81, CF21, CFL+22b, CFL22a, FSFSO+14, LW23, Lud21a, LCXC22, LCWW22, NC22, Paz84, QX23, Sch95, TM19, Van95, WC22a, YLW22]. **cb** [Gog21]. **cb-norm** [Gog21]. **CD** [KK22b]. **CD-algebras** [KK22b]. **Cebotarev** [New76a]. **Cebysev** [Dra10, Dra16]. **center** [For79d, Joh22, Pat07, Zim98]. **Central** [BD13a, CKKK22a, Hon22, KKL21, UG21, XZ18, CR18, CN14, Kim13, Lip96, PP22, Per15, ZHZ11, ZWW22]. **centrality** [REG07, YZB22].

centralizer [ASAS79, dSP11]. **centralizers** [Bre15, DB14b, Ghi22, Liu16b, Liu22a, LG23]. **Centralizing** [LWXF15, XWF15, Wan16d]. **centrally** [LT22b]. **centre** [AFJK17]. **centres** [HLYZ22]. **centroid** [AFJK17, Pat07]. **Centrosymmetric** [CMP22, LZ22]. **Certain** [Lev74, MR74, RJ04, ARK22, AL21, AFW22, BK83, BWF83, BP98b, BS18a, BD85, BDH23, BFI22, Cha88, CCW20, CFL22a, CN08, Düf97, FV97, FJM00, FX12, Fei75, Fri90a, Fri97, GZ76, Gol79, HSX16, Hem93, HT92, Hul81, JC22a, JN22, JN00, KM19, Kit91b, LT88a, LT90a, LP93, LLWX17, Lim15, Lon83, LSZ86, MS83, MSO83, MS79, MHA17, MO13, MGA17, MM76, MSS18, Mou13, Ota13, Pat77, Pat89, Raj09, RA21, Rho94, RF19b, Tom19, WHX08, Wea83, vR11]. **Cesáro** [Geh15, RF19a, Roo20]. **CFI** [DC23]. **Chain** [AADdF23, AAKS21, AS11b, MS10a]. **chained** [LMLL17, SC21]. **chains** [BC94, Gue17, Gue19, Gur98, HWX22, HH14, Kir14, LT12b, ME18b, NR23, ORT15, PT10, Sie99, Tan10, TLL11, TLC16, XL11]. **change** [BCdHP10, Har81a, JLDS12, TLC22, TJ21]. **channels** [Ter22b]. **chaotic** [FJK98]. **Chapter** [BLP92, LT92b, LT92c, LT92d, Lim92a, Loe92, McD92a, Pie92c, Pie92b]. **character** [DF87, FJK14, Fon89, HT91a, SS98]. **characterisation** [BKS12, Laf84]. **Characteristic** [Ben74, BH74, Fit94, GB77, Ger04, KNS96, KL92, Mir81, Nom73, Ric81, SL95, Tre87, AFJK17, Ami80, BS15a, BP98a, BG79, CNW18, DP09, DM19, Ful76, GMZ11, Hai88b, HZ21, Li84, Lit17, MR18, Nor95, Nor08, Pat07, Prz92, RC22, Wad85, WW12, Yao22, Zim98, dO75]. **characteristics** [Abd20, AHK92, HS89, HS91, Koh11, MMRR16]. **Characterization** [AH13, BP12, CMR20, CSS21, CDPS23, FJK98, Geh15, HDJT97, HOT15, Liu16b, MPD22, MDP22, MB22a, Sed11, Šem97, WM17, AAS14, AXH15, Ben78, BS15b, Cha77, Đok73, Dom14, FA19, HH89, HLZ11, JK10, Kir04, KL21b, KKL18, Koh11, LM95, LH13, MH16, MS83, MW23, MHA17, McD82, NP80, Nik22, Pan15, SPMR20, Sel81, Shr90, Ste94b, TL13, TG09, TWZ16, WSH$^+$11, WBZ14, WW15, Yua98, ZB13]. **Characterizations** [AH10, An18b, BT08a, De 78, DOP22, FLT20, FdSV16, FXY22, GWW20, HLH18, JQS13, KCSĆ21, LK21, Li95, LZ11a, LC18a, LG23, ML21a, Ma22a, Pan13, Ruc89, SRW07, SZWB16, WL15, WZD16, Wer94, YZ13, ZXL16, ZP19, ZCP18, BJ96, BM18b, CZWF23, CM22, Dic84, ES98b, FZ21, GZZF23, Iop19, LST89, SSfW15, lWW15, XCM20, ZWL15, Zhu18, ZIC22]. **Characterized** [EMS02]. **Characterizing** [GKT97, Joh11, LZ14a, Qi15]. **Characters** [Leh76, Nie22a, BG79, Bri89, Fon92, Hol04, HK16b, Hua90, Kim91, Mer78b, Mer83b, Mit10, Pat93, Reg87a, Sil84, Sta84, Zha21]. **Charles** [Ano79b]. **Chebyshev** [Ma'15b]. **checking** [RR95]. **chicken** [Pan20]. **Choi** [KMN22]. **Choices** [AP74]. **Cholesky** [DO20, FS22]. **chordal** [JL93]. **chordality** [BJ96]. **chromatic** [SD20]. **circle** [BL21, Dat80, LB19, Tho92c]. **circles** [SX23]. **circuit** [DP98]. **circuits** [Mer83b]. **Circulant** [GN02, Sjo93, Wat85a, BSA17, Bom02, BKMMG22, BT15, BH20, CH22b, DPP17, FL18, GKS01, HFSZ22, MSS19, Mou22, Pal21, XJW17, ZQZ21].

Circulant-style [Wat85a]. **circulants** [GK18, Ikr15b, New80a]. **Circular** [BJZ13, GWW16, Tur16, CL13]. **Circularity** [Tam94]. **Clarkson** [Kan87]. **Class** [AHJ20, Ber02, BR04, CL22b, MSZ04, jAS21, BK21, BL10, BH23, Bas19, Bea83a, Bea83b, Bea84, BR01, BM89, BZZ11, Cha78, Cha96, CDPS23, Cla92, CFP21, DD10, DRY22, DS09, DWL14, Ell95, ES76a, Fal97, FNBR96, GMW86, Hon22, HM76, HM78, HM22, IOMA21, Joh22, JN22, JP86, Jun88, KM19, KM17, LT93, Luo19, MRT16, MC82, Mer82, Mou13, PSMA16, Pal21, Phu80, PSB23, Pok87, Rei75, Sed11, SGS05, Sol80, WG91a, Wat82, WY18, Xio23, XW22c]. **Classes** [GK02, MR74, ARH15, Ano22a, BS18d, CT22, CL86a, CL86b, DP00, DF95, FJM00, Fie95, GCSC20, Hil76, HT92, HK13, HK16b, Hon99, KSMB16, KCBR87, KS76, Kur04, Lim76a, Lim76b, Lim82, Lim90b, MS08, MS83, MSO83, MC86, MH20, MM76, Mer78c, Mer79c, Mos20, ND05, Pop14, RH11b, Rob77b, RC18, Sil88c, Sil90, Sil93, SS96, SMM22, yT86, Tau81, Tra89, Tra90, WG91b, XHL23, Zho16]. **Classical** [CK20, HZH20, CW81, CGY13, CKL16, CJK$^+$13, Dic84, DBG18, Gra10, GL16, GLLM21, Hua16, Mar89, PLLL20, Shc21, Ste82, Tam97]. **Classification** [CLOK13, Đok83, GR93b, Hai88a, Hai92a, JST18, Kar90, LK23, MR17, NR23, RH11a, Rom89, Shi18, Tia21, TJ21, COK20, COK22, CF15, GKO22, Hai97, KK22b, Koo95, Lia80, MC19, Sol80, SLH16, SLH18, dlP20]. **Classifying** [BDV19]. **Cleavages** [dlP09]. **Clifford** [AF11a, AF11b, AF12, Ang00, Chi78, GR93a, LS16, Per19, PV20, Shi18, SL15]. **Cline** [Mos15]. **clique** [LL15, LZB23]. **cliques** [AS11b]. **close** [KK16]. **Closed** [BN22, BSA17, AL22, HS83c, Li92, LD19, LP22c, LP22b, Muk20, PY82, RAN22, Wat85a, Zha14b]. **Closedness** [CLP22, LP22b, LD17, SXR18]. **Closure** [BZ89, Lim00]. **closures** [Koi21]. **clover** [WW15]. **clusters** [LY22c]. **CMP** [CZWF23, Ma22a, XCM20]. **co** [Mil15, SMBB$^+$15]. **co-flag** [Mil15]. **Coalescence** [GM90]. **coalgebra** [HT12, Pan17]. **coalgebra-graphs** [Pan17]. **Coalgebraic** [Wis12]. **coalgebras** [ALP22, Iov15, ML16, Pan19, Pan20]. **coapproximations** [SSGP23]. **coaxial** [Vei83b]. **cocharacter** [Car88]. **Cocharacters** [GMV18, Car06, Di 88, Rem88]. **Cochran** [TS05]. **cocommutative** [LW20]. **cocycles** [Dra21a]. **codes** [AS15, CHFC19, CW93, GTLN18, Hou09, KLZ10, Koo95, KP14b, La 19, LL22a, LLY22]. **codimension** [COK22, dB16]. **codimensions** [Iop19]. **coding** [Gor83]. **coefficient** [BV16a, DH86, HT12, LLC22]. **coefficients** [AEG19, BB19c, CR22b, ĐL92, Đok93, GPW22, MH22, Sen83, Tan12, ZZ15]. **cographs** [Gho19, LST23, Tur18]. **Cohen** [Cam14]. **Coherence** [RST22, CC23a, CP16, DO19, YGZC22]. **Cohomologies** [ZLS22]. **Cohomology** [AC19, Zha15c, BCS18, HH22b, Hou17]. **cohomology-decreasing** [BCS18]. **coincidence** [BT22b, Rom22b]. **Coinvariants** [CNW18, MCIM21]. **colength** [dNV19]. **Collatz** [Zar01]. **collections** [LR89]. **color** [KP16]. **colored** [SGS05, SG09b]. **colorings** [Dia90a, SG09a]. **colour** [Zha15c]. **coloured** [KP12, KS22b]. **colouring**

[LZB23]. **Column** [BZ90, GZ99, SK03, BT13, BCdHP10, FV97, HKS94, LSOvdD95, MSS18, Mum86b, Sal79, SS12]. **columns** [MNS22]. **comb** [Gol21]. **combination** [BB06, BZZ10, For87, Pat83, PUÖ15, RRC23, Xu15]. **combinations** [BB20, BT08b, BLZ10, BR10, BSÜÖ13, Den14, ES98b, FD12, For88, IK18, KKR12, LD17, LWY11, LWB11a, LWB11b, MM90, Tia11a, UÖÖ15, UPÖ16, ZCW21]. **Combinatiorial** [Tra90]. **Combinatorial** [AD17, BM18a, BM18c, HS91, Tra89, CW89, CRY95, ER90, RS18, Reg87a, Wan79, WW01, Wil73, BM19b]. **combined** [BGGS17]. **Comment** [Gro96]. **comments** [TT78]. **Common** [BDK$^+$05, GKLR82, KD23, Son14, Bar80, BKS12, DMdO92, JP15b, JN90b, TT06, Wil87, XW22a, Zha04c]. **commutant** [BBEL18, JS94]. **Commutation** [XHL20]. **commutative** [Bas17, Bas19, CL22a, CZ23, Coa99, CAP20, DM18, DO20, FLT20, Fre76, Gar21, Gus81, KK22a, KT19, LCL13, LL10a, lLpW16, Mar12, Mas10, OWX09, ySpW17, ySpWQ21, SM19, Son22, SZ19, Tan13a, Tan18a, Tan20a, TZS19, Tia11a, Tia11c, WOY06, WZL13, Wat85b, YLW22, YW05, YWO07, ZWZ10, dTS20]. **commutatively** [AL22]. **Commutativity** [DŠ04, JR93a, JR93b, Kun99, BZ89, CY22b, DS13, DK16, Fošo5b, GR93c, HQ18, JQ15, LL11, Liu15, MS10a, Mol09, Pet97, QH17, Slo16a, WZL13]. **Commutativity-preserving** [Kun99, CY22b]. **commutator** [BLR12, Fei79, GPR84, Gur79, GL83, MW74a, Nof15, Obl12]. **Commutators** [RR02, Smi76, BKL97, BH15a, CLR81, DP18, Est80, GG22a, Gil17, HS17, Hou22, KL12, MS95, OR09, Rob77a, Sha18, Slo13a, WZC11]. **Commute** [Ric81, Tur02, BT08b, HS83a, KE82, Sin76b]. **Commuting** [BD22a, CKT20, CW22, Dra13b, Fra13, SB03, AL21, BH90, Bea78, BCM18, CM19, CC19, CW23, CWSZ17, CSY18, CKL16, CK20, CL21, Cos21, DKY22, EGMS22, Fra17, GJR22, Gur92, KT21, KKY22, MS10b, TCI13, UPÖ16, Wad90, Wan79, Wat77, Zel75]. **comonads** [EGT16]. **comorphic** [Bre21]. **Compact** [DC20, DH17, Kan16, Kit91b, MT11, Pep11, RRN23, Rao18, Ruc89, Tam97, XS18]. **companion** [BT90, CC21, ERS12, LC20, MR12, Mel19, PH97, dPN81]. **compared** [Neu74]. **comparison** [BS92, Blo95]. **Comparisons** [JM13]. **compartmental** [GOS22]. **compatibility** [RST22]. **compatible** [dSP16b]. **Competition** [JKY23]. **Complement** [Zha04a, AA21b, BT06, CPLH17, GAMA23, LM98, Neu81, PRS03, SL95, ZJC$^+$22]. **complementable** [GS20a]. **complementarity** [CLW21, DN18, GLL18, HZV23, JDD21, LZ16, Li21a, LLV18, MM06, MN96, MB22a, ND13, SC21, WS18, Wan22a, Wer86, WL16c, WZY22, ZVL18, ZV19]. **Complementary** [BM15a, FS14, MF20b, Sta20]. **complemented** [ACO21]. **Complements** [Nie10, Bap88, BS18b, Bru79b, CS95, FJ15, Gib92, LHZ22, PV23, ySpW22, Smi83, WZ97, YLW22]. **completability** [JJK95]. **Completable** [YD14]. **Complete** [GS95, JN14a, TL13, ADHM19, EM95, HZ11, HWZ18a, HJ77, IS16, Obo16, SPMR20, Shr90, Tan13b, WOW09, ZWL15]. **Completely** [AKS18, DJL94, AG15, BSM98, DJ98, GP22b, HJ19a, HJ19b, HJ20b, HH14, JP15b, Koo95,

Lei95b, LP11, MP16b, PV20, SM22a, SBMP16, Stu89, SL17, ZX16, Zha20b].
Completeness [Den05, LBV13, IS15]. **Completion** [CJ20, DS22a, BC05, BZ90, dAB21, BR01, BS18c, CKP16, Cao19, CKKY23, CP18, CP21, Der16, Der18, DS22b, DJ98, DJK08, DCLW19, Esh22b, JJK95, JN14a, JTU00].
Completions
[GMR81, Lud21a, CKGP21, GKV89, GRSW92, JR84, JW91, Woe93, Woe97].
Complex [Ano79b, Bal78, CKGP21, CN04, ETM22, JKS79, KFR17, LPX23, Mac09, MY12, Mir81, Sah21, Wal73, ABC18, BH23, Bal14, BPR20, Cha90a, Che22a, CT09, CH87, CL74, ĐL92, Đok93, Gór22, Gut23, HK21, HHY22, HZ12, HQ18, JVMCPR19, KKL22, KL19, Li84, LT88d, LM93, LY22b, LHS$^+$21, LZ19b, LT07, Mag22, MF92, MKS22, RH11a, RH11b, RŠ06, Rom89, RS23, Sin82a, Sin84a, ST91, ST96, Soa08, Tan13b, Tan18c, TMH21, Tie16, WL18a, Wes81b, WL23, ZH22, tHK17, KSU22, KFR20]. **complexified** [Shi18]. **complexity** [BZ89, Con90, Har85]. **complic** [Bal79c]. **component** [BCS14, Das17, Fan73]. **components**
[Bén10, KF98, Lla96, Mum86a, NS92, NS93, Vo83b]. **Componentwise** [Rum97]. **Composite** [Que08, KW93]. **Composition** [Tau81, LPX23, TH80]. **composition-differentiation** [LPX23]. **Compositions**
[AY93, BM07, Wil73]. **compound** [dCdSA22]. **compounds**
[BC91, TMOvdD93]. **Compressed** [DJS21]. **compressing** [EM15]. **Compression** [AP04, GW04, JM85]. **compressions** [Far94]. **Computation** [CN21, KK16, SKP18, BL21, Ma'15b, Miy22, Uhl14]. **computational** [Zel85]. **computations** [DOP22, Net22, Uhl20]. **Compute**
[YZ16, FP17, McF79b, SX22, vD96]. **Computer** [MP87a, KCBR87]. **computer-generated** [KCBR87]. **Computing**
[Car06, CD15, HJ20a, Ous15a, PS91, Rem88, Roh00, Sta15a, Uhl13, DK23, FHZ17, GA85, GK18, KPL$^+$09, LL22b, MZ22, SN22b]. **comtrans** [BE20]. **concave** [AHK19, AA12, JK22, Tam02]. **Concavity** [BD85, Mat90, Sra20]. **concept** [SST22]. **concepts** [AR15, Shi15b]. **Concerning**
[Har96, Sin80, Sin81a, Sin93, ST99, Tau74, BK87, DS23a, GAMA23, GT79, Gyi78, KNX93, KNX95, Mou13, Sin82b, TT78, TH80, Zou12].
Concomitants [BB96]. **condensation** [Cal91]. **Condition**
[KK22c, LPS09, LZS23, SLW21, AADD18, CC98, DS13, DLQ18, DKK19, HB83, Jam88, Jam95, LLW$^+$11, LL17, Liu17, Pal79, Rou98, Zim98].
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[CMM22, HS12, NS22, BG16, FHZ17, JS19, JE21, Joh82a, PSW18].
Conditionally [Józ15]. **Conditioning** [WY21, Que08]. **Conditions**
[AKK$^+$23, Gam18, Ibr00, JKH20, JNT96, Lim92b, PH03, AE10, jAS15, jAS21, BMGMC15, CHQ18, CIRW21, DS23a, DJK08, EOvdD09a, EOvdD09b, GMZ17, Gue17, Gue19, HB83, Hua16, Ikr15a, LCLL22, LP23, LLF18, LT22a, LOO22, Lu22, Mar90, Mat11, Mil22, Oku93, Pet09, SQ15, Tia05a, Wan82, WYSL22, XZW22, ZW17b]. **Cone** [KS02, LMR00, And96, FU20, Hil07a, Hil11, MB22a, Pat03b, TB92, YH05, Zha20b]. **Cone-Systems** [KS02]. **Cone-transitive** [LMR00]. **Cones**

[FH73, HS88, SS79, AGP22, Bar74, Bar78, BC80, BKS12, CLL14, Hil07b, JP17, NS85, NST91, Pro22, SH21, Tam77]. **conference** [Ano79c, ETM22, LRT08]. **configuration** [NS09, Nat13, SG06]. **configurations** [CMM22, TL13]. **confluent** [MZ22]. **conformal** [aCC17, CSY18, DH18, GZW20, Hon19, Hon22, TZ19b]. **Congruence** [LT92a, Lei98, MA75, ACI15, Bot97, FJ01, FJ09, GL97, HH89, HS09, JR09, Lei91, Lei95b, LM93, LPWX10, Tam85, Tho80, Wat90, Wil83]. **congruences** [HH85, Ikr15b]. **Coninvolutory** [SX23]. **Conjecture** [Kit81, Wan07, ABGP21, AYT83, BMD87, BD96, Bri89, Bur11, Cha89, Cha83a, Cha84b, DJ89a, EM95, EF98, Esh17, Fie84, For79c, Fri78, Fri82a, Gib87, Gou13, Gum15, GLS13, HS93b, Hu87, Hu94, HL10, Jia92, KM84, Koo95, KMH19, Law19, Lon80, Lon81, ML12, Mal89, MR07, Min74d, Min82b, Moh15, NT94, Obo22, PS22, Pat89, Pat93, Rad80, Ric85, Ric87a, Rub89, SYZL17, Sil84, Sin81b, Tam86, Wan77, Wri93, Yu96, Zou12, dF05]. **conjectured** [Tho86b]. **conjectures** [Ash16, Cha90b, GSZ22, Kop94, KAE22, Meh84, Shi16]. **conjugacy** [Ell95]. **conjugate** [CD01, JTW17, YCZ21]. **conjugate-Hankel** [JTW17]. **conjugate-Toeplitz** [JTW17]. **conjugation** [Gal01]. **conjugations** [CDPS23, HL21]. **Connected** [BB19b, KS17a, RP90, ABP22, ACMR17, BH20, LS22b, LOO22, MT11, Put82a, Put82b, SS23, SSfW15, SHS17, XZW22, YSZW22, ZZZ23, ZW17b]. **Connectedness** [MT11]. **connection** [KP14b, Lon73, MZ17, MP98, MA15c, ZG08]. **Connections** [Wal79a]. **Connectivity** [FKP03, KP02, ZG11, AA21b, AL21, BP98a, BLP12, DWL20, FHZ17, Fie90a, GZY18, KS19a, KN97, KF98, Kir00, KMN01, KN04, LCC17, LS21a, Vo83c, Wu05, YSZW22]. **consequences** [GT11]. **conservative** [Dag23b, Ilk20]. **considerations** [AdF21]. **consistency** [FHW16, lWY19]. **consistent** [Gib89, Sti87]. **consisting** [TL12, WC22b, ZWW10]. **constacyclic** [CHFC19]. **Constancy** [Bal79a]. **constant** [BF75, CDK22, FV97, For79b, Fre76, GLR82, KS93, Kut19, LSOvdD95, MH19, Wes90]. **constants** [CLL14, Che95b, Gol87, JRMFMASS16, Ma'15b, MFPSS12, NASR19]. **constrained** [KD23, LMR94a, LW10, Nak95, Pap13, SW22, WY21]. **constraint** [HM22, fLLyP15, ZHZ11, Zha22]. **constraints** [Din98, XY22]. **Construct** [GLL21, CG17, Slo14a]. **constructed** [COK19, LF16]. **Constructing** [BBCD21, GPM14, LV18, LF15, Sou83, WCS+21, Wri22a, MMG15]. **Construction** [Ber86, Far22, HK16a, JW22, KW92, KW93, Mai11, MC86, SDVWT16, Smi05, Son22, Sun15, Wal75b, WW80, Bha93, CSG22, CC17b, CPKK22, Far93b, Foa79, GZW20, Hun83, JS08, JSW09, KP22, TT74, TZ21, Zhu22]. **Constructions** [BW15, FZ21, MTR11]. **Constructive** [Cro18, DP98]. **contact** [Zus22]. **contain** [Bas17]. **containing** [Che22a, HW75, Pat84]. **contents** [Ano92g]. **context** [Boa19, BDvW12]. **continuation** [CNW21].

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[Cam80, CJK+13, GCP21, Mey15, BBX20, CP13, LLS14, LLS16].
Continuous [LP16, Poo17, Slo16a, TS21, ADRP14, BMFPBSS21, CHZ22, FZ21, GT08, HF18, JK10]. **contract** [BVW84]. **contractions**
[FH89, Grz91, HS83b, MPD22, WZD16]. **Contractive** [CKKY23, XXZ11].
control [BL80, CF15, DHKSH08, DHKS16, Har94, Igl99, Lia80, ShDHG08].
Controllability [FKS22, JTU00, Sil95]. **controlled** [SA21]. **conventional**
[HJ87, JN90b]. **Convergence** [Doo16, Haj18, NST89, Szw18, BB14, BBM20, CLW21, HK21, KV22, LW17, Li21a, Neu84, SAK22, Xu18, ZV19].
Convergent [CP81, Dag23a, SES21, YZH19]. **Converse** [JN90b, NS18].
Converses [Mar76, SV14]. **Conversion** [CA03, CD98]. **Convertible**
[Ber12, CD01, HK92, HKS95, Kim97, KS83]. **Convex**
[And04, ES98b, ES00, EMS02, Fri81, GP22a, JT95, AHK19, Anj17, AA12, Bar78, BPD88, Che17, DW92, DV18, For88, Fri84, Gil12, IOMAN21, IK22, JK22, KJF23, KD16, Li86, Li87a, LST89, LT89a, Li98, MM90, Poo94, Prz92, SSZ93, Tho75a, Tho75b, TI77, TT18, Woe08, dlP20]. **Convexity**
[Hwa91, LP22c, ST96, AY84, Dra21b, IK20, KMRS89, Lék19, Li96, Man87, MFS22, NY23, SP87, Sra20, Tam97]. **convolutional** [GY22, La 19].
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[BS17e, FJZ21, Hil18, SM20, SQ15]. **coprime**
[LT12b, Tan10, TLL11, TLC16, XL11]. **coproducts** [Nas74]. **Copson**
[CW10]. **coquaternions** [FMSS19]. **coranks** [Ger86]. **Core**
[BT10, FM22a, Mos21a, PM14, Rom20, BY76, BBX20, CC21, DLD21, FM22b, GCP20, GCP21, LC18a, LCZW19, LC20, LZ23, ML21a, Ma22b, MRT14, Mar18, Mos19, MM22b, SX22, WL15, WLL21, ZCW21, ZC22, ZP19, ZW20, ZWM23]. **Core-EP** [Mos21a, PM14, DLD21, GCP20, GCP21, Mos19].
Core-Nilpotent [Rom20, Mar18]. **corona** [CL17c, LZ14b, Ng22, WZ13].
coronae [LPH17]. **coronas** [BS17a, DP17, LLZ22, Sta10, TYC21, WLW23].
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[Ano20a, Ano20b, Ano22a, Cal99, Đok93, Tra90, CKL+21, MS16b].
Corrections [KNX95, LLS16, NS93]. **corrector** [Chu84b]. **correlated**
[Sma17, TJ16]. **Correlation** [JT04, Pat03a, PV20, Dat16, Lov21].
correspondence [Foa79, Wat86]. **corresponding**
[Bén10, CL86a, CL86b, FD14, Har81a, Kyr08, Kyr11, LD19, SLUG04].
Corrigendum [Ano17, Ano22b, Bou14b, BM19b, HJ19a, KFR20, Raï14a, Sło18a, Sło18b, SLH18]. **cosets** [Hol04, Ner22]. **cospectral**
[BB19b, BBCD21, But10b, CDG23, HS95, KP22, LV18, Sta22].
Cospectrality [Obo16, Tur18]. **Cosquares** [Bal78, Bal79c, Rad80].
costandard [GMZ11]. **cotangents** [Cal95a]. **countable** [dSP22].
countable-dimensional [dSP22]. **Counterexample** [DJ89a, EF98].
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[KK90, Ota13, LZB23, Sur98, Wri22a]. **coupled** [jAS15, BS17d, Pen15].
covariance [TJ16]. **covariances** [Kan94]. **covariants** [Bed10, BB17c].
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coverings [But10a, MS10c]. **covers** [CG16, Sch95]. **Cowen** [Bol12]. **cp** [SMBB+15, SM22b, GLM+22, Heo16, SM22a, Shi16]. **cp-rank** [SMBB+15, SM22b, GLM+22, Shi16]. **Cramer** [Che93b, Che93a, Kyr08, Kyr11, Wer84, WY18]. **criteria** [GB77, HM19, Joh14, WSZL17]. **criterion** [BGdH92, Dix79, GPM98, JP15b]. **Critical** [Cal97, Cal99, Gei78, KOvDD09, AVVÁ18, DLL19, DH16, HJP17, MNS22]. **cross** [Dat16, Joh14, ZHH09]. **crossed** [NY21]. **crown** [Mir23]. **cryptology** [MZ17]. **CSR** [MNS22]. **cubic** [BH20, GR10, HKT15, LR17]. **cubics** [Wri93]. **Curvature** [Jac79, MZ91]. **curves** [CN21, Ma'15b]. **cut** [Fer10a, HZ03, KM98, WH11, Zhu15]. **cut-points** [KM98]. **cutpoints** [Kir00]. **cuts** [Mer94]. **Cutsets** [BS93]. **Cutting** [Ost74]. **cycle** [BP90, HO17, JJK95, Kir09, Vo83c]. **cycle-based** [Kir09]. **cycle-sums** [HO17]. **cycles** [CT16, DHKS16, FdF09, KK19, LN16, SG09b, Tik22, WSH+11, Wil93]. **Cyclic** [KW89, BL93a, BS17d, BP09, CP15, CP18, CP21, Hua01, Lew77, LEH96, LDL17, LW23, MW15, MS10b, dSPdS22, SMF95, WT16]. **cyclicity** [AFA22]. **cyclotomic** [New93, Zha21].

D. [KM84]. **DAHA** [Hua22a]. **Dam** [zY11]. **d'amorcage** [BC06]. **damped** [YZC21]. **damping** [LLLY23]. **Dashnic** [LHZ22]. **data** [BCR91]. **Davis** [Alo23, CNP06, DW23, KMN22, ZMCN19]. **Đoković** [Lon81]. **decidability** [GB77]. **Decomposability** [Wes96, LK16]. **Decomposable** [MC78, Mar78, dP74, BD97, BLD91, BL92, CL95, Che94, CL94, CT09, Har87, LT88b, LZ01, Lim92b, Lim97, Lim01, Lim10, Loe01, Lov21, MF79, MC80, MC83, MC89, Mer77, Pat90, RS17, yT86, Wan82, WG91a]. **Decomposably** [GP96]. **Decomposing** [Sza09]. **Decomposition** [AJL14, CM85, LP02, YQ90, BDH23, CM92, CH87, DO20, FLS88, Gow22, GHT16, Gut22, HMR22, HT10, HZS22, JW22, Koi21, LK16, Li21b, Mar78, Mar18, QD85, RRN22, Roi99, Rom20, SRT22, Smi83, SZ19, Sta15a, TZ19a, Ter22b, Ter22a, Tia11a, WL20a, jXL15, YZ16, Zha15a, ZZC17]. **Decompositions** [CKS19, DGL22, Fen10, BB17a, DNY22, Fur08, GCSC20, GVS96, Hor04, HLZ18, HLYZ22, Kru06, LMMR01a, MG22, Sta20, YLX20, YC19]. **decrease** [Sin76a]. **decreasing** [BCS18, NY23]. **Dedekind** [FSvW11, GMR81, Tan18a, Wag87]. **Dedication** [Tho92a]. **deduction** [Joh82a]. **defect** [CK17, SU77]. **Defekt** [SU77]. **deficiency** [LS22c]. **deficient** [LLF18]. **defined** [Dag23a, ES76a, Erd22, GP06, HSM17, MDP22, MC80, TR21]. **Definite** [DH03, ARK22, AO78, Bak84, Cha92, Cha93a, Che92, CKS20, DHHK23, DPP17, Dru15, DWL14, ESH23, Fan73, Fan92, Fla75, FG22, FS15, FSY16, GMZ17, GJMW86, Har78b, HBP18, HM18, Hua22c, JN80, JP87, Józ15, LLMT05, LP22a, LL14b, Liu22b, LSX19, Mai11, MK16, Mol15, NMAB22, Pat92, ST94, WL22, Zha04c, Zha16b, ZL21]. **definiteness**

[Cha90a, Ibr00, LL16b, Sun20]. **definition** [CKP09]. **deflating** [DLL19]. **deflation** [Ami11]. **Deformations** [ZL15, AC19, Bre17, Zha15c]. **degenerate** [Ait19, ABAH23]. **Degenerations** [AAA22, KPPV18, AH20, Ano22b]. **Degree** [FdM18, Yiz03, dFSY22, BZ00, BM89, Cal94, Cal97, Cal99, CD22, Cha77, Cha79a, CPLH17, DTSI15, Ere15, FA22, Gro95, HLYZ22, HLB22, HW75, HLP23, LLP18, LLF18, Mar90, MP73, Mer78c, Mes13, O'R15, zSqSZ16, Wan22b, WY20]. **Degree-inverting** [FdM18, dFSY22]. **Degrees** [HS87, MZ17]. **delay** [CW17]. **delayed** [DHKS16]. **delete** [BVW84]. **delete-contract** [BVW84]. **deleted** [LS09, ZWL15]. **deletion** [TLC22]. **delta** [HMK22]. **Demicompact** [JKZ20, FJK22]. **dendriform** [Bre17]. **Dénes** [Aha76]. **dense** [LCG+23]. **denseness** [GR23]. **density** [BLX18, GHL16, MN12]. **dependence** [CPKK22, DU21]. **dependencies** [Knu85]. **dependent** [GMZ17, dCH21]. **depth** [Vo83c]. **depth-first** [Vo83c]. **Deree** [Cal03]. **derivability** [CW11b, CW12]. **derivable** [AC21, Gha12, JL12, LPS13, LF13, Wan17a, Zha16a, ZW14, ZXL16]. **derivation** [Bah22, Bou06, Hou17, MS87, WHX08]. **Derivations** [AC21, Che03a, GPW22, Lim92c, LT22a, RC22, Vla22, Vla23, WOY06, WT23, YW10, AADD18, AH10, AH13, AXH15, AWM22, AA20, AKOZ20, AKY21, AK21, AAUN22, BD22a, Ben07, Ben15, Ben16, Ben22, Bre16, CMR20, Cal94, CGOT13, CX12, CZZ22, CQ22, Da 94, DD15, DS23a, EPR16a, EPR16b, FZ17, FA19, Gog21, Hon22, JLZ12, JQS13, KP16, Khr16, KZN22, LWZ15, Lee16, LCL13, LZ11a, LW11a, LB11, LLF14, LL10a, Lin21, LL11, LCL14, Liu16a, Liu17, LL18, Liu19, Lon76, Lud19, MJ07, Mag13, Mag14, MW74b, MA75, NZK21, Qi15, QZ16, ST99, TRD16, WY11, Wan18, Wan20, XW12, YZ13, YF18, Yan21, Yao22, YH22, ZWZ10]. **Derivative** [Tur02, Chu22, Dec74, DM87, MS81, OvdD77, ZZ23]. **derivatives** [Car20, KE82, Vei82c, WZ23]. **derived** [CHFC19, EB17, HS91, Ilk20, NJP19, Ogu20, SK15b]. **described** [Gon17]. **Description** [AA20, AAUN22, GMZ11, AC23, Bal18, Hil07a, Hil11, Li92]. **descriptions** [XHL23]. **Design** [Chu84b, PS22, WM84]. **Designs** [GK02, NW02, CPKK22, Der83, GGW76, LN10, Sma17]. **detection** [Kar90]. **Determinant** [CD03, Nag17, BS15b, BM07, Cal91, CK20, DM22a, FV97, FLR85, Han19, HS96, Hon91, JOTvdD94, Kua18, KAE22, Lau81, LSOvdD95, Lim79b, Lit17, LC83, McD82, Min77, QK92, RRC23, Rou98, Vei82a, Wen06, ZZ23]. **Determinantal** [BJ94, CNUV16, Kyr11, Kyr21, YW09, AdF21, BP98b, BM18a, BP18, Dru14, DL14, DdF22b, HL84, Hon92, Hon93, Li92, LZ17b, Lon97, New79, New82a, Vei83a, YLC19b, dC13, dC15, dC18]. **Determinants** [BT15, HKP23, HZ11, KS22c, LT12b, MN80, Mah82, New80a, PA94, Pri78, SvW14, TT12, Tan14, TT78, WC22b, BMD87, Bla77, ES73, Est80, FW86, Gar75b, GSZ22, Hon99, HH14, JNT96, LPS08, LM19, Loe87, MM22a, MS89, Min80b, Odo83, San14, Sim83, Sto79, TX13, TG23, Tho75a, Vei82a, Vei82c, Vei82b, Vei83a, Vei83b, WW20b, dCdSA22]. **determination** [CLX22].

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double-zero [SH92]. **doubling** [HM18]. **Doubly** [AS95, CW93, Joh81a, Mer98b, Sin73, Sin76a, Sin77, Sin81a, SHC02, SJ02, Ach77, Ben78, Bru85, BS08, BD13b, BD22b, Bur95, CKP16, CK17, CCKL20, Cha83b, Cha84a, Cha88, CCW20, CL05, DJ98, Esh17, Esh22a, Esh22b, Fie90b, For79a, FS86, For88, FM78, Gib76, Gol92, HJP17, Hwa85, Hwa91, Joh73, Joh74a, JNS23, KS76, KS82, LM89, Mal91, MKS84a, MR07, Min75, Min82a, Min84, Mou04, MAM15, MA15c, NMAB22, Phu80, Pif87, Sin76b, Sin80, Sin84a, Wal75a, Wan76, Web83, dF13]. **doubly-stochastic** [Web83]. **downdating** [FS22]. **Drazin** [Boa13, Bou13a, Bou18, BZZ11, BSZW13, Cam80, Cam83, CS22, CICX09, CIP18, Cve18, CM22, DCIW10, DD12, DK22, Gar23, HBM15, KW11, LPT13, Mos15, Mos21b, Pab22, Rom19, Rom21, Rom22b, SPM14, SPK15, SKM17, WfMR16, Wei98, mWyD11, Wer87, XSH18, YZZ20, ZZ16, ZMG20, ZWW22, ZCCIW12, ZZC17]. **Drazin-inverse** [SPM14]. **Drazin-Moore** [Rom21]. **Drew** [Hu94, Moh15]. **drifts** [WS23]. **DSS** [EBB18, LRD21]. **DSS-weak** [EBB18, LRD21]. **Dual** [IKR12, BBX20, CFZ23, CDK20, De 08, DS23b, DLQ18, DF95, Din15a, GLL21, GC22, Gut22, LC18a, LCZW19, Man91, OP13, Oku93, PJ90, SX22]. **dual-numbered** [Gut22]. **Duality** [LT88a, LD22, BL83, Bar78, De 75, Joh14, Pro22, SA21]. **duals** [HLT22, LD22]. **due** [TLC22]. **Duffin** [CLX03, GZZF23]. **Duhamel** [KT06]. **duplication** [JS08]. **Dyads** [dP74, De 78]. **dynamical** [JL22, MW19]. **Dynkin** [BB14].

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[AAKS21, Har78a, JSE90, MMRR16, MS21a, AHJ20, AHJ21, ABP22, Ano16b, Ano22a, BNP06, BLP08, BGM22, BMP22, Bel15, BPS16, BPW16, Bén11, BCK15, CC17a, CQW16, Cro18, CCLN16, CR90, Das21, ES76a, Esc93, Fan05, FdF09, Gar85, Guo07, GZ22a, HA22, Har95, Joh84, JL85, JLR$^+$92, JD99, JLS09, JLDS12, JST18, JNS23, KMT96, LP00, LLF08, LLZ13, LLL15, LL16b, LZL16, LW12, LZ15b, LPW17, LXG17, Loe73, LHH18, Mag22, MH20, Mel19, Mel22, Mir18, MMG15, MS15a, Obo22, PLH01, PMP22, dSP12, PSB23, Rea96, Sad23, SL19a, SG96, Shi15a, Sim95, Smi05, Sta10, SW22, TXL21, Tho92b, TJ21, Tre85, Tre86, Ves80, Wal11, WWWT22, XZ16, Yin21, YWZ21, YZC21, ZHZ11, ZCLW22, Zhu15].
eigenvalue-eigenvector [Har95]. **Eigenvalue-free** [AAKS21]. **Eigenvalues**
[AHT85, AM85, And04, jAS21, BWF83, But10a, Cas91, FJM00, FIS06, GKV89, Gro95, HLP03, MS95, RM22, Rod02, Ter09, VH95, Wea83, AM13, ADHM19, AAGL22, AAD22, ABGP21, AS17, AB78, Ano79b, Ash16, AOTR11, BS21, BF05, BOvdD91, Ben90, BT07, Bru82, CTW15, Cra09, Da 05, DFK19, Das04, DAH19, Deu80, DL22, DIJ23, ĐM79, DJ89b, DWL20, DZ22, Edw78, ELG88, EJ91, Esc93, FDLB20, FJ15, FWZ11, FS14, Fer10a, FW13, FS89, GAMA23, GRSW92, GJMW86, GZ90, Gue19, GHK16, GZ22b, Ha89, Her83, HS93b, HUZ17, HL22, HW75, Ilm16, Jin17, JKB17, JKS79, JS08, JSW09, Kir91, Kir09, KLPK17, KNX93, KNX95, KK16, LS10, LST23, LXQ21, Lei18, LL14a, LS21a, LCLL22, LY22c, Liu18b, LH21b, Mac09, MVPS14, MVPSTT23, MS89, MH19, MR07]. **eigenvalues**
[Mer94, Mou13, NS99, Nie10, NTU93, Pal79, PGLM00, Ram22, SRK22, SU77, ST15, Sil88a, Sil93, Sil99, SD20, Ter01, Ter06, Tho74, TL12, WW20a, XZS19, XLS20, dLMO17, dOMD77]. **Eigenvector**
[RP90, Che14a, CPZ17, Har81a, Har95, Hav88, Kul22]. **Eigenvectors**
[BD14, AM13, AGM13, BWF83, BDK$^+$05, CT21, ER81, Fan88, FJS14, Fre76, GF10, HQ14, Lit17, Liu18b, MOvdD90, McD92b, Moh16a, Wea83].
Eigenwerte [SU77]. **Eight** [Tia10, Đok83]. **eight-dimensional** [Đok83].
Einstein [BM17a, BS22c, HM22, lLZjZ19, MWC22, PM22, SZBW16, XJS20].
elasticity [LCLL22]. **element**

[BB17b, DHS95, Fer09, HW75, LLLY23, ZCP16, ZCP17]. **Elementary** [BC91, CL13, FL16a, Gau76, MW74b, Mcf79a, MP73, MŠ02, Pie85, Sed04, Aue95, Boa13, DS16, FGK23, For87, Gog21, Jam81, Joh81b, KKR12, Kri87, Li87b, LB21, MS82b, MKS84a, McF79b, Min76, Min82a, Nor08, Oge94, Sch22]. **Elements** [Ger04, BBBS09, Boa13, BM17b, BM18b, Bre15, BS07, Cro18, Deu80, DKS09, FA22, GG22a, Hon91, HK10, KM85, LR13, sL19b, LPT13, Lim10, LL18, Lon90, MV91, Mir92, dSP16a, Sch79, Slo13c, UF22, Vei82c, WM21, Yam18, Zhu19, ZCCIW12, ZCP18]. **eliminated** [TB01]. **elimination** [BJ94, LW10, SX22, Stu92]. **ellipsoids** [Zen22]. **Elliptic** [CN15, GW08, GW12, MB22b]. **Elliptical** [BS04, GS21a]. **ellipticity** [LCLL22]. **EM-based** [CW20]. **Embeddability** [ER22]. **embeddable** [CFSRL22]. **embedded** [Fon92]. **Embedding** [Cra91, SR22, Wal86, Gue17, Gue19, TZ17]. **embeddings** [BB19a, De 08, Hor04, Pan13, SZ85, VDW85]. **empty** [LPS09]. **enclosing** [DM22c, vD96]. **endomorphism** [ZY08]. **Endomorphisms** [Bre18, PS21, GR14, Mol15, Pab22, dSP22, Rom19, Rom20, Rom21, Rom22a, Rus16]. **Energies** [YLW22, GH22, MT22b]. **Energy** [Mer94, PR08, Ste05, AMK23, BdP21, BP16, BR19, BPR20, BSA17, BBZ15, BSG$^+$12, BH20, CR22a, DLSS18, FKC19, FHT14, GB11, Hou01, KFR17, KFR20, MGKA23, MT22b, NC22, Rad12, Tan12, TW19, TLC22, Tur18, WMFW21, WL20b, WLM21, ZQC18, ZZ15, ZWS20]. **Engel** [AADD18, DS13, Liu17, Mat11, Vol22]. **enhanced** [MR18]. **entangled** [DM22d, WCS$^+$21]. **Entanglement** [BW23, Aud15, Joh14]. **entire** [SK15a, SK15b]. **entried** [dPN81]. **Entries** [Mol18, Sin81a, BGV11, BGGS17, CJ97, CL14, CKS20, FW07, FW86, Her83, HNS99, HL20, INO15, Ito16, JKD16, KT21, LHS$^+$21, Mee80, Min84, Moo76, Pok87, SG96, Sil98, STZ94, SC22, WC22b, Zel75]. **Entropy** [Zha14a, BM19a, BdP21, Drn13, Fur11, MN12, MF20b, ZBW16]. **Entry** [Che03b, Cha84a, JLDS12, KS82, SSZ22]. **Enumeration** [CJY22, Chu90, WW76, Whi79, Wil83]. **enumerative** [Whi75]. **envelope** [Chi98]. **enveloping** [PZGL22]. **EP** [Ano22c, BT08a, DLD21, DKS09, Dra22b, GCP20, GCP21, HS83b, JKH20, KDHJ22, MRT16, Mos19, Mos21a, PM14, WD17, WL20a, Zhu19, ZCP18]. **EP-nilpotent** [WL20a]. **Epimorphisms** [Slo15b]. **epr** [MR17]. **epr-sequences** [MR17]. **equal** [AW83, Bot87, Cat21, FHT14, HW75, Jul21, Lim90a, Lon90]. **Equalities** [AC78, BCI13, MS74, FLT20, KT19, MC80, Tia01, Tia05b, Tia11c, Tia21]. **Equality** [CGW14, Hia94, CL85, DSD83, Din98, HS89, HS91, JN90a, LW11b, LW10, MC83, Oku93, WY21]. **Equation** [AP74, Che93a, HE20, Tia03, AGR91, Bak84, BGdH92, BB19c, BCT23, Che93b, CK84, CIDK07, Dat80, DS23a, De 13, DWL13, DWL14, FOT23, FS19, GPM98, Haj18, Has18, HW13, Igl99, dJfLlZ$^+$21, JZ22, LRR87, LM22, Lei83, LZ19a, LQ95, LT10, LR89, MK16, Ned98, NF19, PLPC19, Roh04, Sal14, SLH20, SWL13, SPK15, Vei83a, WXD21, WHL22, Wil83, YL11,

YLW15, YZL17, YTL20, YCZ21, Zha16b, ZL21, ZWLZ22, ZLZ+22, ZZL23].
Equations
[DH03, Fla74a, Pas16, BHY22, BBP78, BS17d, BC06, BZZ11, BSS12, Cam83, CL80, CW17, CCL10, CKXX23, CIRW21, DH86, DTSI15, DH11, DM22c, DMT21, Din00, DLL19, DBG18, EÖ15, ESH23, Esh22a, FHW16, FNW18, FN14, Fin92, Gra80, Har94, HKT15, HW14, HW15, HSX16, He21, Hla17, HBP18, HM18, HM20, HFSZ22, HM22, JvdD91, JSY14, KP11, KM17, KL22, KN81, Kyr21, fLLL+17, LD19, lLZjZ19, Lip96, LB21, Lon76, Mag83, MWC22, Mil22, NS99, New80b, Pen15, PM78, Roh91a, Rom22a, SLUG04, Son14, SK15a, SK15b, ST97b, Tia00, Wal75a, WH12, WZH13a, WZH13b, WX19, WLZ22, XJS20, XSL15, XW22c, YqS16, YW16, YZL22, Zha04c, ZQZ21, lWY19, BC06].
Equiangular [CDK20]. **equienergetic** [LS09, PV23]. **equioriented** [Sch22].
equiponderant [Pif87]. **Equitable**
[YZB22, Aln11, AC13, Aln15, Ati20, LHF22]. **Equivalence**
[Gol87, HWZ18b, MH20, New79, Zha01b, Ari16, BB20, CH87, DMV18, Der18, Drn13, EOvdD09a, EOvdD09b, Gow80, Grü76, HWZ18a, HW08, Hou09, New78, Oge94, PR20, Pet00, Ano22a]. **equivalences** [AKR23].
Equivalent [AXH15, FA19, Bru79a, Hou09, LST23, Vei83b]. **erasures**
[Ano16c, DS23b, Ous15b]. **Erdo** [LN16]. **Erdos** [GX17b, Woo22]. **Ergodic**
[MSS13, HWX22, Har84b]. **ergodicity** [MH22, Sen83]. **Ernst** [Vei83a].
Erratum [Ano79b, Ano16b, Ano16c, Ano19, Ano22c, JZ95]. **Error**
[Hav88, Wan22a, CKL+21, GLL18, Guo20, MS16b, Ned98, SC21, SWL13, UZ16, UB22, WS18]. **errors** [AM13, CLW15, MHM22]. **Essential**
[BHC16, JKD16, JKZ20, JLL07, XS18, ABJ16, BC20, JR94, LT22b, Pep19a].
Essentially [Joh73, Joh74a, Joh81b, NST91]. **establish** [Tia18]. **estimable**
[YC19]. **Estimate** [Gil93, Bou06, Con77]. **Estimates**
[Fri93, GHK16, LLW+11, MFPSS12, Tom22, AP17, CPLH17, Luo19, OM21].
estimating [CPKK22]. **estimation** [BLX18, LSX19, Mel22, SLW21, UB22].
estimations [FSWX22, WWW20, ZFSX17]. **Estrada** [Sha15, ZZZ23].
Euclidean [AW07, AGR91, BBG22a, Gil16, GT11, GJ22, Gow22, JJK95, ST15, TWK22, TJG22, TG09, Zen22, dlP20]. **Euler** [Prz92, TD14, Tal17].
Eulerian [Gar79, TB01]. **evaluated** [Mes13]. **evaluating** [Cal95a, TX13].
even [AM13, CQW16, CCLN16, HH14, Jin17, JKB17, SA14]. **Eventual**
[YHCW14]. **Every** [Slo17, Vas86, Sło18a]. **everywhere** [CS19]. **Evolution**
[EL21, JL22, Pan19, Pan20, CMR20, CMR21, CGOT13, FTGSNV22, NR23, ORT15, Pan22, QM21, RC22]. **Exact**
[FP17, HH22b, FHW16, HSX16, HLY22, Hua01, MO93, Tia18, XSL15].
exactly [Esc93, HW75]. **Examples** [Wes90, JO23, KCBR87]. **exceed**
[BPW16, Sta10]. **exceeding** [LZ15b]. **exceptional** [RW22]. **excess** [DFK19].
exchange [Pre22]. **Exclusion** [SL19a]. **Existence** [DHS95, Her83, AE10, CC22b, Fow80, LRR87, Mag22, MHA17, Nas74, Roh91a, Tie16]. **expanding**
[Che95b, EM15]. **expansion** [CRY95, Hon91, Krä87, MZ22, TSYB82].
expansions [CKXX23, MNS22, RW96, Wil87]. **expectations** [BG16].
Expected [GLLM21, HL18]. **experiments** [Con90]. **Explicit**

[BP18, CLX22, CICX09, DM19, Elo18, Mar20, Rom22a, CJL22, XHL23]. **explicitly** [KS16]. **Exploiting** [HWSH13]. **exponent** [HJP17, HL10, LM95, Liu92]. **Exponential** [MB22b, SW81, BV16b, Bel83, Chu84a, Dra21a, How83, Mar84, Tho86b]. **exponentials** [Cam78, ST91, ST00]. **Exponents** [JKKC22, SGS05, SG09a, LB99, SG09b]. **exposé** [Gar73]. **exposed** [HK16a, Mar13, YH05]. **exposition** [Mar89]. **expressible** [Pat83]. **Expressing** [GG22a]. **Expression** [DLW18, Tia11b]. **Expressions** [BL13, Wei98, FP17, Tia10]. **Extended** [GRMA13, BHY22, De 75, GHL16, HZG14, Mar78, Mas10, SRS21, WMFW21]. **Extendible** [BS07]. **Extending** [Cir16, Hon19, Sol00, ySpW22]. **Extension** [Hua90, LS16, Lei83, LLW07, PM22, Pat81, ySpWQ21, SL17, BG23a, BR01, BD13b, Far94, Fie73, FH89, GJR97, HH22b, HS75, Hou17, dHS23, Kua18, LZ17b, LZ12, LZ13, Mil15, Ng22, Pop20a, ZZY16, Zha15b, dC13]. **Extensions** [All14, Atk91, Dji16, Gar75a, Hal86, JKL22, LL14b, SPS15, AKK$^+$23, BWLL12, BM19a, BG83, BCS18, CKKK22a, CR18, DPR22, EL90, Epk89b, Epk89a, Far93a, Hon22, Hua09, KKL21, MV75, MCIM21, Mit92, MP13b, SST22, Suc22, TT12, Wer84, Wes96, ZL15, ZN18]. **Exterior** [Tam98, AGR91, Bah22, Coa99, Gre99, GV87, Jac79, Lim77]. **Extermal** [SM94, Lei95a]. **extrema** [For87, KKR12]. **Extremal** [APEPPS23, BP98b, CJ97, CH12, FF21, Grz89, GLS13, Hil18, KN00, Tia11b, ZL22, AO78, BSG$^+$12, BK87, CSCH01, Fla75, Li85, RW22, SWH22, WYSL22, ZXL22]. **Extremals** [YH05]. **Extreme** [Pat03b, Tho75a, CCW20, Kan87, LKLC22, MPD22]. **eztensions** [ELG88].

F [Ano16b]. **Faà** [Wen06]. **Faber** [ZZZ12]. **Face** [SHC02, Bru85]. **Faces** [Bar78, Zha20b, DH91, FS86, Hwa85, YH05]. **Facial** [So90]. **factor** [Ami11, HZXL15, JQS13, JQ15, Joh22, LT14, LJ11, Liu16a, Mol09, NZK21, WJ16, YZ20, Zha16a]. **factorial** [Tan20b]. **factoriality** [MM05]. **factorials** [TX13]. **Factoring** [Eba92, JS96]. **factorised** [ZWZ23]. **Factorization** [ADRP14, BT22b, Bot94, DKS09, Erd22, GLR82, JT03, KML95, KLZ96, Pop20a, Roo20, Vin04, Adu15, BG86, Bot96, Che07, Gal01, HZ12, JC22b, KT19, LYS15, LL17, LLC21, LZ22, MZ04, MR12, Neu81, Pop22, Rem90, Sou86, Sou92, Ter22a, Tia11c, Wim88]. **Factorizations** [Gal03, cc85, CZZH22, CZ22, Joh81b, LR96, MR97, RR91, SM22a, Wal79b]. **Factors** [Ger74, Aze99, Fow80, HS85, HS87, Liu18a, Liu19, MZ04, NT86, Sil88b, Tho87a, Zab89, Zab90, ZYL13]. **faithful** [CR15, Man17, WL16b]. **Faithfully** [RD12]. **Families** [Vei82b, AAS14, BD14, CHFC19, CM15, HH85, KSU22, MR17, Mer97, Mou20, Vei83b]. **Family** [KMS02, KS16, Kan87, KMEO12, Nom73, TNJ22]. **fan** [Adk95, HLZ22, LH21a, Smi94, Gro17, JLL88, MP94, MP95, Mos12]. **fan-pall** [Adk95]. **Farka** [Bar07, Bar12]. **Farkas** [XLL15]. **Farkas-type** [XLL15]. **Fast** [DM22c, Uhl20, XJW17]. **Faster** [Uhl14]. **Fastest** [AS11b]. **Feedback** [BZ99, BFZ07, BCdHP10, DHKS16]. **feedbacks** [HRT15].

Fenessey [MM23]. **few** [DFK19, MTR19, TDL18]. **Fibonacci** [BB19c, DH17, EB17, KI16, Ogu20, Sla16, TD16, TD19, dF11]. **fibre** [TZ21]. **fibres** [MT11]. **fidelity** [ZBW16]. **Fiedler** [BD14, CGMR11, Kua18]. **Fiedler-like** [BD14]. **Field** [Ric81, AKK+23, Ber05, Bra86, CJK+13, DB14b, Ell93, Fri90a, Ful76, Gib76, dHS23, Joh75b, JST18, KK90, Kyr11, LLC22, Mau78, Mee80, MN13, New93, NJP19, Ota13, dSP16a, PM81, PM85, RC22, SMS15, Uhl79, Uhl14, Uhl20, Wes96]. **Fields** [XCC99, Adk95, BM22b, Ben74, BB75, BM12, BD13a, BZZ10, CC17b, DP09, DJS21, Epk89b, Epk89a, Far17, Far20, GWZ14, GWZ16, Hai88b, Haw05, HZS22, KC16, Moh16b, MP13b, Nor95, Nor08, SCL+22, Sta14, Sta15b, Wat89]. **fifth** [Gar21]. **figures** [Pok87]. **Filbert** [KA19]. **Filiform** [CCGO11, ARH15, ACO21, BS18a, CKKK22a, CLOK13, KKL20, KKL21, KLO14, LBV13, RH11a, RH11b]. **Fill** [Dji16]. **fillings** [AW13]. **Fillmore** [Tan20b]. **filters** [Chu84b, Pat17]. **finally** [Uhl13]. **find** [FTA20]. **Finding** [CDG23, Vo83b, HKT15, Sol14]. **Fine** [MG22, RE22, PS20]. **finest** [Uhl79]. **Finitary** [DS02b, DW16, BFJ12, BFK18, Khr16]. **Finite** [BR04, Che95a, Dre93, Hua22a, KLS08, LM03, Tau74, Adu15, AL21, AFW22, AMZ13, AAUN22, BM22b, BRL22, BG16, BM12, Bra86, BD13a, CCS16, CC17b, Car88, CDJ13, CP15, CW11b, CZY12, CX12, CG19, CR22b, Das17, DH20, ĐL92, Đok93, DJS21, Ell93, ES76b, Fal97, Far20, FTA20, Ful76, GG22a, GA85, Gol79, Gol07, GWZ14, GWZ16, GX17b, Hol04, IOMAN21, JC22a, JW22, KC16, Kes83, KK90, KL15, Lew77, Liu16a, LW23, LLLY23, Mat90, MGA17, MN13, Mir09, New80b, Nir11, Pab22, Pas15, dSPdS22, PA94, PM81, PM85, RA21, RŠ08a, RŠ09, RC18, Rom19, Rom20, Rom21, Rom22a, Sel81, SM19, SZ19, Tan18c, Tho92c, Wal79a, Wat89, WW20b, YF18, Yan21]. **Finite-dimensional** [Hua22a, AAUN22, CDJ13, CW11b, CX12, Das17, Gol07, KL15, Nir11, Pas15, Tan18c]. **finitely** [BS15b, Ber05, HMO11, Hua96, TLC16]. **finiteness** [FSvW11, PRA22]. **Finsler** [RQ22]. **First** [RP90, AEAAES20, BC06, CNW21, HWX22, KN00, Vo83c, Vol22]. **first-order** [CNW21]. **Fischer** [BJ93, Dru14, DL14, ES76a, HB83, MHH96, Mar76]. **Fischer-type** [Dru14]. **Fishkind** [Dji16]. **five** [HM76, HM78, MO91, Vol22]. **Fixed** [ZX16, Ach77, BOvdD91, BDK+05, COK22, Cha84a, CDK22, DM87, GL11, HKv23, Hon92, JP07, KS17a, LP07, LT93, LS22b, TH14, TJ11, Tia17, Wes87, YWZ21]. **fixed-points** [Hon92]. **Fixing** [OWTZ21]. **Flag** [HLZ02, Mil15]. **flagged** [Chu90]. **Flanders** [GJR97]. **Flat** [CN08, ERS12, Pat84]. **flows** [Lee98, LT13]. **Focal** [GS19]. **Fonseca** [KAE22]. **force** [CN14]. **forcing** [WWZ20]. **Foregger** [Cha84b]. **forests** [Muk20]. **Form** [Afr73, New94, Arm17, BK17, Bed11, BCT23, BG82, Cha96, CFP21, Der83, Ger82, GRMA13, HS83c, HWZ18a, HH85, HZH20, Ikr15b, IH11, INO15, IK20, IK22, KH05, KPPR21, LV18, LMR94a, LCH22, LLC22, Mau78, Nak95, NSW21, Nor95, PS91, Pro95, Shr90, Uhl79, Vei83a]. **formal** [BC06, CQH15, Dre22, MPI17, Reg89, Rys75]. **formally** [Adk95, BB75].

format [Sta15b]. **formation** [LH22, dC15, dC18]. **forme** [Rev81]. **formelles** [BC06]. **forms** [AY93, Bae84, BT90, Bed10, BX11, BS13, Bus23, CCU21, Chi78, CO12, Dra17a, Epk89b, Epk89a, Fei75, Fow80, Ful76, Gal79, GP14, GQ06, HL09, Hor04, HS09, HLYZ22, IKR12, KN81, Lee18, Lew96, Lew97, Mar97, MN13, MP13b, O'R15, Per17, Pie74, Raï19, Rob77b, RB22, Sin93, Sol80, SPM14, Sta14, Sta15b, Sun20, Tau81, TS05, Ven19a, Wag87, Wil93]. **formula** [AH16b, Bed11, BG90, Cal91, Cla82, CD15, Dji16, Ebe80, FZ11, GR93a, GK18, HLZ22, IW95, KMMS22, Krä87, Lei83, Mit10, Mos15, NST89, SC20, SvW14, Tho86b, Vel21, Wen06, ZZ23, Zha21]. **formulae** [BJ94, BT11, HS83c, Rem82, Van95]. **Formulas** [Bus23, AYC93, Bay22, BSA17, GRMA13, Mar20, Rom82, SQH15, ySpW14, Tia18, YZB22]. **Formulation** [CN04]. **forward** [ZZT23]. **forward-backward-half** [ZZT23]. **Four** [Kom10, BTT20, Bre18, Edw78, Gra87, HWZ18a, HLW+21, Tal17, ZMG20]. **four-dimensional** [Edw78, Tal17]. **Four-term** [Kom10]. **Fourier** [Đok93, DL22, ĐL92, Elo18, KW89]. **Fourth** [KMS02, MWC22, jAS15, jAS21, GM87a]. **Fourth-order** [MWC22, jAS15, jAS21]. **Fraction** [BL21, LB19, TSYB82]. **Fraction-free** [BL21, LB19]. **Fractional** [GW21, LLGX22, XZS19, Bal22a, HFSZ22, MM20a, Rei77, ZQZ21]. **fractions** [CM85, CR22b]. **Frame** [AN18a, Far17, GC22, KL13, MAT22, SA17, Xia20]. **Frames** [AB17, Ano16c, AB19, BCNG23, CC23a, CDK20, DO19, DS23b, FD14, FM21, Far22, FZ21, GNO20, GLL21, HLY22, JW22, KLS08, LLHS18, LL20, LH22, MO22, Ous15b, OS18, SA21]. **framework** [Mej19]. **Frattini** [GLOT13]. **Fredholm** [Amm18, Bal23, BBBS09, GCSC20, MŠ09, MO13, Yu14]. **Free** [Alp95, MCIM21, AAKS21, BdP21, BL21, Bre18, CZ21, DMV18, Dre93, DZ22, Egg95, GB77, Gho19, LLMN20, LB19, PA94, SLH20, ySpWQ21, Sla16, Sur98, TW19]. **freedom** [HS93c]. **freely** [Sch79]. **French** [BC06, Del94, MM92]. **Friedland** [KKS21]. **friendly** [Koh11]. **friendship** [SS23]. **Frobenius** [BOvdD95, BGLS07, Bla77, BDD23, BS22d, Fie73, Gil17, GS83, Gut01, HL84, MHH96, Mit10, Nag17, SPS15, Wan79, Zha21, Zou12]. **Fuglede** [Ras17]. **Full** [AB19, CJW19, Har91, MO22, Mum86a, AEdF13a, AEdF13b, DMQV23, Laf84, MSS18, Rub20, Wan17a, ZWM17b, dFSY22]. **full-rank** [Rub20]. **Full-spark** [MO22]. **Fully** [Har87, HL10, Liu92]. **function** [AEAAES20, AFM13, BB22, BH16, Bou14a, Bou14b, CRY95, CMM20, Cha92, Cha93a, Da 88, EDKA07, Erd22, FD14, Gam18, GP14, GP74, HSM17, HFS15, Hos22, How80, Jam81, JS20, Kap77, KN04, KKS22, KK16, Lei95b, Lim00, LCL22, Lon73, MMS21, Miy22, Pam87, Per17, RW84, Sal14, SMM14, SMM16, SK15a, Tia17, Vei82c, Wan79, WZD16]. **function-induced** [Da 88]. **function-valued** [FD14]. **Functional** [AS20b, CD22, Ere15, Lee16, Nie14, REG07, Wan19b, AGR91, Cro08, KD16, Maj22, Pep11, TB01]. **Functionally** [Fre76]. **functionals** [Lee15, MR75, Pap13]. **Functions** [AMP02, Hon99, Pie85, Tam02, Tur02,

You80, Abd20, ABAH23, AHK19, Anj17, AA12, BHY22, BT13, Bal79a, BCN05, BC82, Bea83a, Bea83b, Bea84, BC85, BD85, BMFPBSS21, BL93b, Bra86, BHH86, CSG22, CH12, Che91, CP10, DV18, ÐLR91, Dra10, Dra11, Dra16, Dra22a, DS18, DS19b, Fan83, FS83, For87, Fri81, Fri90a, FM22c, Gam00, GR23, GP22a, GR81, Gha21, Gib87, Gil93, Gil12, Gol89, Gol90, HHSY22, Hau12, HBI73, HWL92, HOT15, Hof75, HF18, HX21, dHS23, HH14, HLPW17, HLP23, IK22, JK22, JMS19, Joh75a, KJF23, KD16, KH05, KKR12, LR96, Li87b, LT90a, LT92b, Lim10, LM19, Lla96, LC83, MS10a, Mat90, Mer74, Mer79a, Mer82, Mer83a, MWLW22, Min76, MRS10, MB22b, NY23, Nie22b, OU22, PSMA16, Pat83, Pat93, Pat03b, Pat17]. **functions** [Pie92c, RR91, RW22, Rem90, RW96, Sal12, Sat11, SW81, SK15b, TN22, TLC16, TG23, Tik98, Tre85, Tre86, VY21, Wat77, ZW19, dCdSA22]. **functors** [JN22]. **Fundamental** [Mac09, Far90, Mag22, Rod22]. **Further** [ARK22, ASR22, BHK78, BM17a, Boa19, CZWF23, DW12a, DIF13, GHL10, How83, MRT14, Mis17, WC15, YK22, YWZ21, ZCP16, JLL11, Zha15b]. **Furuta** [Dra13a, FJK98]. **fusion** [SA17]. **future** [Abd20].

G. [BMD87, TT78]. **Gabor** [GKO22]. **Gaddum** [Das21]. **Gaddum-type** [Das21]. **gain** [HHY22, LY22c, LY22b, MKS22, WL23, ZH22]. **Galilean** [CSY18, TZ19b]. **Galilei** [aCC17]. **Galois** [Ota13]. **Gamma** [SAK22, ABAH23, Miy22, Sal12, UB22]. **gammoids** [Mum86a]. **Gaps** [YMYS13]. **gauge** [CFZ23, Che91, ÐLR91]. **Gauss** [Sal14, SX22]. **Gaussian** [BJ94, CP16, DMV18, Ter22b]. **Gaussian/Bernoulli** [CP16]. **gcd** [PB17, TM19, Zha14b, AST05, HINS10, Hau12, Li92, Tan10, TLL11, XL11, Zha14b]. **gcd-closed** [Zha14b, Li92]. **gcd-graphs** [PB17, TM19]. **GDMP** [HLT22]. **GDMP-inverses** [HLT22]. **Gelfand** [BCZ22, Cen11, HT10, ZCY22]. **Gelfand-Kirillov** [BCZ22]. **General** [CHK00, HSX16, NP80, Uhl99, XSL15, XHL23, BO22b, CT21, Che93b, CW12, CPT15, CP21, DK23, HW15, HWL21, HLB22, Hun83, Hun86, KH05, LXQ21, LCL13, LLW07, MT22a, Pan13, Pen15, Pie92b, Pre22, SMM16, SLH20, SMM22, TJ21, WL16a, Wat89, Wri22b, Xu22, Zha04c]. **Generalised** [Fri75, FNBR96, HK80]. **Generalization** [Đok17, Mou13, BM07, CGMR11, CC92, DMV18, Fie84, Hey92, HZ12, Kan87, KS14a, KPS19, KA19, Kov86, KAE22, MP94, MP95, Rub20, SN22b, TR21, dC13]. **Generalizations** [BC80, Dra13a, Gut22, MR10, Sha20, Sla16, CDK20, Dat16, DN18, FS83, Fri78, GS83, Liv94, Lu22, MP90, Wu22]. **Generalized** [BBG22a, BGK99, Bea83a, Bea83b, Bea84, BLdPS04, BdPNdP17, BS22c, Bou18, BCCL22, CM84, Cha96, CLX03, CL05, Cve18, DD15, DP18, Esh17, Far20, FMXZ22, JP15b, KP16, KL12, LW11a, LPS12, LCL14, LL18, MJ07, MW23, MP13a, Mer79a, Mer83a, MM23, PSA14, PUÖ15, Pet00, RS18, Rao81, Sin84a, SM19, Siv06a, SPK15, Tam02, Til77, Wer86, YZZ20, Zar01, ZZC17, AAB17, AADD18, AYT83, AYC93, AyT84, AKY21, BOvdD95, BI95, BF05, Bar80, BCDF09, BHK78, Bay22, BD22a, BC82, BC85, BM17a, BT06, BL13, BG21, Bo01, BT22b, BC94, CC17a, Cha92, Cha93a, CC14, CCC21,

Che95a, CKN95, CW11a, CD21, CHZ22, CFZ23, Che17, Chi98, Chi78, CIN15, CIM19, DPvW13, DS23a, DeV22, Dec74, DH11, DTS14, DDA20, DCIW10, DLD22, DMS23, Dra13b]. **generalized**
[Dra17b, Dra23, ESAJ18, EAM19, FT87, FS22, FZ17, FJK22, FN14, FLT20, Fie90b, Fri82a, Fur11, GB22, GS06, GZZF23, GPM98, GH23, Gog21, GB90, HNB22, Haj18, HK79, HJP17, HBI73, HKO16, HBM15, HT91a, HLPW17, HM20, Hug90, Jon92, JNBR93, KM19, KS15, KM14, KI16, KS14b, Kay17, KW17, KR14, KPPR21, KD23, Kyr08, Lei92, Lei93a, Lei95b, Lei95a, LCL13, LTT84, LMR94a, Li96, LLS10, LB11, LPT11, LWXF15, LZ19b, LW11b, LWB11a, LL11, Liu17, LPW17, Liu22a, Man87, MKS84b, MR15, MŠ09, MS18, MM20a, MM20b, MHM22, Mer74, Mer82, Mia93b, MS12, MMS21, MMG15, Mol18, MAT22, Mos15, Mos20, Mos21b, Mou04, Mum86b, Nab98, Nas75, ND13, NT86, NSW21, NF19, Pat03b, Pat08, PS20, Pep19a, PT10, PGAB22, Poo80b, Rad16, RŠ09, Rom20, Roo20, RS08b]. **generalized**
[SMM16, SES21, SM20, SC20, Slo17, Sło18a, Smi74, SCL$^+$22, SY23, Tam86, yT86, TX13, TT06, Tia10, Tia18, Tia21, TCI13, Tsi81, TRM22, UPÖ16, WC15, Wan22a, Wil81, Wim88, XCB18, YLS10, YZ13, YBCW96, YW05, YW09, ZZ16, Zha20a, ZZL23, Zhu18]. **generalizing** [KS16]. **generate**
[BT17]. **generated** [Ber05, CKKK22b, GPK94, KM19, KCBR87, KLS08, Law19, MP87a, RS07, Sch79, Tre85, Tre86, Tre87, Wad90, Zen22].
Generating
[New85a, BdPNdP17, CSG22, Lew77, LM19, Lop11a, RW84, Spi76].
generation [Dre93]. **generator** [BTV07, CFSRL22, FTA20, GC22, Mah82].
Generators
[TW17, Aln11, Chi22, Gai77, GC22, Lop18, NTW23, SL15, Wat89]. **Generic**
[Wil87, BFZ07, FW86, For79d, Lei83, MMRR16, PS91, dTS20]. **genericity**
[BGLSSS20]. **genetic** [Pan17]. **Genus** [BS20, Ger82]. **Geodesic**
[CGNT15, RBB22]. **geodesically** [KJF23]. **Geometric**
[CKS20, CF15, Sei95, ZZ00, AG22, ASR22, Dra18a, EJD88, EB17, FSY16, FS18b, GHT11, JK10, JKL22, JST18, Lim23, LS17, Pep19a, Pep19b, ST94, Sch22, Smi74, SY23, XZ22]. **Geometrical**
[BD94, Pan15, CL94, MM06, SCL$^+$22]. **geometries** [Kes83, RQ22].
Geometry
[CGHK08, HW06, GL16, Jam88, Lei93c, LWC22, NP91, NF19, Wit11].
German [SU77]. **Geronimus** [GAGM18]. **Gerschgorin** [AB78]. **Gersgorin**
[EV77, LLL15]. **Gersgorin-type** [LLL15]. **GIBS** [DK23]. **girth**
[LDL17, LOO22]. **give** [Kap77]. **given** [BS21, BJS98, CH22a, CFLL23, CJL22, DJ89b, FTZ08, Far22, FLZ07, GWW20, GJMW86, GZY18, HZG14, HLZ05, JST18, KS19a, KK90, LT12a, LC14, LWL21, LY22d, LOO22, Moo76, SM94, SYZL17, Slo14a, SKLS20, SKLS21, WH11, WWWT22, Wu09, XSW21, XSW22, XW19, YS23, ZXL22, ZL22]. **glimpse** [MGH19]. **Global**
[BVW84, CDF21, DK14, Mil15]. **GLT** [BG23a]. **Gluing** [CTY20]. **GM**
[Bak16]. **GMRES** [Doo16]. **Goldberg** [MS82b]. **Golden** [Hia94, TWK22].
Goldman [Bla77]. **good** [BDV19, Hal91, La 19, WC22a]. **Gordon** [Mer79b].

Gorenstein [GTLN18]. **Graded** [Din15b, NT22, ACO21, BS18a, CCGO11, Cen11, CdM15, CdSS17, Egg95, GMV18, dSPdS22, RZ17, dNV19]. **Gradient** [LT13]. **gradients** [CG17, Nie22b]. **gradings** [BDV19, FGK23, RE22]. **grafting** [LLF08, ZLS11]. **gram** [Pat82]. **grand** [BS22a]. **Graph** [Con90, HZ20, Mer94, AN18a, AA21b, AN14, AFTG19, AADdF23, ABGP21, AM85, ACMR17, Ano79b, AH16a, AAA22, Ari16, AT18, Ash16, BC05, BP98a, BKP01, BS11, BR14, BS20, BHH$^+$11, CT16, CHL18, Cla92, CTY20, CP10, CD85, CR90, Cve95, Da 05, DFK19, Das04, Das17, Das18, Das21, DM22a, DeV22, DIJ23, Dua22, Fan05, FF21, Gon17, Guo07, GZ22a, Guz88, HZ11, HLZ22, HHY22, HM23, HJ77, HS16, HUZ17, HZ21, JS22, JWBB22, JKS79, JD99, JS08, JST18, Kir00, Kir14, KMMS22, Koo95, KL92, LZ15a, LV18, LP00, LLF08, LZX19, LY22b, LPWX10, LXG17, LZB23, MW16, MW18, MF20a, MH22, MT22b, MKS22, Mer95, Mer98b, Mir23, MA15c, Mum86b, OWTZ21, PLH01, PLLL20, PRS03, PGAB22, QX23, RA21, Ric78, Sar20, SMM14, SMM16, SS22, So99, SL95, zSqSZ16, Ter01]. **graph** [Ter06, Ter09, Tho90, TW17, TLC22, TJ21, UZ16, Wan16a, Wan19a, WWZ20, Wan21, Wat90, WL20b, WLM21, WL23, XWT22, XZS19, YWZ21, ZH22, ZWL15, ZWM17a, ZWM17b, ZWS20, Zhu15, LPS21]. **graphic** [Kas85]. **Graphs** [AL22, ASZ02, FKP03, HS95, HLP03, KP02, LS09, LZ15b, LW22b, MSZ04, Moh16a, RP90, TB92, Yiz02, Yiz03, tHK17, AAT17, AHJ20, AHJ21, AGM13, ADHM19, AGS20, AAGL22, AGH$^+$22, AMK23, AAKS21, AADdF23, ABP22, AAB20, AL21, AFW22, AAdFS19, ACMR17, Ano16b, APEPPS23, Are22, Are23, AOTR11, BBG22b, BBG22c, BGK99, BLP12, BP19, Bar08, BGM22, BCLS23, BCDF09, BS22b, Bel15, BPS16, BPW16, BB19b, BBCD21, BVW84, BCEM12, BZ00, BSA17, Bru82, BS93, BSG$^+$12, BH20, But10b, CMR20, CMR21, CF21, CP15, CL17c, Che18, CHQ18, CZ21, CH22a, Che22b, CFLL23, CFL$^+$22b, CFL22a, CKM18, CKMY22, CKKY23, CDG23, CG16, CSCH01, DFK19, DFPS23, DP17, DAH19, DGR08, DIF13, DWL20, DZ22, DJS21, EL21, FTZ08, FDD14, FGHL22, FS14, FS18a, FKS22, FYIS13, FdF09, Fer10a, Fie90b]. **graphs** [FG06, Fri93, FHT14, GN20, GL11, GWW20, Gho19, Gol06, Gol16, Gol21, GH22, GM90, Gro95, GWZ14, GWZ16, GB11, GLS16, GZY18, GLLM21, GZ22b, HRMP95, Hou01, HW08, HLW$^+$21, HHW15, HL18, HLB22, HL22, HZ03, JC22a, JLS09, JKKC22, KS19a, KS22a, KS23, KP22, KT95, KK19, KOSS23, KF98, KMN01, KADM10, KS17a, LV18, Law19, Lee98, LZ11b, LT11, LLP18, LY22c, LS22b, LP23, LS12, LS13, LLD17, LXS21, LL10b, LZ14a, LZ14b, LDL17, LLF18, LLGX22, LOO22, LH23, LW23, LCG$^+$23, Lor00, LHH18, LHF22, Lu22, LCXC22, LCWW22, MW15, MH16, MGKA23, Maj22, MS16a, MW23, MGA17, Mer97, MS10c, MTR11, MN04, Mol18, MR19, Mou20, NS15, NS09, Nat13, NP15, NC22, NP09, NG15, Obo16, Obo22, Ost74, PB17, Pal21, PP16, Pan17, PGLM00, PRAC22, PSB23, PV23, Pow88, QM21]. **graphs** [RP22, Ram22, RM22, RC22, RAN22, REG07, RY93, Sat11, SS79, Sch95, SdF12, SS23, Sei95, Sha15, SHS17, Shr90, Sim95, SS07, SRD19, SR22, SM19,

Sjo93, Sri20, Sta10, Sta20, Sta22, Ste94a, Ste94b, Ste05, SD20, Tan12, TM19, TWZ16, TW19, VH95, Vo83a, Vo83b, Vo83c, WH11, WZ13, WBZ14, WW15, WT16, WM17, WWS19, WMFW21, WC22a, WY20, WYSL22, Wil93, Wu05, WL18b, XZL14, XYH22, XZW22, XLS20, YW19, YLW22, YZB22, YHS13, YGW15, YSZW22, YS23, ZLS11, ZXL22, ZQC18, ZG11, ZZZ12, ZZ15, ZY17, ZZZ23, ZLZ20, ZG08, ZB13, ZW17a, ZW17b, ZD18, ZZ21, dLMO17, dlP09]. **Grassmann** [Car88, Car90, Cha79b, DK11, De 08, Die79, Din15b, FGK23, GP15, Gor83, Wan82, Wes74, dB10]. **Grassmann-embeddings** [De 08]. **Grassmannian** [LCH22, MR75, PT10]. **Grassmannians** [Pas16]. **gray** [CW93]. **greater** [Ano16b, BPS16, PGLM00]. **Greatest** [Bar80]. **Green** [CMM20, Put82a]. **Gribov** [CDJ13]. **grids** [BG23a]. **Griffin** [Ric87a, Ric85]. **Griggs** [Har84a]. **Grothendieck** [PSS15]. **Group** [BT98, CKN95, DS02b, Pat96, SQM99, yT00, ZBW12, Abd09, AF12, AP23, Ano16c, BB06, BAN12, BT06, BLZ10, BLZ11, BSÜÖ13, BH15a, Bot79, BZZ10, Cha90a, CCS98, CNW18, CHZ22, CZZH22, CFL22a, Chu84a, CW93, DP00, Ell93, Ell95, ES76b, Fal97, Far90, FJK14, FHZ17, FP17, Fri85, GA85, GMV18, HNB22, HP18, HK13, Hun83, Hun86, JGK79, KW92, Lew77, Lip87, LWY11, LWB11b, MW16, MN80, Mah82, Mal92, Mar84, MT11, MP16a, Mol18, MS15b, MS16b, Ng22, Odo83, Ous15b, OS18, Pat89, PS21, Put82b, PH97, QX23, Rai87, RP04, Sch75, Sch78, Shc21, SX12, TW17, Wan80, WZL13, Wan16a, XWT22, Yam18, YQ90, ZWM17a, ZCZT22]. **groupoids** [RD12]. **Groups** [Gur97, KMEO12, LM03, AF11b, Adu15, AL21, AFW22, AKK$^+$23, Are23, Ber05, Bri89, BS07, CF21, Cha77, Cha79a, CL86a, CL86b, CP15, CFL$^+$22b, Den05, Đok81, Don91, Dre93, Fon92, Fri97, GL16, GT79, GL97, HNB22, HT92, Hol04, HS17, HW75, JC22a, Kim91, Koh11, Kra05, Kra06, LLT93, LW23, LCXC22, LCWW22, Mah82, Mal95, MO22, MC80, Mar00, MZ17, MGA17, Ner22, NP73, Nie22a, Ota13, Pan13, Pat82, dSPdS22, Pre22, RA21, Rei75, RE22, RC18, Sla16, Slo13b, Sta23, Tam97, Til77, Vin06, Wal79a, WC22a, Wat89, WW20b, Woo22, dB10]. **Grover** [KMMS22]. **growth** [CdSS17, FdSV16, GdSV16, IM18, Iop19]. **Grüss** [Ota20, DM17]. **guage** [HWL92]. **Guessab** [TR21]. **GUS** [LLV18]. **GUS-property** [LLV18]. **GW** [Hai88a, Hai88b]. **GW-rootsystems** [Hai88a, Hai88b]. **gyroscopic** [YZC21].

H [Cha84b, MP13a, Sun20, WSZL17, Wan77]. **H-tensors** [Sun20, WSZL17]. **H.** [Cha83a, For79c, Jia92, Krä87, Mal89, New83]. **Haagerup** [MW19, MW21]. **Haar** [OS18]. **Hadamard** [AHJ87, Aue98, Bap91, BG21, Boz99, CS23, Che22a, Cho18b, Cra91, Đok17, Du10, EM95, EF98, ES76a, FKR93, Fri75, GA20, GP74, GN02, GS20b, Gór22, GJMW84, GMW86, GM87a, HB83, Hey92, HJ87, Hua08, HXL16, HK17, Joh77a, Joh74b, Joh75a, Joh77b, JM85, JN90a, JN90b, JN00, KLZ10, KMS02, KLJ23, LHS$^+$21, MKS84b, MF92, Mat92, MTR19, Ota20, Pep19a, Pep19b, SAV01, SZZY18, Wal73, Wal86, WZ97, Zha00, Zha89]. **hafnians** [BFI22]. **Hahn** [DPR22, TRM22]. **Hahn-Banach** [DPR22]. **half**

[DS16, ZZT23]. **halfplane** [Rod08]. **hall** [LB99, HL10]. **Halmos** [Zha95]. **Hamburger** [ACJ17]. **Hamilton** [LN16, Paz84, Van95, XZW22, ZW17b]. **Hamilton-connected** [XZW22, ZW17b]. **Hamiltonian** [CQH15, CHQ18, GN20, GZY18, LP23, Mer83b, NG15, Nof15, NF19, RY93, SHC22, WC12, ZW17a]. **hamiltonicity** [Lu22, LLP18]. **Handelman** [KNX95, KNX93]. **Hankel** [BG83, Boz99, CCLL22, Ikr15b, JTW17, KS16, Lew97, LC20, LM19, MHH96, RRC23, Sol06]. **Hankel-symmetric** [CCLL22]. **hard** [GLM$^+$22, Roh00]. **Hardy** [BS22a, CDPS23, YGÇ19]. **Harmonic** [KK19, ST94, Web83, XZ22]. **harmonious** [FXY22]. **Harnack** [CB22, LZ17b]. **Hartwig** [DD14]. **Hasse** [Bah22, Gar75a]. **Hausdorff** [BB14, BBM20, BMFPBSS21, CW11a, DST91, DTS14, NST89, TD14, Tal17]. **having** [BCEM12, BCS14, DH91, Est80, GH22, HZH20, JGK79, JS84, JOvdD84, LD19, LCXC22, MPGS21, Šem97, Wan22b]. **Hecke** [LLT93, Mit10, Zha21]. **Height** [HS89, AHK92, HS91]. **Heinz** [ASR22, Ala16, BM15b, GHT11, KM11, KK13, LS15, Man17, NS18, SYK15, Sab19, SG18]. **Heinz-type** [Sab19]. **Heisenberg** [AC19, CPS22, CHS22, LS22a, Nie22a]. **Henryk** [Mar03]. **heptadiagonal** [Lit17]. **Hereditary** [BY19, EGT16, KM98]. **Hermite** [BFZ07, CS18, Sin93]. **Hermitian** [Đok93, AM13, AAB17, AY93, AB78, AY74, BT08a, BY76, BL83, BM16, Bur11, CM92, CTW15, CK20, De 08, ĐL92, Dra17a, DNY22, Elg22, ESH23, FdF09, FH89, Gro97, GJMW86, HR85, HNS99, HW06, Hua22c, HM95, JN80, JR84, JP86, JL91, JS08, Kim91, KN81, LL16a, LP03, LW17, LS22c, Loe87, LSX19, Mas10, Mir92, NTU93, NT94, Oi20, OK07, Pat92, Pat03b, Sar20, ST73, ST91, Sta15a, Tho92b, TL12, Tis93, Tra84, WZH13a, WZH13b, WL20b, WLM21, Woe97, WL22, YLW15, YTL20, Zha04c, ZL21, Zha22, ZCLW22]. **Heron** [DDF22a]. **Herstein** [AEV12, IT16]. **Hessenberg** [KP14a, MR15, Mar20]. **Hiai** [HSW19, KMS21, Tom22]. **Hiai-type** [Tom22]. **hidden** [JDD21]. **hierarchical** [BCDF09, GLLM21]. **high** [LZB23, SWL13, WG91a]. **Higher** [AM21, CKL$^+$21, EGMS22, HWX22, BdP12, Car20, CGW14, CL17b, CLN21, CGHK08, CLMR09, DTSI15, FHL$^+$14, HLYZ22, Jon78, KP14b, Li87c, LPS09, LPS13, MC86, MP73, Mer78c, MS15b, MS16b, O'R15, Woe08, XW12, Xu18, YLX20]. **higher-dimensional** [CL17b]. **Higher-distance** [EGMS22]. **higher-order** [Xu18]. **higher-rank** [BdP12, CGW14, CGHK08]. **Highly** [DM22d, Sma17, Zha20a]. **Hilbert** [HJ19a, Alo21, Alo23, AJL22, ACMS10, AR15, AB17, AO22, AY84, BDK21, BCNG23, BHK21, BR04, CF23, CDF21, DLD21, DKM10, Dra10, Dra11, Dra16, Dra18a, DK22, FMX18, FZ21, FXY22, FMXZ22, GGGA21, GS20a, GNO20, GJR22, GBM21, GLL21, HJ19b, HJ20b, JKH20, JS15, KS16, LLHS18, LL20, MAT22, Mos19, MR10, OM21, Roo20, ST19, SA10, Son14, Tau73a, WTD22, WZ22, WZ23, Xia20, YGÇ19, ZMCN19]. **Hilbert-modules** [AB17]. **Hilbertian** [BFM20, BN22, MSS13, QHB22, RSM21, SM23]. **Hille** [JRMFMASS16, MFPSS12]. **Hirano** [CS21a]. **historical** [Pri78, TT78]. **history** [HPS83]. **Hitting** [Che18, GLLM21, HL18, ZL22, ZZ21].

Hochschild [Hou17]. **Höder** [AO97]. **Höder-type** [AO97]. **Hodge** [Sam78]. **Hoffman** [MV91]. **hold** [BR22, MS10a]. **Hölder** [Dra18a, LPW17, Mer81, Mer78a]. **holds** [MO91]. **hollow** [FJ15, Lim23]. **Holomorphic** [BGLSSS20, MRS10, TN22]. **Hom** [AC19, ABM22, CKR18, CR18, CKR21, CZ23, GZW20, SX15]. **Hom-left-symmetric** [GZW20]. **homeomorphisms** [Pan15]. **homogeneous** [BB17a, BMP10, BPR12, FGMSS19, Fri97, FM22c, HSX16, LW23, LT07, MO93, ME18b, PSW18, Rom22a, Soa08, Sun20, Vel21, XSL15]. **Homomorphisms** [DK16, Tho92c, AAB15, An18b, Ben05, BG23b, BM16, BMGMC15, EPR16a, EPR16b, HZ20, LZ11a, Lud21a, ML12, ST22, TOM88]. **homotheties** [RRR$^+$22]. **Hook** [CW81, Pat95, Hey88, JP87, Mer83b, Rem90, TOM88]. **Hopf** [Adu15, Egg95, FJK14, LW20, Lla96, MZ04, Rod22, Zhu22]. **Hori** [Vei83a]. **horizontal** [HZV23]. **Horn** [Hua23, Mas10]. **HSS** [Hua22c]. **Hua** [XXZ11, And80a, LW11b]. **Huang** [Uhl13]. **Hull** [And04, Gil12, IOMAN21, KSMB16, LT89a, Poo94, Tho75a, TI77]. **hulls** [AS11a, SA07, Tho75b, TT18]. **Hungary** [BL80]. **Hurwitz** [Ang00, AYC93, CCL10, Kri87, MGAH19]. **hybrid** [CKL$^+$21, fLLyP15]. **hyper** [BT17]. **hyper-ideals** [BT17]. **hyperbolic** [CN21, HK10, LL17, RBB22]. **hyperbolicity** [BV16a, Dra21a]. **hypercomplex** [Lei93c]. **hypercubic** [GR10]. **Hypercyclic** [Shk12]. **hyperdeterminant** [Bre12a]. **Hyperdeterminants** [Luq08, WHL16, Sun15]. **hypergeneralized** [TCI13]. **hypergeometric** [DS18, DS19b, Sal14, VY21]. **hypergraph** [SQH15, XQ16a]. **Hypergraphs** [BG79, Rod02, Rod03, BS08, CT21, GMV23, LCC17, LZL18, LGZ20, LW22a, LL22b, SSfW15, WZ18, WLF22, XW19, ZL19]. **hypergroups** [BS91, Bha93]. **hypermatrices** [Ait19, Ilm16]. **hypermatrix** [CD15]. **Hypernormal** [Mal94]. **hypersurface** [BFM22]. **Hypersurfaces** [Pat84]. **Hypertournament** [Kir91]. **hypertournaments** [KKP13]. **hypertrees** [CBZ22, LWL21, SKLS20, SKLS21]. **hyponormal** [BK21, CH10, KY17, Ras17, Ras19]. **Hyponormality** [GHL20b, GBM21, KKY22]. **Hypotheses** [Red02].

ic [Chi78]. **ID*** [LC22]. **ID*-superderivations** [LC22]. **Ideal** [GS20a, Rao81, AVVÁ18, Bou06, Dix79, DK14, MW16, RM22]. **ideal-relation** [MW16]. **ideal-triangularizability** [DK14]. **idealizations** [DW16]. **Ideals** [Vel18, AN14, Ake83, BY19, BCI13, BV92, BRL22, BJZ13, BT17, DS23a, DDA20, Đok73, KM14, LL11, LCL14, Pat89, RS85, Tow22, XWT22]. **Idempotence** [ZCZ12, TXC08]. **idempotence-preserving** [TXC08]. **Idempotency** [BT08b, Pet10, Xu15]. **Idempotent** [Bot96, CZ22, Ma15a, AS95, AJL18, AH10, BB06, BT22a, BT08b, Cat21, Fošo5a, Fur08, GLX22, GH98, Laf83, LWY11, Tia11a, Tia11c, Wri22b, You15]. **Idempotents** [ÁBvW16, Dol04, Dre22, Hou21, KR02, KR03, RR02, AF11b,

AJL14, BB20, Ben15, Bun94, CS10, CG19, FL16a, FD12, Gha12, HP90a, HP90b, HK16b, Hua96, Slo14b, TZS19, XHL23, YQ90]. **identical** [Che22a]. **Identifiability** [Bal22b, GOS22, ABC18, YLX20]. **identifiable** [AC23]. **identify** [CAP22]. **identifying** [HM19, Sun20, YZH19]. **Identities** [AAB20, AELL20, For79a, GdSV16, RZ17, BM18a, BP09, BE20, Car06, CdM15, CdSS17, CD22, Chu22, Din15b, Dom95, Düf97, Ere15, GV95, HNB22, Hon92, Hon93, KV13, Lee16, NT22, Reg87b, Reg89, Reg93, Rem88, TC04, UF22, Wan19b, Wen06, ZZ23, dC13, dC15, dC18]. **Identity** [Zha04a, Bre14, DDA20, Đok75, Fei79, Gil14, GV87, Gur83, JOTvdD94, MS85a, Mer74, Pat08, Reg87a, Ste82, Whi80, Wil81]. **Ihre** [SU77]. **II** [Ano79b, MS21b, AF11b, AS11a, Bea83b, Ben74, BKL97, CL92, Cha93a, DM14, Fan83, Fon89, Gar75a, GN20, GKLR82, GGL03, GTM14, Gur97, Hil11, HW06, HZ20, JKS79, JP86, KK75, KS07, KL92, Lim90b, Loe74, Loe93b, MM76, Mer78c, Mer98b, MP95, MAH21, NP80, Nie07, NS22, PS22, Rho90, RS10, Sch78, SGM22, Sil88a, SHC02, TLL11, Tau74, Wea83, Wes95]. **III** [AF12, Bea84, BH74, GL97, MM92, Wes74]. **image** [Lim00, Pam87]. **images** [UF22, WLB19, Wan19c]. **Imaginärteil** [SU77]. **imaginary** [CCL10, EJ91, GHK16, HHC12, SU77]. **imbedding** [Adk95]. **Immanant** [CA03, CD98, CD01, Do 96, Gro85, Ito16]. **Immanants** [Jam92, Pat90, Gam00, GMW86, GM87a, Har85, JP87, Pat95, RS10, Wat86]. **immanent** [Fer10b]. **Immant** [Hey88]. **Implicit** [JSW09, HZV23]. **Imprimitive** [MM11, FW07]. **imprimitivity** [BP92]. **improper** [Tho75b]. **Improved** [LW17, ZV19, CPLH17, GB77, Li21a, MF20a]. **improvement** [GLL18, XZW22]. **Improvements** [HLB20, BP22]. **Improving** [Dra19a, GJMW84]. **Inaccurate** [Ned98]. **incidence** [AGS20, Bap97, BL11, BFJ12, BFK18, CD21, DW16, HZ11, HM23, Khr16, Kol23, KH05, Mum86b, Rys73, Rys75, Spi04, WLF22, Yan21, ZZ15]. **including** [LL14a]. **Inclusion** [GZ76, JR93c, JR94, LS04, PT87, Das18, FMX18, LXQ21, Lei18, LST89, MW18, ZL18, Zha19, ZZT23]. **incoherent** [YGZC22]. **incomplete** [GKO22, VY21]. **Increasable** [Esh22a]. **increase** [Kuz05]. **increasing** [Cho10, Nie22b]. **Indecomposable** [LF16, BB15b, HK16a, Har87, HK16b, HL10, Liu92]. **Indefinite** [BLdPS04, BdP12, BdPN14, LZ19b, LMMR01a, LMMR01b, Rod81]. **Independence** [MW18, HHY22, LZX19, SD20, Tan18a]. **Independences** [JX13]. **independent** [Bra86, FTA20, Mer78b, Pat83]. **Indeterminates** [Rys73]. **index** [BB22, BP92, BS95, dAB17, BG16, BF15, CMM17, CM15, EDKA07, GWW20, GM18, GM21, HRT15, Jun88, Kir93, KS17a, LLT93, LS22b, LLL09, LHbL$^+$15, MC82, MM07, MM09, MQ21, Mer89, MZ23, PJ90, Raj09, RRR93, RY93, Sha15, WL18a, Ye11, YGW15, ZZZ23, dB14a]. **indices** [AEG19, BFZ07, Bo01, DF95, Dua22, LS22c, MZ04, WL23, ZH22, ZCLW22]. **Induced** [CL80, Sch95, Tik22, ABM22, BMN22, CKS19, CL85, Da 88, Gau76, HWL92, JN00, KL95, Lei93a, Lei93b, Mal95, MG22, MO94, SS23, Ste94b, Tam88, WLF22]. **Inequalites** [SH98]. **Inequalities** [Ala16, And80b, Cho18a, Cho18b, ES73, FLT22, Fur11, Haw05, HMN91, HLPW17, JK22, JL88, JSG94,

KS19b, Lee91, Lev74, Li91, MS74, Pat82, Pep19a, Pep19b, SAV01, XZ22, AC78, AR22, AAP82, ANK22, ARK22, ASR22, AkK17, AS20b, AW07, Alo21, Alo23, AHK19, AdFK15, And80a, AO97, Anj17, AA12, BM15a, BM19a, BS22a, BDK09, BDK21, BP98b, BO22a, BCK15, BKL97, BBP21, BP22, Bol12, BHK10, Bun91, CX23, CLL14, CL17a, DM17, DHHK23, DV18, DW23, DKM10, Dra10, Dra16, Dra18a, Dra21b, Dra22a, DL14, Du10, Fan92, FH15b, FH15a, FG22, FJK98, FSY16, FMS19, GA18b, Gha21, GHT11, Gur98, Gyi78, HLB20, Han17, Han19, HB83, Hia94, HSW19, Hla17, HOT15, How80, Hua08, HXL16, HZX22, JKL22, JM85, JN14b, Kan87, KM85, Kan94, KMS18].
inequalities [KMN22, KM22, Kim91, KS07, KM11, KK13, KT83, KW89, KLJ23, Lék19, LM96, LPS12, LLZ13, LH21a, LS15, Lim00, LF21, Man17, ML21b, MM22a, MOGN18, MS21a, MS21b, MFS22, Mos12, Nie07, Nie22b, Nie22c, OU22, Ota20, QHB22, Raï19, RK94, RSM21, RSM22, SYK15, Sab19, SM21, SRS21, Sed11, SG18, Sha18, Sha20, SN23, SA10, SG96, ST86, SZZY18, TJG22, Tho78, Tia05b, Tom22, Tra84, WZ97, WZ14, YK22, YLS10, YLC19b, YSK15, ZW19, ZCLW22, Zou20]. **Inequality** [Pat81, AFTG19, AMK23, Ala18, AB78, AHJ87, Aud15, BM15a, BM15b, Bak16, Bap88, Bap91, BdP21, CF23, Dia79, Dra11, Dra13a, Dra17a, Dra19a, Dra19b, Dru14, ES76a, Fri75, FL16b, FS18b, GAMA23, GJ22, GJMW84, Gro85, GM87a, Gum15, Ha88, Hey92, HKO16, HM22, HM95, JRMFMASS16, Joh77a, JN90b, Joh90, JZ95, KS14b, KMS21, Kua18, Li87b, fLLyP15, LCH22, LP22a, LW12, LZ17b, LPW17, Lon83, Lon97, Mar76, MS88, MV91, Mer94, Mia93a, MP94, MP95, MP96, MGH19, MF20b, MR10, MFPSS12, NS18, NASR19, Oku91, PSA14, Pat96, Pat09, Pep11, Rea96, SY23, TWK22, Tho89, Tik98, VM18, Wan79, Wim85, Wu22, YGÇ19, zY11, YLC19a, YqS16, Zha01b, ZZZ12, Zou20].
Inertia [GS06, GA18a, GA20, JR84, LRT91, WL23, ZCLW22, AL78, BS97, CM92, CFSGL18, Dua22, GWW20, JP86, Loe92, MF92, ZH22].
inertia-preserving [BS97]. **inertial** [ZZT23]. **Inertially** [GS01]. **Inertias** [KMOV07, JL91, KOvDD09, TL12]. **inexact** [WZY22]. **infimum** [Dji16].
Infinite
[ALPM20, DvE20b, DS02b, GK02, KK75, KMS02, ME21, WC16, AELPM18, All14, Bar07, BB14, BDH23, BH15a, Cas91, CP10, DvE20a, Esh22a, Far22, Gol16, HLZ18, JO23, KPPR21, LF15, Lim23, Liv94, LRD21, Lud21a, MDP22, Nag17, Ng14, Ng22, Pop14, Rai87, RD12, SHC22, Siv06a, Siv06b, Slo13a, Slo14b, Slo15b, Slo15a, Slo16b, Slo17, Sło18a, Sło18b, Sol06, WC12].
Infinite-dimensional [ALPM20, KK75, AELPM18, Bar07, BB14, JO23, LF15, Liv94, MDP22, SHC22, WC12]. **infinity** [DM87, HM78, MZ04].
inflations [GW98a]. **influence** [Sch77]. **Influences** [CP16]. **Information** [JS91, BL80, DMS23, DHKSH08, FHLS13, Fur11, MF20b, ShDHG08].
Inheritance [BS17e, BS18b, Pan17]. **Inner**
[BLdPS04, Tan16, Dra19a, Dra19b, FD14, HLP23, LMR94b, LMMR01a, LMMR01b, LB21, Ota20, Pat08, SN23, TZ19a, Tan13b, Uhl82]. **Input** [Har94]. **inputs** [GOS22]. **insertion** [Cas23]. **instability** [KSU22]. **integer** [BT07, BM18c, BM19b, CZ22, GA20, GRMA13, LSOvdD95]. **integers**

[New85a]. **Integral**
[CFL22a, Lee18, LYZW12, Yiz02, Yiz03, BHK78, BSG+12, CQ18, CL17a, CFL+22b, Dra21b, GHL16, HK79, HK80, Hsi78, HHW15, IAM23, Kir04, KADM10, Kri87, Kut19, Luo19, Mah82, Mir23, MTR11, New74, Tau81, Tho86a, Tho86c, Tho87a, Tho88, Vas86, Wei93, YW09, cc85]. **integrality**
[MM05]. **integrals** [BC06, Sim83]. **interesting** [Bru85]. **Interlacing**
[Mar90, CM84, GT11, ISCS11, LM98, LPS12, NU94]. **intermediate**
[BK21, WOY06]. **Intermixing** [Dra23]. **Internal** [BC83]. **Interpolated**
[SYK15, YSK15]. **Interpolating** [AkK17, CJ12, KK16]. **Interpolation**
[JvdD88, LP11, OU22, Ala18, AG15, BCR91, CH12, DMV18, DWL13, ZZ00].
interpretation [ER90, RS18]. **Intersection**
[JNBR93, AN14, BCS14, HS83c, Tho75b, XWT22]. **interval**
[Aze99, CR22b, Har96, Hla17, HWL21, KSMB16, KP11, RR95, RK94, Roh06, Rub20, Ska17, TXL21, XLL15]. **Intervals** [AG16, AAKS21]. **intraclass**
[Mai11]. **intransitive** [CL86a]. **Introduction**
[Abo20, AL94, Row95, KP14b, Pie92b, Tra84]. **inv** [Gar79]. **Invariance**
[MF77, SSZ93, BK83, Bea78, Gro96, Hem93, LT88a, LFY16, Man91, Min76, WW20b, XQ15]. **Invariant**
[BR04, De 90, Dom14, Ger74, MZ04, NT86, Pat77, Sil98, Tho87a, AE10, Aze99, Bae84, BG86, Ben78, CW81, CDJ13, CLW15, CLR81, Fri90a, GP22b, Heo16, HJ20b, HS87, HJ87, HMN91, JS94, JP15b, JL88, JN92, KMEO12, LT87, LT89a, LT89b, LT90b, LT90c, Li91, LT92c, LT93, LLW07, MKS84b, Mar90, McD92a, MMRR09, NS85, Pok87, RRR93, Ras19, Rod81, Sch22, Sel81, SX23, Sil88a, Sil88b, SS96, SAV01, Sin73, Sol80, Ste82, Wan17b, XFG14, Zab89, Zab90].
Invariants [Gur97, Mau78, PW78, ARH15, AMZ13, BZ99, Bed10, Bed11, BX11, BCdHP10, BB17c, CLX22, CNW18, CN15, Đok09, Dom00, Dre93, Fog73, GA85, GHV99, GL97, KP92, Lop11a, Lop11b, Lop18, MZ17, MM23, RH11b, Sch75, Sch78, Tho88, Wat83, dTS20]. **inventory** [Mer83a]. **Inverse**
[BS11, CLX03, HA22, HS16, LLS14, MNN+98, Min82a, Mir18, ZHZ11, AHK92, BT10, BT22a, BST23, Bap97, BCN05, BP19, BAN12, BLZ11, BB17b, BBX20, BS17e, Boa19, Bou18, BDD23, BT98, BZZ10, BZZ11, BSZW13, CC17a, Cam80, Cam83, Che95a, CS19, CS21a, CHZ22, CS22, CZWF23, Chu22, Cro18, CICX09, CIN15, DM22a, DMV18, Dec74, DK23, DD10, DCIW10, DLW18, DS16, DK22, ER90, FS18a, FdF09, FOT23, FSWX22, GCP20, GCP21, GZZF23, Gar23, Gar85, Gro99, HLZ22, HP18, HM23, HM78, HXL16, HPV84, HPV88, JL93, KMRS89, KS22b, KCSĆ21, KW11, KR07, Kyr11, LCZW19, LZ23, LP16, LWY11, LYZW12, LPH17, LL78, ML21a, Ma22a, Ma22b, MP16a, MS18, MZ15, Men22, MMG15, Mol18, MS15a, Mos15, Mos19, MM22b, MZ22, MAM15, PM22, PJ90, PM14, PH97, Rea96, Rom19].
inverse [Rom22b, SSZ22, SM20, SN22b, SX22, SC20, Siv06b, Smi05, SPM14, SPK15, SPKC15, SKM17, SW22, SZBW16, Tia05a, WL15, WfMR16, WLL19, WLL21, WM21, Wei98, mWyD11, XQ16b, Xu93, XSH18, XCM20, YZ14, YW05, YW09, YZC21, ZFSX17, ZMG20, ZBW12, ZCP16, ZPCZ16, ZCP17, ZIC22, vR11, LLS16]. **Inverses**

[BP74, GN02, KS22a, MR15, Rao81, Zha04b, AELL20, BI95, BHK78, BM17a, BS22c, BT06, BL13, BGV11, BT15, BGZW16, CC22a, CKN95, CD21, CC21, CZZH22, CIM19, Dra13b, Dra17b, Dra18b, Dra23, FLT20, GK18, HK79, HK80, HLT22, HM76, HM77, JGK79, KS23, KS15, KM14, KCICV18, KR14, KD23, Kyr08, LPT13, Li11, LC18a, LW11b, LW08, LB21, MR13, MP13a, Mia93b, MS12, Mos20, Mos21a, Mos21b, MW22, Nab98, Pab22, PP16, PBM20, Rad16, Rom20, Rom21, Rom22b, Siv06a, Smi74, Sol14, Sta15a, SKP18, SĆK$^+$20, SMM22, SCL$^+$22, SPS15, Tia01, TC04, TS05, TT06, Tia10, Tia18, Tia21, VM07, WC15, XCC99, XQZ13, XCB18, YZZ20, YLS10, Zar01, ZWW22, ZX10, ZCW21, ZC22, ZCZT22, Zhu18, ZP19, Zhu19, ZW20, ZWM23]. **Inversion** [JTW17, Elo18, FZ11, JS91, Jon78, lLZjZ19, Mar20, Tis93, Wer86]. **Invertibility** [BLR12, CH22b, Den14, FSvW11, IK18, KR02, KR03, MAT22, SR17, Wat83, Xia20, Zel75, Aue95, Aue98, BLZ10, Bou13a, BMGMC15, CQH15, CIP18, Cve18, CM22, DW12a, DD12, DK22, GNO20, HC14, LD17, LC20, MŠ09, PA10, SA17, TCI13, WHC22, ZZ16, ZCCIW12]. **Invertible** [BLSV12, Gur97, GL97, BSÜÖ13, BDH23, Che07, DLD22, Dra22b, DK21, Fra13, Gow80, GHL16, HBM15, lLpW16, LWB11b, Siv06a, Siv06b, Tan13a, Tan18b, XPY16, XZ18, ZCW21, ZZC17]. **Inverting** [KHG13, FdM18, dFSY22]. **involution** [AF11a, AF11b, AF12, BCI13, BB17b, HE20, HPV88, Iop19, KR07, Lee15, LC18a, NTW23, QZ16, RD12, UG21, Xu15, ZC22, ZP19, ZWM23, dFSY22, dNV19]. **Involutions** [Slo13b, BL11, BFJ12, Fie95, FdM18, Hou22, KL21b, LY22a, LK21, TZS19]. **involutive** [LK23, LWB11a]. **involutory** [BB06, Bal75, Bal76, Bal77, Bal79c, BT98, PA10, Tia11c, ZW14]. **Involving** [Pat81, ASR22, AHK19, Du10, FG22, Gha21, GLLM21, JK22, JKD16, Joh77b, JSG94, JR94, Kar23, KMS18, LM96, LW11b, LLF18, Mer74, PLLL20, Raï14a, Raï14b, Raï19, TX13, TG23, XJS20, XHL23]. **iota** [FKC19]. **irrational** [DH91]. **Irreducibility** [MM05, Mer75, Mur89]. **Irreducible** [CY22a, GT14, Lla96, Min74b, Abd09, BCS14, Bru79a, CCU21, Coh88, DF87, DLL19, Els78, Fon89, Fri12, Hol04, Hua90, Hua22a, Hun83, Hun86, JP15b, KSMB16, Kra05, LZ09, Li95, Min74a, Pat93, Pul75, Roh06, SZWB16, TB92, lWW15, WWW20, YSY17]. **irregular** [LGZ20, SHS17]. **irregularity** [JWBB22]. **Isolated** [BS08, SRW07]. **Isometric** [KLL22, GJR22, MCL20, MP18, MP19]. **Isometries** [ĐLR91, KL95, LŠ02, MN12, Đok90, GWW16, HS83b, HFS15, HF18, Hos22, IK19, JS20, LT88d, MWLW22, Mol15, Oi20, SM23, ZCZT22]. **isometry** [CP16]. **Isomorph** [Whi74]. **Isomorphism** [ARH15, Oge94, Cve95, Dix79, RH11b]. **Isomorphisms** [BDvW12, BD12, BDvW16, BFK18, CMR21, DPvW13, IT16, LWXF15, Pan15, Wan16d, XWF15]. **isospectral** [Mer97]. **isotropic** [JMS19]. **Isotropy** [Sta23]. **Issue** [KL17, KL21a, LT09]. **issues** [BBM20]. **Itô** [AM15]. **Iteration** [Fan83, CH06, CL22b, HZV23, LZ16, TT15, Xu18, ZV19]. **iterations** [Mis17]. **Iterative** [CC17a, DH86, DCLW19, GLM$^+$22, LLC21, WX19, AAB17, ALP94, BS17d, BNKJ22, CW20, DK23, FTA20, Gib89,

HM20, HM22, Kul22, LC18b, PLPC19, Xio23, YZH19, ZWZ23]. **Ito** [HZG14]. **IV** [Chu90]. **Iwahori** [Mit10].

J [New83]. **J.** [Mer79b]. **Jacobi**
[All14, BB21, CKN95, GPM14, HK21, Mir18, MB22b]. **Jacobian**
[Wri93, Yu96]. **Jacobians** [Li21b, Neu83]. **Jacobson** [YZZ20]. **Jain** [KKS21]. **James** [AV22, BBK22, CP13]. **James-orthogonality** [CP13]. **JB*** [CAP22]. **JB*-algebras** [CAP22]. **JBW}** [SH21]. **JBW}-algebras** [SH21]. **Jensen** [Anj17, BHK10]. **Johnson** [Ano79b, Moh15, Hu94, Mol18, Rub89]. **join** [MH12]. **joins** [CC22b]. **Joint**
[BFM20, GR93c, GBM21, MS15b, BM22c, Cha18, DM14, JX13, KV23, Pep19a]. **jointly** [ST22]. **Jones** [Byt20]. **Jordan**
[MC17, Sło18a, AAB15, AEV12, AH10, An18b, AGAG96, ABM22, AM21, AAUN22, BB21, Ben05, Ben16, BDvW16, BDD23, Bre16, BG23b, BN88, BC94, BFK18, BM16, BMGMC15, CCU21, CM19, CL17b, CMDE19, DPvW13, DW12b, Elg22, FKKS11, FJ09, GT11, GJ22, Gow22, Gra11, HKP23, HL09, HS91, HLH18, HZXL15, IT16, Kay17, KPS19, Khr16, KPPR21, KLJ23, LWZ15, Lee16, LZ11a, LB11, LPS13, LF13, Lin21, MJ07, Mol15, NSW21, Nor95, Nor08, Pas15, PT10, PS91, QZ16, Roi99, ST15, SX22, Slo17, TRD16, TS21, TWK22, TJG22, WHX08, Wan18, Yua98, Zha16a, ZW14]. **Jordan*** [LLF14]. **Jordan-like** [AM21]. **Jordan-multiplicative** [AGAG96].

K. [Mer79b]. **Kac** [CW23, CMDE19, Mar00, dFK21]. **Kakutani** [Esh17]. **Kantor** [EKO14]. **Kantorovich** [MP94, MP95, MGH19, Zha01b]. **Karcher** [FS15, FS19]. **Kato** [ZZC17]. **Kazhdan** [RS10]. **Kellogg** [Ano79b]. **Kemeny** [CDK22]. **Kernel**
[BR04, GGGA21, GY22, LM85, LCZW19, Pep19a, Pep19b, YGÇ19]. **Kernels** [LLWX17, CL17a, Hun86, Józ15, Kut19]. **Khinchin** [zY11]. **Khintchine** [NASR19]. **kinds** [LLWX17, MHM22, SLUG04]. **King** [Don91]. **Kippenhahn** [Law19]. **Kirchhoff** [CMM17, Ye11]. **Kirillov**
[BCZ22, Cen11, ZCY22]. **Kittaneh** [WZ14]. **Knopp** [Car19]. **knots** [Bae84]. **known** [Krä87]. **Ko** [GX17b, Woo22]. **Kobayashi** [Hsu85]. **Koethe** [CKLP13]. **Kolmogoroff** [FP17]. **König** [Kov86, Aha76, HL84]. **Kostant** [HK10, Tam97]. **Kostka** [ER90]. **Koteljanskii** [JN14b]. **Köthe** [DV19]. **Krahn** [ZZZ12]. **Krawtchouk** [KHG15]. **Krein** [LLMT05]. **Kronecker** [Cal99, Atk91, Cal97, Cal03, CG17, CK20, De 78, Di 88, HZ11, HS81, HPS83, Lew96, Nor08, RW96, SW81, Tia05b, Wan80, vR11]. **Krusemeyer** [Ric87a, Ric85]. **Krylov** [EJS22, ZQZ21]. **Kuratowski** [HW88]. **Kwong** [NS22, ZW19]. **Ky** [Gro17, JLL88, MP94, MP95, Mos12].

L [Mag83, YW16]. **L-structured** [Mag83, YW16]. **labelings** [KT95]. **labelling** [LL22b]. **Lagrange** [Jon78]. **Lagrangian** [MMRR09, PT10]. **Laguerre** [ASAS79, Mej19]. **Lambert** [JS19]. **Landau** [BdP21]. **Laplace** [Bay22]. **Laplacian**

[AAS14, AFTG19, AADdF23, ABGP21, AAB20, AM85, AH16a, Are22, Ash16, AEG19, AKB21, AOTR11, BKP01, Bar08, BLP08, BPW16, But10b, CRW21, CP15, CL17c, CHQ18, CZ21, CFLL23, Con90, Das04, DP17, DAH19, Das21, DK17, FTZ08, FLZ07, FYIS13, FHT14, GHL10, GM90, GZ90, Guo07, GLS16, HMO11, HLP03, HUZ17, HHW15, HL22, JS22, KP22, Kir04, KADM10, LP07, LST23, LP00, LLF08, LZ11b, LC14, LLP18, LLZ22, LPWX10, LL15, LZ15b, LL10b, LPH17, LDL17, LW22b, LY22d, LHH18, MH16, MT22b, Mer97, Mol18, NC22, NP09, Obo22, PLH01, PGLM00, PRAC22, RA21, Rod02, Rod03, Sar20, SYZL17, SHS17, So99, SD20, TJ11, Tan12, TYC21, Vrb86, WSH+11, WH11, WZ13, WBZ14, WW15, WLW23, Wat90, XZL14, XYH22, XLS20, ZLS11, ZZ15, ZZZ23, ZG08, ZW17a]. **Laplacian-like** [Tan12]. **Laplacians** [CTY20, Fie95, Lee98, LS21a, Lor00, Mer95, PLLL20]. **Larcombe** [MM23]. **Large** [GZ90, Loe01, Mer97, NW02, CW20, Din15a, KMEO12, LLP18, LHH18, Pat03b, dSP16b, Sol14, WY20, Zen22]. **largest** [AAT17, Bel15, BPW16, Bén11, CR90, Das04, Das21, DdF15, Guo07, GZ22b, LP00, LXG17, SSZ22, Sim95, Sta10, SKLS20, SKLS21, Wal11, XZ16]. **Last** [KMS02]. **latin** [SMF95]. **Lattice** [Cir15, BV92, CZY12, HMK22, JS94, KMH19, MPGS21, RW84, YW10]. **lattice-theoretic** [KMH19]. **lattices** [GT14, Ger04, Ye11]. **Laurent** [JK10]. **Lavoie** [YLS10]. **law** [CID16, DD14, LW08, Mal92, PBM20, Rad16, XQ16b, ZCP17]. **laws** [BS18b, CIN15, CIM19, LZ23, LFY16, XQ15, ZX10, dC15, dC18]. **layered** [Mur89, Nie22a]. **LB** [HZH20]. **LB-TD** [HZH20]. **LCD** [LLY22]. **LCM** [HINS10, Tan10, TLL11, XL11, Zha14b]. **LCP** [LL22a]. **LDU** [Smi83]. **leading** [Hol84]. **leaks** [GOS22]. **leaping** [Kom10]. **Least** [WXD21, YL11, YLW15, YZL17, ZLZ+22, AAB17, Ano16b, BPS16, DM19, DLQ18, Din98, Fan05, GW17, GZ22a, GZ22b, JS84, Joh84, KS82, LLW07, LW08, LW10, LZS23, Pen15, Wan15, Wan17b, WLZ22, XQZ13, XQ16b, YWZ21, ZWLZ22, Zhu15]. **Least-squares** [ZLZ+22, AAB17, WLZ22, ZWLZ22]. **leave** [Ben78, Sin73]. **leaving** [LT93]. **Lebesgue** [BS22a, LRD21]. **Lefschetz** [MCIM21, Sam78]. **Left** [Bre21, CQH15, DK22, EKO14, HBM15, Kre16, MW22, Tho86a, DS16, Đok73, DK21, GMZ17, GZW20, LCL14, LGB17, MVPS14, MVPSTT23, MRD15, WHC22]. **Left-star** [Kre16, MRD15]. **left-symmetric** [LGB17]. **Legacy** [Mer17]. **Leibniz** [Ano22b, ARH15, ACO21, AM15, AKOZ20, BCLS23, BCS14, CCGO11, COK19, CLOK13, CKR18, CR18, GLOT13, KPPV18, KLO14, KLO19, Mil15, RH11a, RH11b]. **lemma** [CGMR11, YZZ20, Bar07, Bar12]. **length** [BP90, CCGO11, CW81, Ell93, Wes80]. **lengths** [Kol23]. **Leonard** [Aln11, CGH15, Han21, HZG14, HZH20, KHG15, KC16, WHG17]. **Leslie** [Har96]. **less** [Bot87, Lim90a, Sim95, dB16]. **Letter** [Bha91, Cha93b, Ram02, Roh13, Sch15, dS19a]. **letters** [Min74c]. **Level** [SRT22, AHK92, HS89, HS91, Lew90]. **levels** [Vol22]. **Levi** [KLO19]. **Levitzki** [Ari16, DP18]. **lexicographic** [AAdFS19]. **Li** [FS15, Lim23]. **lie**

[JN22, Tow22, ACO21, AS20a, AC19, AH20, AAA22, AWM22, AH16b, AA20, AK21, BL10, BWLL12, BD12, BW15, BGLZ18, Bas17, Bas19, BMN22, BV92, BBM15, BRL22, Ben07, Ben15, Ben22, BCS14, BCS18, BM14, BS18a, BB14, BTV07, Bre14, CR15, CGNT15, CCGO11, CPS22, CSG22, CV94, CKR21, CC19, CCC21, CW11b, CX12, CW12, CY22b, CQ22, CZ23, CWSZ17, Che03a, Chi22, Chu84a, CPT15, DH18, DS23a, DDA20, Dol07, DR18, DBG18, FD17, Far93b, FZ17, Ghi22, GS95, Gra10, HH22b, Hon22, HH16, Hou17, HX21, JLZ12, JQS13, JL12, Joh22, Jul21, JO23, KK75, KZN22, LK23, Lee94, LCL13, LW11a, LF13, LCC19, LWXF15, LL10a, LL11, LZ12, LZ13, Liu16a, Liu19, LW20, LC22, Liu22a, LG23, LBV13, Luk74, MC17, MPGS21, MT11, MHA17, Mou04, NZK21, Nir11]. **Lie** [NJP19, OWX09, PN22, PZGL22, QH11, Qi15, Rom89, SV14, STME10, SN22a, SX15, Shi18, Spi04, ST99, SYZ22, Sun21, ST97b, TKT19, Tan18c, UF22, WOY06, WOW09, WY11, WL16a, Wan16c, WL16b, WJ16, Wan16d, Wan20, XW12, XWF15, YD14, YZ13, YZ20, Yan21, YWO07, YH22, Zha15c, ZL15, vWZ19]. **Lie*** [Liu18a]. **Lie*-automorphisms** [Liu18a]. **Lie-theoretic** [Mou04]. **Lie-type** [MHA17]. **Lieb** [TWK22, Byt20, NY23, Pat96]. **LieRep** [ZLS22]. **Liftings** [Suc22]. **lifts** [DFPS23]. **Ligh** [KMH19]. **like** [AM21, BD14, KM17, LM19, Nie22c, Tan12, Zha97, ZZL23, ZAK22]. **Limit** [Ger86, Cam78, Har84b, Kat75, LYZW12, Rei83, Tos79]. **Limiting** [Sie99, LN14]. **limits** [Geh15]. **Lindström** [LN80]. **Line** [GW08, Cas23, CMM22, HJ77, HT91b, Mir23, QX23, WBZ14, ZB13]. **Lineability** [BMP10, BMFPBSS21]. **linéaires** [Del94]. **Linear** [AS17, ASZ02, Bea78, BP89, BP90, BP92, BL93a, BL01, BBBS09, Bot79, Bot87, CL83, CL92, CL95, CLN13, CLMR09, Coe96, DRY22, DGJ$^+$16, FHLS13, FHL$^+$14, FA22, FJZ21, Ghi22, HJ19a, Hof75, Hua96, HW75, HKS94, JS94, JS84, Jam81, JP86, JLL88, JLR$^+$92, KP92, LL90, LL16a, Lau81, Lev74, Li87c, LT88c, LT88b, LT90b, LT90a, LT90c, LT93, LM93, LP93, LMR94b, LŠS01, LZ01, LM03, LS04, Lim76a, Lim79a, Lim82, Lim90a, Lim90b, Lim97, Lim01, LRD21, Loe93a, Loe93b, Lor14, Luk74, MPI17, MF79, MC80, MŠ09, Min77, MSS19, Mol09, Prz92, RK94, Sin82a, Sło18a, Sło18b, SA14, SB03, Tom19, Wat82, Wes74, Whi74, Zha05, Zha22, ZXF15, ZW14, Abd09, AC13, Aln15, AFM13, Ami11, Amm18, Ano92g, AW83, AB22, BB06, BH23, BB20, Bar07, BS16, BS17c]. **linear** [BS22b, BNKJ22, BGdH92, BB19c, BT08b, BLZ10, BR10, Ben78, BCM18, Bou18, BZZ10, BMGMC16, BF96, BSS12, CKS19, Cam83, CW90, CW20, CL91, CC19, CS10, CKLP13, Che93b, CW12, CZZH22, CW23, CWSZ17, CSY18, CL05, CKL16, CK20, CL21, Chu84b, CPT15, CF15, CFP21, CLW21, DM17, DM20, DPR22, DPP17, DH86, Del94, Den14, DLQ18, Din00, DIJ23, DKY22, Doo16, Dra21a, Dra18a, Dre93, DN18, EL09, EÖ15, EBB18, Esh22a, FDLB20, FK91, FW73, For87, Fošo5b, Fow80, FH15a, GLL18, GP06, GL85, GOS22, Gib89, GJ22, Gur98, HK16a, Had83, HHSY22, HR85, Hla17, HH16, Hua16, HWL21, Hua22c, Hun83, Hun86, ISCS11, IK18, INO15, IKR12, JDD21, Joh11, KP11, Kas85, KMS18, Knu85, Koi21, KT83, KKR12, Kov77, KV22, KK22c, Kun99, Leh76]. **linear**

[LCL13, LT88a, LT92b, LT92c, LT92d, LM96, LLF14, LF16, LZ16, LD17, Li21a, Lia80, LLWX17, LZ19b, Lim10, Lim15, Lip96, LWB11a, MT22a, Mag22, Mag83, Maj22, MM06, Mar97, MR12, MHA17, MID17, Ma'15b, McD92a, Mil22, MN96, MŠ98, MB22a, MOGN18, MBB22, ME18a, Ned98, ND13, NT91, New80b, Nie07, Pan13, Pap13, Pat77, Pat83, PUÖ15, PW78, Pie79, Pop17, Pre22, Raï14a, Raï14b, RRC23, RJ04, Roh91a, SPMR20, SRT22, San18, SC21, SLH20, SXR18, ST86, SSZ93, Sin83, Sla16, Slo15a, SPKC15, Sti87, ST97b, TRD16, Tan18a, Tan13b, Tia00, Tia11a, TJ16, UÖÖ15, UPÖ16, Wal79a, WL16a, WS18, lWY19, Wat83, Wat85b, Wat89, Wei93, Wer84, Wri93, WL16c, WZY22, WL22, XLL15, Xio23, Xu15, YT15, YqS16, YW16, ZWZ23, ZVL18, ZV19, ZAK22, ZCW21, ZL17, dCdSA22, Ano79b, Ano16b].
Linear [Ano16c, TT78, MT84]. **linear-algebraic** [Bar07]. **linearisations** [Ves80]. **linearity** [GR14, Rom07, WZ22]. **linearizations** [Adh13, BD14, DA22, DMQV23]. **Linearizing** [Chi78]. **Linearly** [Mer78b, Rus16, FTA20, Koh11, Pat83, SRK22, YZH19, dCH21]. **lines** [SZ85]. **Liouville** [GMZ17]. **Lipschitz** [Oi20, RP04]. **List** [Ano12b]. **listing** [Mum86b]. **lists** [Wil73]. **Literature** [KS17b]. **little** [Krä87]. **Littlewood** [AW13, AM90, BG90, Wat86]. **LMI** [Hil07a, Hil11]. **Load** [Kir14]. **Local** [AKY21, AK21, Ben74, Bun94, CZZ22, CFP10, Gal79, HSM17, Liu16a, LT22b, SYZ22, Yao22, ZL17, AA20, AAUN22, BEH19, BDS13, BJS15, Ben18, BM15c, Cos14, DK14, EAM19, Epk89b, EPR16a, EPR16b, GSS09, GP22b, Jaa22, Liu16b, Liu18a, Liu19, MWLW22, ShDHG08, YF18, YW10].
localization [Ano22a, JL85, LR96, LLL15, LL16b, LZL16, MH20, PMP22, SL19a, Sen83].
localized [BZ22a]. **Location** [Fer10a, RW21, HHC12, Jin17, Joh75b, JLR+92, LB19]. **loci** [Ven19a].
Loewner [HS12, NS18]. **Loewy** [Moh15]. **log** [GAMA23, KD16, TJG22].
log-convex [KD16]. **log-majorization** [GAMA23]. **logarithm** [CFSRL22].
logarithmic [DM13, OvdD77]. **lollipop** [LZ14a]. **London** [KM84, MV91].
look [MC19]. **looking** [DH91]. **Loop** [DH18]. **loopless** [SG09a]. **loops** [KMP+19, MPI17]. **Lorentz** [Hil07a, Hil11]. **Lorentz-positive** [Hil07a, Hil11]. **Lorentzian** [NP91]. **Lotka** [ALP22]. **Low** [DO19, ARH15, Bal18, CFSGL18, Der18, DBG18, FP17, GLM+22, KS17b, Laf78, RH11a, RH11b, WW20a, WW12]. **low-dimensional** [ARH15, RH11a, RH11b]. **low-order** [FP17]. **low-rank** [CFSGL18, Der18, WW20a, WW12]. **Lower** [Bén11, BR19, Cal03, CW10, DTS14, Hon99, JKB17, MC89, Mer81, PLH01, Pat87, Pat03a, Rho87, Rho90, Rob75, AFM13, CR15, CW11a, Kar83, KMN01, Li11, MF20a, Mar97, Mel13b, Neu83, Pat09, PS20, Ric78, ST94, SSG12, Tia17, Xio23, YSY17, ZBW16, ZWS20]. **LU** [Neu81].
LU-factorization [Neu81]. **Lucas** [Chi11, lGyW99, KA19]. **Lusztig** [RS10].
Lyapunov [AL78, BBP78, BV16a, HS85, LZT18, LZ19a, Loe73, Loe74, Orl18].

M [GT08, SA14, GT08, Wan77, XCC99]. **M.** [Cha83a, For79c, Hsu85, Krä87, Mal89]. **M/M/c** [GT08]. **MacMahon** [BX11]. **made** [KS19a]. **magic** [BTT20, Lor14]. **Magma** [LPS21]. **Magnitude** [Sin81a]. **Main** [Ter01, Ter06, AFVL00, Bur95, FS14, FS89]. **maj** [Gar79]. **Majorization** [Bap87, BJ93, KPP13, BNKJ22, EBB18, FMX18, GAMA23, GJ22, GM90, JLL11, JMP17, LW12, LRD21, LP22c, Mas10, MSS19, Nie07, Nie22b, Nie22c, SA14, yT00, TJG22, ZL17, vE22]. **majorizations** [Hua22b]. **Malcev** [BPSO12, KLO19]. **Maligranda** [Nie22c]. **Man** [Mer17]. **Manasrah** [WZ14]. **manifold** [MR75]. **Manifolds** [GH98, Muk20]. **many** [BS15b, Hua96, TLC16]. **map** [AF11a, AC13, Aln15, Car20, Chu84a, LM96, LP16, San14]. **Mapping** [ST08, Gol83, Gol90]. **Mappings** [Pet10, TH18, BSO13, CL01, CG22, Eba92, FU20, Gha12, HLH18, HZXL15, JL12, Kuz05, LF13, Lim82, Lim90a, Loe93a, Loe93b, MW74a, McD92a, PR12, Pet97, Tag12, Vel21, Wan17a, Wit11, ZL17]. **Maps** [AN19, BDS13, BE22, BM15c, CGY13, CL17b, Che03b, DŠ04, Dol04, Dol07, EAM19, EM15, FKKS11, GM18, HH22a, LJ11, SH21, Slo14b, TH14, WJ16, XXF22, Zha04b, ZHH09, ZWW10, AA21a, AEV12, AS17, AG15, AC21, AKS18, BHD10, BHD11, BEH19, BBBS09, BH13, Bot87, Bre12b, CKS19, COK22, Car19, CL80, CL85, Cat21, CCL21, CM19, CC19, CW11b, CW12, Che14a, CW16, CY22b, CW23, CWSZ17, CSY18, Cho10, CKL16, CK19, CK20, CKT20, CW22, CL21, Cos14, Cos21, DM17, DM20, DS13, DHB07, DW12b, FDLB20, Fošb05b, FHL+14, Fra13, Fra17, FH15a, GP06, GP22b, GJ22, HK16a, HR85, Heo16, HJ19a, HJ19b, HJ20b, Hil07a, Hil07b, Hil11, HH16, Hua10, JS94, JQ15, JP86, JLR+92, Jul21, KMS18, LP11, LF16, Liu15, Mar13, MA75, MR12, MŠ09]. **maps** [MO13, Mol09, MN12, MOGN18, Nag17, Nie07, OP13, Oge94, Oi20, OK07, Ore19, dSP16b, PR20, PW78, Pie79, Poo17, QH11, QH17, QC23, Rai87, RJ04, RŠ06, RŠ08a, Ruc89, ST22, Shc21, Slo13a, Slo16a, SDL10, SL17, TKT19, TS21, TB92, TXC08, WZC11, WZL13, Wat83, XCC99, XPY16, XL17, XZ18, YZ20, YH05, ZCZ12, ZX16, Zha16a, ZXF15, ZW14]. **Marcus** [And80a, AYT83, BD96, Cha89, Cha83a, For79c, GLS13, Hu87, Hu89, KL17, Krä87, Mal89, Mer17, ST80, Tam86, Tam91, Wan77]. **marginal** [Joh82a]. **Markham** [Kua18]. **Markov** [AS11b, CFSRL22, Gue17, Gue19, Gur98, HWX22, Kir14, ME18a, ME18b, ME21, Pan22, Sie99]. **Martices** [MNN+98, Wer87]. **Martin** [Koo95]. **Marvin** [Mer17]. **mass** [BS15b, LLLY23, XY22]. **matchability** [AKK+23]. **Matching** [LS21a, CHL18, CH22a, CFLL23, FLZ07, KS22a, LC14, LY22b, LLGX22, LY22d, LW23, MF20a, Mum86c, Rau18, SYZL17, SKLS20, SKLS21, TW19, WL20b, WL18b, WL23, XZS19, YLW22, YS23, ZXL22, ZZ15]. **Matchings** [KOSS23, AFTG19, FGHL22, GZ22a]. **Mathias** [FS15, Lim23]. **Mathieu** [dB16]. **matric** [PM78]. **matrical** [AK94]. **matrice** [Sło18b]. **Matrices** [AY74, BKL02, BL93b, BS04, BT98, Bru79a, Bru82, BF75, CLX03, CS21b, CA03, CD03, Cra09, De 82a, Dom95, EMS02, Gar21, Gib92, GN02, Gra87, GK77, HS83a, JR93a, JKZ20, Joh81a, JL90, JL93, JT95, JT04, JP07, Kap77,

KW21, KK22a, KMS02, Lev74, LP02, MS74, Min74d, Nab98, New80b, Peñ02, RR04, Rao81, Ric81, Ric85, Ric87a, Rob77a, ST73, Sin76b, SHC02, SJ02, SK03, SB03, Stu89, TZS19, Tau74, TDL18, Zab89, Zab90, Zha04b, dO75, AG22, AA21a, ACI15, AKR23, Abo20, Ach77, AS95, AG16, AAK16, AR22, AAB17, AAT16, AGS20, ADJAH22, ANK22, ARK22, AAJ12a, AJL14, AJL18, AAJ12b, AS20b, Ala20, AAKS21, AW07, AAB20, Alp95, AST05, Ami80, AMZ13, AEdF13a, AEdF13b, AdF21, AO78, AB78, And80b].
matrices [AD17, Ang00, Ano22a, AB19, APEPPS23, AG96, AM21, Arm17, Ati20, AKB21, Aue95, Aue98, ALP94, AA20, Aze99, BS15a, BHC16, BLX18, BJS98, BB06, BT08a, BT10, BT22a, BST23, BBG22b, BBG22a, BBG22c, BG86, Bal77, Bal79c, BL83, BDK09, BS91, BPS00, BCN05, BK17, BZ90, BZ99, Bar74, Bar80, BG83, BOvdD91, BH90, BT90, Bas19, BHK78, Bea78, Bea85, BL93a, BL97, BL01, BS16, BS17b, BS17c, BPD88, BLD91, BL92, BP98b, BKS21, BDS13, Ben74, BH74, BB75, BT06, BLZ10, BL13, BSÜÖ13, BBM15, Ben05, Ben07, Ben78, BGV11, Ber17, Ber12, BB15b, BP74, BS97, BSM98, BX07, BDK$^+$05, Ber05, BZ89, dAB17, dAB21, BD85, BBP21, BP22, BDH23, BH15a, BS17e, BLSV12, Bo01, BR01, Bot94, Bot96, Bot97, BB96].
matrices
[BB17c, Bou13a, BCCL22, BKMMG22, BZ22b, Boz98a, Boz98b, Boz99, BT15, BFI22, Bra86, BC17, BD13a, BCKP10, Bru85, BS08, BD13b, BM18c, BM19b, BD22b, Bru79b, BK87, BZZ10, BSZW13, BGZW16, BM16, Bur95, But10b, CC17a, CM92, Cal97, Cal99, CQ18, CKGP21, CP81, CCS16, CCU21, CGY13, CK17, Cao19, CCKL20, CMP22, CP97, CDM22, CFSGL18, CFSRL22, Cas23, CdM15, CL92, CCS98, Cha83b, Cha84a, Cha88, CGW14, Che92, CKN95, Che07, CW10, CW11a, CZY12, CP16, CW16, CCW20, Che22a, CZWF23, CTW15, CKMY22, CT96, CL14, Che17, CL05, CNP05, CNP06, CN08, CLNT17, CN21, CC23b, CKS20, CH22b, CLN13, CKL16, CK20, CKT20, CW22, CL01, CKP09, CJW19, Coe96, CR77, CZ22, Cos14, Cra91, CL74, CGH14, CPLH17, CIP18, Cve18, DFPS23, DGL22, DHHK23, DA22].
matrices
[DPP17, De 90, De 75, Dec95, DK23, DTS14, DOP22, DD10, DCIW10, DRY22, DHS95, Din15a, DIJ23, Do 96, Dod13, ĐL92, Đok93, Đok17, Dol07, DO20, Dom14, DC20, DC23, DW23, DMQV23, DGJ$^+$16, Dra22b, DJL94, Dru15, DdF15, DdF22b, DHH22, DH22, DN18, Düf97, ERS12, Elg22, ELG88, EL90, Elo18, Els78, ER81, EJD88, ES98a, ES98b, ES00, ES76a, EV77, EM73, ESH23, Esh22a, Esh22b, Est80, ETM22, FL16a, Fal97, FV97, FJM00, FX12, FT21, Fan73, Fan92, FL18, FW07, Far17, FJ15, FWZ11, Fen10, FdF09, Fer10b, FF21, FM22a, FS83, Fie90b, FP17, Fit94, Fla75, For79a, For79b, FS86, For88, For79d, Fošo5a, FHL$^+$14, Fra13, Fra17, Fre76, FH89, FM78, Fri84, FLS88, Fri12, FL16b, FLT22, FSWX22, FG22, FS15, FSY16, FIS06, FJZ21].
matrices [FJ22, FS89, Gai77, GLL18, GHL20a, GPM98, GA18a, GG22a, Gar85, GWW15, Geh15, GJR97, GKS01, Ger86, GS21b, GS21a, GPM14, Ghi22, GV95, Gib76, GZ99, Gil14, Gil17, GKLR82, GZ76, GTZ75, Gol87, Gol92, GH98, GS20b, GR10, GR93c, Gro97, Gro99, GLP92, GP96, Gro17,

GHT11, GHK16, GHL16, Gur79, Gur92, Gut22, Gut23, Gyi78, Ha88, HC14, Haj18, HK79, Hal91, HA22, HJP17, HZ11, Har87, Har78b, HS83b, HS83c, HMAD13, HINS10, Hau12, HDJT97, HWZ18a, HR85, Her83, HS88, HS93b, HNS99, HS12, Hil17, Hil18, HLS18, HKO16, Hol85, HH85, Hon99, HJ87, HZ12, HM76, HM77, HM78, HLZ18, Hsi78, HLZ05, HH14, Hua01, HW06, Hua08, Hua10, HLZ11, HZ20, HL20, HZX22, HK17, Hwa85, Hwa91, HK92, HS93c, HKS94, HM95, HKS95, Ibr00]. **matrices**
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Sta15a, Sta23, Sul08, SH92, SWZB15, SK15a, SK15b, SvW14, TD14, Tal17, Tam86, Tam94, TT12, TZ19a, Tan10, TLL11, Tan13a, Tan14, TLC16, Tan18b, Tan20a, Tan20b, TG09, Tau81, Tho74, Tho75a, Tho75b, Tho86a, Tho86c, Tho87a, Tho88, Tia01, TS05, Tia05a, Tia05b, TT06, Tia11a, Tia11c, TL12, TJ16, Tia18, Tia21, Til77, Til98, Tis93, Ton87, Tra89, Tra90, Tre85, Tre86, Tre87, TGW14, TMOvdD93, TZ21, UÖÖ15, UPÖ16, Uhl79, Uhl14, UG21]. **matrices** [Vas87, VM07, Wad90, Wal73, Wal75b, Wal86, Wan76, Wan79, Wan80, WZ95, WOY06, WZC11, WYM11, WZL13, lWpW14, lWW15, Wan16a, WC16, Wan17a, WS18, WL18a, WLL19, WS23, Wan05, Wat84b, Wat85a, Wat85b, Wat77, Wat82, Web83, Wes87, Wim85, Wim88, Woe93, WM84, Wör20, Wri22a, Wri22b, Wu09, WHC22, XW22a, XW22b, XCC99, XZ22, XQZ13, Xu93, XXZ11, XL11, Xu15, XPY16, XL17, XZ18, XHL20, XCM20, XY22, YLS10, YLC19a, YLC19b, You80, YBCW96, Yu96, YW16, YZH19, ZZ16, Zel85, Zel75, Zen22, Zha00, Zha01a, Zha89, ZS05, Zha05, Zha14a, ZZZ16, ZFSX17, ZMG20, Zha20a, ZWW10, ZHZ11, Zha14b, Zha22, ZXF15, ZCLW22, ZJC$^+$22, Zho16, ZBW12, ZW14, ZCW21, Zho22, Zim89, Zou12, ZIC22, cc85, dF13, dFSY22, dCH21, dPN81, vBW95, vR11, KNX95]. **matrices-nonsingularity** [ES98b]. **Matricial** [Far93a, MRS10, CKL$^+$21, CH12]. **matrics** [ĐDJ76, HK80, NU94]. **Matrix** [AMP02, AP04, Afr73, AP74, And04, jAS15, AW13, AM90, BD94, Bom02, BC94, Che93a, Dat80, Der16, DS02a, DŠ04, EMS02, Fan92, Fla74a, Foa79, FS18b, Gal03, Gil12, GMR81, Har95, JT03, KM22, Leh91, LT92d, LM96, LP03, Mir81, Net22, OW02, Pat03a, PT02, PY82, Rum97, Sin81a, Tho78, Tia02, Tia03, Tur02, Wei98, Zha04b, Zha04a, AEAAES20, Abd20, Ab23, AFVL00, Adh13, AS11a, AM13, AN14, AAD22, ABAH23, Ake83, AAB15, ABGP21, ABP22, AdFK15, AG15, Ano79b, Ano79c, jAS21, AELL20, AKB21, AY95, Aud15, BY19, BS21, BHY22, BK83, Bak84, BB06, BCR91, BJ75, BY76, Bap97, BGK99, BGK00, BKP01, BS11, BR14, BWF83, Bas17, BC82, Bea83a, Bea83b, Bea84, BC85, BD88, BS17d, BNKJ22, BGdH92, Bel83, Ben90, Bén11, Ben18]. **matrix** [BT08b, BDV19, BT07, Bot94, Bou13b, Bou14a, Bou14b, BHK10, Boz97, Bra86, Bre21, BGGS17, BC91, BF15, BS18d, BZZ10, Bun91, BSS12, Caf13, Cal95a, CRW21, Cam78, CKP16, CL80, CJ97, Cav10, CS23, Che92, CH12, CLW15, CS18, CD21, CC21, CQ22, Che91, CCL10, CT09, CNP05, CN07, CN14, CM85, Cho10, CR22b, CKKY23, Coh88, Con90, CC98, CC18, CICX09, CIP17, CIRW21, Dag23a, Dag23b, DM22a, DM22b, DPvW13, DH86, DW92, Dec74, DTSI15, DH11, DM22c, Der18, Deu80, DHT94, DDF22a, DS09, DS22a, DS22b, Đok73, Đok90, Đok09, DB14b, Dom00, DLL19, Dre22, DJ89b, DWL13, DWL14, DS23c, DJS21, DS18, DS19b, EM95, EF98, ER90, EOvdD09a, EGT16, EOvdD09b, EB17, ESH23, FZ11, FTZ08, FHW16, FNW18, Fei79, Fie81, FLR85, FSvW11]. **matrix** [FdM18, FKKS11, Fri97, FH15b, FSY16, GAGM18, GA20, GHL10, Gil93, GKLR82, GLR82, GRSW92, Gol89, GG22b, Gon17, GB90, Gow80, Gra80, GHV99, Gre99, GPK94, Gro96, GJMW86, GTM14, GT79, Gus81, GHT16, Ha89, HK16a, Haj18, HKP23, HL09, HZ11, HLZ22, Har81a, Har94, Har96,

HP90a, HP90b, Has18, HKT15, Hav88, HBI73, HW13, HW14, HW15, He21, HZV23, HS81, HLT22, HS88, HS89, HS91, HM23, Hia94, HS87, HMN91, HBP18, HS16, Hou21, How83, HT10, HXL16, HLPW17, HM18, HWSH13, Hul81, HPV84, HPV88, HLP23, Ikr15a, Ilk20, IH11, Iov15, INO15, JS22, JP15a, JT23, JKD16, dJfLlZ$^+$21, JZ22, Joh77a, JKS79, JOvdD84, JOvdD85, JD99, JS08, JST18, KMRS89, KSU22, KS16, KM85, Kar83, Kat75, KM17, KFR17, KFR20, KL12, KA19, KOvDD09]. **matrix**
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[Tur02, DS23c, Gil93, Oi20, Tia17]. **matrix-weighted** [SMM14]. **Matrizen** [SU77]. **matroid** [Dia90a, Kas85, Mum86a, Mum86b, Mum86c]. **matroids** [BVW84, Mum86a, Mum86c]. **Maurey** [Pop20a, Pop20b, Pop22]. **Max** [SK03, BPS00, BSS12, ISCS11, KS15, LL14b, Mer94, Moh15, Shi16, Tia18, lWpW14, lWY19, ZBW16]. **max-algebra** [BSS12]. **max-cuts** [Mer94]. **max-min** [Moh15, Shi16]. **max-plus** [lWpW14]. **max-relative** [ZBW16]. **Maxima** [YGW15]. **Maximal** [Bal79b, INO15, Mos20, Yiz03, ACO21, BM22a, BS21, BBK22, CH22a, GF10, HKS94, HKS95, JLL07, KMN01,

KS17a, Oml14, Tow22, UZ16, WL16a, Wes80, YS23]. **Maximality** [Fri85]. **maximally** [Ano16c, Ous15b]. **maximization** [DJ89a]. **Maximizing** [CL14, FKP03, FTZ08, GZ22a, LP07, Pat07, WH11, GJMW86, Hu94, Sha94]. **Maximum** [BdP21, FV97, BI95, BP90, BS22b, CCGO11, Cha88, DLSS18, DJ89b, FTA20, GWW20, JD99, JLS09, LH23, MM11, Mac95, Mal86, Mer80, Sin83, zSqSZ16, SL21, Wan79, Wan22b, XW19, Zha05, ZL19, ZZZ23]. **maximum-nullity** [BS22b]. **Mazur** [CAP20, JVMCPR19]. **Mean** [MS81, AG22, ASR22, Ala16, BP12, CW10, CKS20, Dra18a, EJD88, FP17, FS15, FS19, FS18b, Lim23, LS17, Pep19a, Pep19b, SY23, Wim85, vBW95]. **mean-type** [SY23]. **Means** [ZJC+22, CPKK22, DDF22a, FH15b, FSY16, FMS19, GHT11, HSW19, JKL22, KMS18, KMS21, KM22, KK16, PSMA16, Raï14a, Raï14b, Raï19, ST94, Tom22, Tra84, Web83, XZ22]. **Measurable** [Sim83, AR22, BO22a, Han17, Sha20, SY23]. **measurement** [CP16]. **measures** [BPR14, JWBB22, Joh11, KM22]. **meet** [Ilm16, KH05, MH12, WHL16]. **meet-semilattices** [WHL16]. **meets** [CC22b, IH11]. **Mehta** [DJ89a]. **memory** [Uhl99]. **Menus** [HW88]. **merge** [CW91]. **Merris** [Pat93]. **metabelian** [AM15, Mil15]. **method** [BLX18, CW20, CL22b, Chu90, CLW21, DK23, Gib89, Haj18, KN81, LZ16, Li21a, LZ19b, LC18b, LL22b, LLLY23, Neu84, PLPC19, Sad23, SN22b, SAK22, WLF22, WL16c, WZY22, WL22, Xio23, XY22, YZH19, ZL21, ZWLZ22, ZZL23, ZWZ23]. **Methods** [SX22, ALP94, BNKJ22, Cro18, EJS22, HK21, HZV23, Hua22c, KM17, LW17, LW10, Sun20, ZV19, ZQZ21]. **Metric** [AEV12, Rod02, BdPN14, CAP22, OWTZ21, SC20, Tho78]. **middle** [CJY22]. **mimetic** [CG17]. **min** [ISCS11, LL14b, Moh15, NSW21, Shi16, Tia18]. **min-max** [ISCS11, LL14b]. **min-plus** [NSW21]. **Minc** [Cha83a, Els78, For79c, Jia92, Krä87, Mal89, Mar03, Pul75, Sol00, Wan77, Wan07]. **Minimal** [Cal03, Cha79a, CCS98, CD21, DB14b, EV77, Esh22b, Fie81, Hac22, HMAD13, Lop18, MZ17, NS09, Nat13, SG06, WL16b, Woe93, AGP22, BX07, BM14, BZ89, BJZ13, BD14, Cal94, Cal97, Cal99, CKP16, Cao19, Cha77, Dia90b, Đok73, DMdO92, GV95, GMD85, GW21, HJ20a, Hil18, JS16, Kuz05, LC14, Lip98, Loe73, Lop11a, MR19, OvdD77, dSPdS22, RY93, TL13, Tsi83, Wer94, WW80, ZG11, Zha13]. **Minimality** [HKv23]. **minimally** [SSG12]. **Minimax** [GL85, Koz17, CM84, Fie90b, Zim98]. **minimax-condition** [Zim98]. **Minimization** [HS93c, SPM14, FW13, fLLyP15, Pap13]. **Minimizing** [FLZ07, KS19a, FS86]. **Minimum** [BS22b, Bur95, Cha84a, Cha88, Hwa85, JW91, KS82, LSOvdD95, Min84, SHC02, SJ02, Tia02, BHH+11, DLSS18, DIJ23, DH91, FTA20, GR23, GH22, GZY18, Hou01, LLZ13, LGA+13, LLP18, LT13, LLF18, MS16a, NS15, Wan22b, WY20, YSZW22, Zha05, Zho16, dF13]. **Minimum-rank** [BS22b]. **Minkowski** [Mer78a, Mia93a]. **Minor** [IW95, CZ21, Wil87]. **Minors** [Sar20, AAB20, BI95, BCCL22, BF75, For79b, Hol84, HO17, INO15, JOvdD84, Mia93b, RS10, San14, Sin77, TDL18, TZ21, dCdSA22]. **Minus** [BMGMC16, KMS16, CGM19, NS92, NS93]. **Miranda** [Li84]. **Mirman** [GS77]. **miscellaneous** [BLP92]. **missing** [CKS20]. **Mixed**

[Kut19, jAS15, BGK99, CHL18, Fan05, GPM14, GV87, JN14b, LZX19, LY22c, LFY16, LZS23, MMG15, Mur89, Sar20, WL20b, WLM21, XQ15, YZ20, ZD18]. **mixed-type** [LFY16, XQ15]. **mixing** [AS11b]. **Mn** [Leg06]. **mod** [BM18c, BM19b, HH14, Sma17]. **model** [JL22, MT22a, Sal79, SW22]. **models** [GOS22, GLM+22, TJ16]. **modification** [UB22]. **Modified** [BH23, Xio23, Zha20a, BS17d, CICX09, ER81, Gei78, PZGL22, SAK22, ZZL23]. **Modular** [GNO20, Ano22c, CLL14, CN15, KDHJ22, Reg93]. **Module** [BWLL12, FXY22, HJ19a, How86, JKH20, Lee94, Wis12]. **Modules** [AELPM18, Gar75b, MID17, AC78, AR15, AB17, AO22, BCNG23, Ber86, Bre18, aCC17, CL22a, CY22a, CHS22, Dix79, DKM10, FMX18, FMXZ22, GPW22, GP22a, GS20a, GNO20, GR93a, GMZ11, HJ20a, HJ19b, HJ20b, Hua22a, KW92, KW93, LGG19, MS08, Mal95, MR10, Pat95, Per19, PA94, Raj09, Rod22, Son14, Tan13b, TOM88, WZ22, WZ23, Xia20, ZY08, dB10]. **moduli** [dTS20]. **modulo** [GP06, MP13a, Sri20]. **Modulus** [HZV23, HNS99, WZY22, LZ16, ZV19]. **Modulus-based** [HZV23, WZY22, LZ16, ZV19]. **Moment** [KV23, ACJ17, BS15b]. **moments** [CBZ22]. **monic** [Coh88]. **mono** [KY17]. **mono-weakly** [KY17]. **monogamy** [Aud15]. **monogenic** [CF15]. **monoid** [Put82a, Put82b]. **monomial** [Fri85, Yuz84]. **Monotone** [Bar76, BGV11, Gha21, Gue17, HOT15, Mat90, NY23, PSMA16, ZZT23]. **monotonic** [Gol89, Mar92, SH98]. **Monotonicity** [AAJ12b, FM78, Gol92, BJ93, BS17e, ES76a, JGS90, LRR87, Mal91, MF20b, Pat96, Sin80, VM07]. **monotonicty** [Wer87]. **Montgomery** [DF82]. **Moody** [CW23, Mar00]. **Moon** [LN16]. **Moore** [Rom22b, BT22a, BST23, Bap97, Boa19, Bom02, BGZW16, CC22a, CHZ22, CFGM06, DK23, DD10, DW12a, DLW18, Fie95, FSWX22, Gro99, HPV84, HPV88, JGK79, KMRS89, KR07, Kyr11, Li11, MZ15, Men22, PBM20, PM22, PA10, Rom21, SC20, Siv06b, SZBW16, SPS15, TC04, Tia05a, YZ14, Zha04b, ZFSX17]. **Moore-type** [CFGM06]. **Morita** [BDvW12]. **morphism** [LCZW19]. **Morphisms** [Har84a]. **Morrison** [SC20]. **Moser** [LN16]. **most** [AVVÁ18, BTT20, BLP12, HLW+21, LZ15b, TWZ16, YHS13, tHK17]. **moving** [GOS22]. **Moyls** [ST80]. **mpletely** [SMBB+15]. **MPW** [Bea83a, Bea83b, Bea84, Mer82]. **MSMAOR** [WL16c]. **MSMMAOR** [Li21a]. **much** [BCT23]. **Mühlbach** [dC13]. **Mullin** [FW73, Gar73]. **Multi** [LLL09, ZZT23, BNKJ22, DM22a, DS23c, SX23, WZ22]. **Multi-** [LLL09, WZ22]. **multi-affine** [SX23]. **multi-block** [DM22a]. **multi-linear** [BNKJ22]. **multi-resolution** [DS23c]. **Multi-step** [ZZT23]. **multiadditive** [Eba92, Fra13, XZ18]. **multianticommutators** [MR08]. **Multicommutators** [MR08]. **multicone** [HLB22]. **multicone-** [HLB22]. **multidimensional** [CLL14, Kut19, Min80a]. **Multifold** [Chu22]. **multiform** [Poo94]. **multigraphs** [BM89]. **multilevel** [dBS00]. **Multilinear** [Ano79b, Ano16b, Ano16c, HFS15, HF18, LLMN20, MT84, Pop22, Sło18a, Sło18b, TT78, Vel21, Whi74, Whi75, Whi79, ADRP14, AADD18, AP17, BD22a, BT17, Cam14, Car20, CG22, De 82b, DV19, Erd22, FU20, GP22b,

Guo20, HKv23, Heo16, HJ19a, HJ19b, HJ20b, Hor04, How80, Lim00, LT22a, Oge94, Pam87, Pat83, Pat17, PR12, PSS15, Pie74, RSPT17, SDL10, WLB19, Wan19c, WW01, Wit11]. **Multilinearity** [Fon92, DF87, Fon89, LC83]. **multipartite** [JKY23, KS93]. **Multiple** [HH14, AAPR19, Cam14, HZXL15, JS08, JSW09, LW08, NASR19, Pop20b, Rad16, RSPT17, Yin21, ZX10]. **multiples** [GKLR82, Tho86a]. **Multiplication** [Bre12b, De 75, MO94, Wat85a]. **Multiplications** [FDLB20, Bun94, Tur16]. **Multiplicative** [BD12, BC82, CQ22, Che03b, Ger74, LR04, QZ16, AGAG96, CZ23, DLW18, Est80, Hil17, MID17, MZ15, Poo17, QH11, YZ14, ZFSX17]. **Multiplicatively** [AA21a]. **Multiplicativity** [New94, Pro95]. **multiplicities** [Da 05, GMV18, Uhl99]. **multiplicity** [DIJ23, JD99, JLS09, JLDS12, JST18, LHH18, TJ21, WWWT22, XW22a, XLS20, Yu14]. **multiplier** [AS20a, PN22]. **multipliers** [GNO20, JK10, Liv94, Mej19, MAT22, SA17, Xia20]. **multipolynomial** [Vel21]. **multisplitting** [CLW21, ZV19]. **multivalued** [AFM13, Amm18, Gar23]. **multivariable** [MMR07]. **Multivariate** [Bah22, Par78, Chu22, HHSY22, HSW19, LLC22, SK15b, ZL17]. **multiwavelet** [CJ12]. **multlinear** [Mer92]. **mutual** [CP16]. **mutually** [LHS+21].

N [BMD87]. **Nagata** [Koh11]. **Nagumo** [FP17]. **Naimark** [HT10]. **Natural** [GHL16]. **naturally** [ACO21, CCGO11]. **near** [BGLSSS20, DH20, HCS19]. **near-vector** [DH20, HCS19]. **Nearest** [Rum97, SRK22]. **Nearly** [BB15b, Kim13, GSS09, Har87, Sha91]. **necessarily** [LD19]. **Necessary** [Gue17, HB83, PH03, SQ15, AW07, Wan82]. **negative** [Ano79b, BGGS17, CCU21, ELG88, GA20, GR14, GP96, JKS79, Józ15, Kan94, KS17a, Koz17, Pul75, Rau18, RS74, Rou98, Shi15a, Smi74]. **negativity** [Aud15, HS12, NS22]. **neighborhood** [CSCH01, Sin81b]. **neighbourhood** [LZ14b]. **neighbourhoods** [GHV99]. **Nekrasov** [GLL18, LLGL16]. **NEPS** [Ste05, ZLZ20]. **NEPSes** [FKS22]. **nest** [BHD10, BHD11, JQ15, KZN22, LF13, Liu16b, Liu19]. **nested** [KRR18, MRT12]. **network** [CW91, FHZ17, Li85]. **networks** [CLX22, CMM17, CMM20, GY22, Uhl20]. **Neuberger** [Đok75, Pat08]. **Neumann** [AC21, BD12, BH13, CC23b, CAP20, Drn13, FA19, HZXL15, JQS13, LLF14, LJ11, Liu15, Liu16b, Liu16a, NZK21, Pas15, San18, TRD16, WJ16, YF18, YZ20, Zha16a]. **Neural** [Uhl20, GY22]. **neutrality** [JSE90]. **Nevanlinna** [CH12]. **Newcomb** [Raw81]. **Newman** [Lei83]. **Newton** [KK16, PLPC19, SvW14, ZL21]. **Nichols** [AG18]. **Nijenhuis** [ZLS22]. **Nikodým** [GP22b, HJ20b]. **Nill** [GV89]. **Nill-polynomials** [GV89]. **nilpotence** [LHbL+15, MO91]. **nilpotency** [Xu15, dB14a]. **Nilpotent** [GLdS22, OR09, Rom20, Sou92, Ano22b, BL10, BV92, Bot94, BC17, CR15, CKKK22b, CN14, Chi22, Fur08, GW12, Joh22, JN22, KPPV18, KK22b, LCL14, Mar18, MO93, Nir11, Obl12, OWX09, PN22, Ric78, Rom89, SN22a, Smi76, Sul08, ST97b, Tow22, Wan79, WL20a, YD14, YBCW96, Yu96].

nilpotents [CCL21, CG19, Rob77a]. **nilradical** [ACO21, CLOK13, KLO14]. **nilradicals** [ACO21]. **nilspaces** [Oml14]. **nivellateur** [HP18]. **nnd** [YZL22]. **No** [ZCY22, DKK+20, LPS21, TT78]. **node** [lWpW14]. **Noetherian** [PRA22]. **noise** [DMV18]. **noise-free** [DMV18]. **Non** [Ait19, DM20, Das17, Fošo5b, HH16, KS09, LLF14, Mas10, PSW18, TRD16, ACO21, Ano79b, BL10, Bal18, BBM20, Bre15, CCU21, CKR18, CKR21, Cho10, DH17, DP09, DM18, DZ22, GA20, Gha12, GP96, GLS16, GM21, Hou09, Hua22c, JKS79, KS22a, KS23, Kan94, KK22a, KADM10, Koz17, LPS09, Lim10, MM11, MF77, MR12, Mar12, ME18a, ME18b, NY21, Nir11, Pal79, PG22, Pul75, Rau18, RS74, Rom22a, Rou98, STME10, SR17, Smi74, Spi00, SDL10, Vei82b, WYM11, WZY22, WL22, dLMO17]. **non-abelian** [CKR18, CKR21, Nir11, STME10]. **non-absolute** [DH17]. **non-alternating** [WZY22]. **non-autonomous** [MR12]. **non-bipartite** [GLS16, KS22a, KS23, dLMO17]. **Non-commutative** [Mas10, DM18, KK22a, Mar12]. **non-convergence** [BBM20]. **Non-degenerate** [Ait19]. **non-diagonalizable** [PG22]. **non-distinct** [Vei82b]. **non-empty** [LPS09]. **non-equivalent** [Hou09]. **non-Hermitian** [Hua22c, WL22]. **Non-homogeneous** [PSW18, ME18b, Rom22a]. **non-increasing** [Cho10]. **non-integer** [GA20]. **non-Lie** [ACO21]. **Non-linear** [DM20, Fošo5b, HH16, LLF14, TRD16, ME18a]. **non-negative** [Ano79b, CCU21, GA20, GP96, JKS79, Kan94, Koz17, Pul75, Rau18, RS74, Rou98, Smi74]. **non-nilpotent** [BL10]. **non-perfect** [DP09]. **non-powerful** [MM11, WYM11]. **non-primitive** [GM21]. **non-round** [Spi00]. **non-scalar** [Bre15]. **Non-singular** [KS09, SDL10]. **non-threshold** [KADM10]. **non-trivial** [Gha12]. **non-uniform** [SR17]. **non-uniqueness** [Bal18]. **non-unital** [NY21]. **non-vanishing** [MF77]. **Non-zero** [Das17, DZ22, Lim10, Pal79]. **nonabelian** [CFL22a, Mah82]. **nonassociative** [Lud19]. **nonbinary** [KP92]. **noncanonical** [BG86]. **Nonchordal** [GLP92]. **Noncircular** [GW12]. **Noncommutative** [Yu96, Gut01, KW21, Nas74, Sha18, dPN81]. **Noncommutative-nilpotent** [Yu96]. **noncommutative-spaces** [Sha18]. **noncommuting** [FW86]. **Nonconvexity** [Sol97]. **Noncorona** [AHJ21]. **nondegenerate** [CH12]. **nonderogatory** [FW13, Laf78]. **Nondifferentiabie** [Beb86]. **nonegative** [EM73]. **Nong** [Uhl13]. **nongraded** [GPW22]. **nonincreasing** [CL01, Loe93a, Loe93b, Ore19]. **nonintersecting** [AST05, Che22a]. **Nonlinear** [BBEL18, BEH19, BH13, CM19, CW11b, CX12, CW12, CW16, Cos21, FZ17, HZXL15, JLZ12, QC23, Wan17a, XW12, YZ20, Yan21, Zha16a, BH16, DWL14, ESH23, HBP18, HM18, JS20, JZ22, LM22, Liu22a, MK16, ME21, PLPC19, Sad23, SLUG04, ZL21, KA19]. **Nonnegative** [Bak84, BN88, CBQW19, Che92, DS16, JGK79, JT03, Lew77, Shi15a, SB03, Zha04c, AAJ12a, AJL18, AAJ12b, BS92, BS17c, BP74, BC94, BSS12, CP81, Cro18, DJ98, DJK08, DCLW19, Els78, EJD88, FW07, FJ15, FLS88, Gar85, HJP17, Har94, Hav88, HK92, JS84, JGS90, Joh75a, JP17, JMP17, JMS15, KSMB16, Kir11, KNX93, KNX95, LEH96, LLC21, LZ17a, LLGX22, LL78, LS21b,

Mel13b, MV91, MS12, NST91, Rea96, Rod81, Roh06, Smi05, Sou83, Sou03, SZWB16, SPS15, VM07, WWW20, WS23, Wim85, Xu93, YSY17, vBW95]. **Nonnegative-definite** [Zha04c]. **Nonnegatively** [LS10]. **Nonnegativity** [BFI22, HRT15]. **nonperiodic** [CKN95]. **nonpositive** [FJ15]. **nonpowerful** [GSS09, SSG12, YMYS13]. **nonprincipal** [Loe87]. **nonreal** [EJ91, Esc93]. **nonregular** [Gil12]. **nonrelation** [Tho88]. **nonself** [FJS14]. **nonself-adjoint** [FJS14]. **Nonsingular** [AEdF13a, AEdF13b, BY76, BNP06, CL22b, FJ09, HT10, HXL16, IS15, JT95, Liu18b]. **Nonsingularity** [BLZ10, BSÜÖ13, ES98b, LWB11b, LCL22]. **Nonstandard** [Ore19]. **nonsymmetric** [BJ94, BT07, BSO17, SW22]. **Nonuniform** [BV16b, BV16a]. **Nonzero** [CL86a, CL86b, DF90, CM07, Cro18, Fri12, GGH22, GG22b, KMOV07, MY12, TDL18]. **Nordhaus** [Das21]. **Nörlund** [CW10, TD14]. **Norm** [AHK19, BDK21, DHHK23, Du10, Fla74b, FSWX22, FSY16, Gha21, Joh14, Liu22b, Neu74, Sed04, Sha18, SA10, ZMCN19, ANK22, AE10, AA12, BJZ13, Bou06, BKMMG22, CL17a, CD21, DO19, DM87, FM21, FH73, Gar75a, GAMA23, Gil93, Gil17, Gog21, Han17, Hia94, HM78, JKL22, Joh77a, JLL88, JN90a, JN92, KL95, LTT84, Lon83, LSZ86, Luo19, MO94, MR19, Oku91, Oku93, Pat09, Pep19b, Pre85, QHB22, Roh00, RF19a, Sai21, ST73, WLZ22, WZ23, YSK15, YL11, ZFSX17, Zou12]. **Norm-parallelism** [ZMCN19]. **Norm-preserving** [Liu22b]. **Normal** [AP04, BD94, Far94, GW04, JMS15, KL15, LMMR01a, New94, Arm17, AY95, BT08a, BK17, BD88, CDM22, Cha96, CN05, CM22, Der83, Epk89b, Epk89a, FX12, FJ22, GR91, GR93b, GRMA13, Hua90, IH11, KLS08, Kun99, Li98, LMMR01b, LL22b, MRT16, MV75, McC85, MZ91, NTU93, Pro95, QK92, Rad12, RRN22, RRN23, RW21, STZ94, SPK15, WZZ22, Woe97, Xu93, YC19]. **normal-preserving** [Kun99]. **Normality** [Ikr15a, WW20b, BFM20, Kit91a, LST89, Man92, WZ95]. **Normalized** [Are22, DP17, JT04, SD20, But10b, CL17c, GLS16, Hun83, IAM23, JP87, KP22, LLF08, PLLL20]. **Normalizers** [Luk74]. **normaloid** [BK21]. **normed** [KT83, Ng14, Pan15, Pas15, RS23, SRT22]. **Norms** [BKL02, HWL92, LT89b, OW02, So90, AGAG96, AG96, Bar76, Boz98a, Boz98b, Boz99, CW11a, CFZ23, CM15, DLQ18, Gol87, Gro17, Hem93, HJ87, HMN91, JL88, JN00, LT87, LT89a, LT90b, LT90c, Li91, LT92c, LLW07, LPT11, MS83, MSO83, MKS84b, MC89, Mar92, MM07, Mel22, MQ21, Mer78a, Mer81, OvdD77, Que08, Rho94, RF19b, RSPT17, SAV01, Sol06, TD14, Tal17, Wan17b, YLC19b, ZHH09]. **notation** [Car06]. **Note** [Ano73, Ano82d, Ano83k, Ano84d, DSD83, DS02a, HHC12, Lau81, lLpW16, LY22d, LHGL22, Mar82a, Mir81, Sam78, Tam85, TNJ22, AA21b, Ala18, Ala20, AAPR19, ABJ16, Ano82e, Ano83l, ACMS10, AOTR11, AZ22, Bap91, BOvdD91, Bar12, Ben90, BZ00, dAB17, dAB21, BH15a, But10b, Cha18, Cha83a, Cha84b, Che22b, CTW15, CKL16, Da 05, Da 88, Düf97, Els78, FGK23, For79b, Fri12, Gol89, GJMW86, Gum15, Gur79, Gur92, Har78b, Har81b, HWY17, Hug90, Jaa22, JS96, JS20, Jon92, KP11, KT95, KJ13, KKR12, KK18, LHP75, LN80, Li84, LP00, LPWX10, Lim79b, Lim15, LGB17,

LL78, Mal89, Mal92, MS89, MR13, MM09, Min82b, Moo76, MOGN18, Mos15, MAM15, New78, OvdD77, dSP17, PR20, PSB23, Pri78, Pul75, RR95, San14, SGM22, SP87, TKT19, TXC08, TT78]. **note** [Til98, Uhl82, Vin06, WfMR16, Wan18, lWY19, mWyD11, Wei93, Wör20, WL16c, XQ16b, YZ14, Zha16b, Zou20, dCH21, vBW95]. **Notes** [Ami11, Cha83b, Joh75a, Wan16d, Zha89, LS21b, Mar92, Sim95]. **notion** [MS12]. **notions** [Hou09, SS22]. **novel** [ADJAH22, Dag23b]. **Novikov** [CKKK22b, DU21]. **Nowhere** [AGM13, AGS20]. **Nowhere-zero** [AGM13, AGS20]. **NP** [Roh00]. **NP-hard** [Roh00]. **NPHSS** [CL22b]. **NSSD** [FS18a]. **null** [BT13, Bea85, CLOK13, JVMCPR19, KKL20, KLO14]. **null-filiform** [CLOK13, KKL20, KLO14]. **Nullity** [Wan21, BS22b, FDD14, MW15, MF20a, zSqSZ16, WLM21, WL18b]. **nullspace** [AGS20, BC94]. **Nullspaces** [TMOvdD93]. **Number** [NW02, AEdF13a, AEdF13b, AYC93, BS21, BC05, BBG22b, BS16, Ben74, BRL22, BT15, Cha96, CHL18, CH22a, CFLL23, Dat80, DIJ23, DH16, DdF15, Epk89a, FMSS19, FS14, FLZ07, FGK23, HLB20, HHY22, Kir00, KK90, KS17a, LLW$^+$11, LT12a, LC14, LZZ17, LZX19, LS21a, LY22b, LL15, LLGX22, LY22d, MW18, MF20a, Mau78, MP13b, Ota13, OWTZ21, Pat83, PGLM00, Rem82, RW84, SM22a, SYZL17, SS96, Son22, SMS15, SD20, TW19, WW20a, WWZ20, Wan21, WWWT22, WL20b, WL18b, WL23, XW19, XZS19, YK22, YWZ21, YS23, ZXL22, ZZ15]. **numbered** [Gut22]. **numbers** [Dag23b, EB17, FW07, Fer09, Haw05, Hou09, HLZ05, Ilk20, Kar23, LL17, LM19, LZS23, Ogu20, Ost74, RRC23, SRT22, SLW21, TB01, WWS19, Wu09, Wu22]. **Numerical** [AMP02, BB22, BDK09, BB15a, BD94, BdP98, BLdPS04, BKS21, Ber02, BBP21, BM17b, BM18b, BS04, CW17, CN04, CN14, CL00, DTSI15, DvE20b, ERS12, Far02, GW98b, GW04, GWW15, HZX22, HL21, Joh75b, KL21a, LN98, LŠ02, LS04, LR04, MM07, MBB22, Sed04, haYsS99, Abo20, AS11a, AAK16, ADJAH22, Alo21, AM21, AYT83, AY84, AY95, AyT84, ALP94, BM22a, Bal80, BDK21, BD88, BLD91, BL92, BD96, BdP12, BdPN14, BBK22, BHK21, BP22, CRW21, CDM22, Cha92, Cha93a, CC14, Cha18, CLP22, CGW14, CL17b, Che94, CL94, CT96, CT09, CL13, Che14b, CL14, Che16, Che17, CM15, Chi98, CNP05, CN05, CNP06, CN07, CN08, Chi11, CN15, CGL$^+$16, CLN21, CH10, CGHK08, CKP09, CLMR09, CF23, Cro08, Da 94, DHKSH08, DvE20a, DM14, EDKA07, EM15]. **numerical** [FT87, Far93a, FMZ22, FNBR96, FHL$^+$14, FL16b, GW08, GW12, GWW16, GS21b, GS21a, GTZ75, Gol79, HH16, Hu89, HT91a, HT91b, Hug90, IOMA21, IOMAN21, JLL07, JL88, JSG94, Jon92, JNBR93, JR93c, JR94, KV23, KPL$^+$09, KP14b, LLS14, LLS16, Lei91, Lei92, LT92a, Lei93a, Lei93b, Lei95b, Lei95a, Lei98, LTT84, Li87c, LT88a, LT88c, LT88b, LT89b, LT91, LT92c, LMR94a, Li94, Li96, Li98, LŠS01, LZ01, LPS09, LT09, LPT11, LWC22, LP16, LP22c, LP22b, Man87, Man91, Man92, Mar75, MF79, MS79, MW80, MS82b, MS85b, MP87a, MS87, MR97, MP98, MM09, Mel22, MQ21, MZ23, MS21b, MS15b, MS16b, NNT95, Oku93, OM21, Pep19b, Poo80b, Poo94, PV00, QHB22, Rod08, RW21, RS08b, RSM21, RSM22, Sab19, SM21, SRS21, SA07,

ShDHG08, ST80, STZ94, ST96, Spi00, Sza09, Tam85, yT86, Tam88]. **numerical** [Tam94, Tam98, yT00, TS19, Tho80, Tho87b, TGW14, Tsi83, Tsi81, WZD16, Wes75, Woe08, WC12, YLC19a, YLC19b, YC19, Yua98, bPFZH08, ZHH09, vD96]. **numerically** [DS23b]. **Numerous** [SG18].

Objects [NW02, LN10]. **oblique** [BT13, GT98, Gro99]. **observations** [Egg95, Sma17]. **obstructions** [Kar90]. **occurring** [JWP98]. **odd** [AM13, AP23, BBG22b, SSfW15]. **odd-bipartite** [SSfW15]. **Off** [DHS95, DW23, WC12, Zab89]. **Off-diagonal** [DHS95, DW23, WC12, Zab89]. **Olga** [Sch77]. **Oliveira** [BMD87, GLS13]. **Omega** [Net22]. **One** [Bre17, CKKK22b, Cha84a, LW23, ZWW22, ZWM23, Ab23, AVVÁ18, BHD10, BLP08, Ben90, Bén11, dAB17, Bot87, BM16, Cat21, CCL21, Cho10, CL01, CAP22, DH16, Ell95, Esc93, FT21, GMV18, Gur79, KS82, LL16a, Lim90a, LZ15b, MO22, MMRR16, Ore19, Shi15a, So99, SKP18, SH92, TNJ22, WL18a, WM21, Wat85b, YLW22, ZS05]. **One-generated** [CKKK22b]. **One-matching** [LW23, YLW22]. **One-parameter** [Bre17, MO22]. **One-sided** [ZWW22, ZWM23, WM21]. **ones** [HLZ05, Liu92, Wan05, Wu09]. **only** [MO91, Ram22]. **open** [CFSRL22, dF11, dF13]. **operads** [Bre17, BSO17]. **opérateurs** [Del94]. **operation** [Bre14, YW19]. **Operational** [Rom82]. **operations** [Cir15, Joh11, LZ15a, MN04, YGZC22, Zha14a]. **Operator** [CW11a, Dra19b, Dra21b, DH03, Far02, FZ21, Gus94, JKZ20, JC22b, KJF23, LL20, LB21, MŠ02, RS85, Tal17, WZ14, YSK15, Ab23, AKR23, AAP82, ADJAH22, ASR22, All14, AXH15, AO97, Anj17, BHC16, Bak16, BM19a, Bal22a, BDK09, BJS15, BD84, BBP21, BP22, BH16, Bou13a, BC20, CKGP21, CL91, CDJ13, Che14a, CL17b, CNUV16, CC18, CIP17, CIP18, Cve18, DMT21, DD10, DCIW10, DV18, DD12, DC20, DC23, DW23, ESAJ18, FJS14, FTGSNV22, FH15a, FJK98, FMS19, GR23, Gha21, HC14, HH22a, HS81, HSW19, HOT15, HQ18, HZX22, Ikr15a, JE21, JKH20, JX13, KS14b, KMS18, KD16, KMS21, Kit91a, KK13, KL19, KL22, LY22a, LM85, LWC22, LS15, LD19, LFY16, MO94, MM20a, MM20b, MGH19, MF20b, MFS22, Mos19, NY23, Nik22, PSA14]. **operator** [PSMA16, dSP16b, Pep19b, Rad16, Raï14a, Raï14b, Raï19, RSM22, SRT22, Sed11, SR17, SG18, Son14, SY23, TR21, TD14, Tom22, TRM22, WHL22, WHC22, XQ16b, XSH18, Yu14, ZZ16, ZHH09, ZZZ16, dPN81]. **operator-eigenvector** [Che14a]. **operator-entried** [dPN81]. **Operator-norm** [YSK15]. **operator-valued** [GR23]. **Operators** [BLdPS04, Ber02, DS02a, DKK19, GW17, HT91b, JKZ20, MŠ02, Pop20b, Sed04, SB03, AN19, ADRP14, AR22, AGV19, AAPR19, Alo21, Alo23, AHK19, AFM13, Amm18, AP17, AO22, AFA22, BK21, BHD10, BM15a, BFM20, BN22, BDK21, BP89, BP90, BP92, BL93a, BdPN14, BM22c, BO22a, BLZ11, BHK21, BP22, Boa13, BJZ13, BPR14, BT17, BCM18, Bou18, BE22, BM15c, Cam14, CW81, CDPS23, CQH15, CL17a, CZZH22, CN05, CGL$^+$16, CH10, CF23, CGM19, CIN15, CM22, DH17, Del94, Den14, DLD21, DLD22,

DV19, DKY22, DM13, Dra10, Dra11, Dra16, Dra18a, DK21, ER22, EAM19, Erd22, Esh17, Fan83, FMX18, FNBR96, FJK22, FMXZ22, Fur08, GT14, GLX22, GGGA21, Gar23, GCSC20, GR81, GW12, GJR22, Gil16, Gog21, GR91, GR93b, GG22b, GHL20b]. **operators**
[GBM21, GC22, Han17, Han19, HMK22, HBM15, HH16, HX21, HL21, HKS94, ISCS11, IOMA21, IOMAN21, JS19, Jac79, JKH20, JKD16, JX13, JKL22, Jon78, JS15, KN22, Kan16, KKL22, KKL20, KDHJ22, KKY22, KP92, Kit91b, KL15, KLL22, KLS08, KK22c, Kut19, LLMT05, LŠ96a, LŠ96b, Li87c, LT88c, LT88b, LT90b, LT90a, LT90c, LT93, LM93, LP93, LMR94b, LŠS01, LZ01, Li11, LPT11, LD19, LS17, LGG19, LW20, LPX23, LB21, Luo19, MCL20, MSS13, MPD22, MDP22, MF79, MŠ09, MZ91, MP18, MP19, MN12, Mos20, MM22b, MBB22, ME18a, ME18b, ME21, Ogu20, Oi20, OM21, Orl18, PSS15, Pep11, Pep19a, Pep19b, Pet10, Pop17, QLK22, QHB22, RT09, RS85, RRN22, RRN23, Rao18, Ras17, Ras19, Rho94, Rod08, RF19b, RF19a, RSM21, RB22, RSPT17, SPMR20, Sai21, Sam78]. **operators**
[SES21, ST19, Sed11, Sha18, Sha20, SA10, SHC22, Shk12, SAK22, Suc22, TH14, TD16, TD19, Tan13b, TMH21, UB22, Wal79b, WD17, WTD22, WZZ22, Wil81, WZ22, WW20b, WC12, YK22, YC19, ZMCN19, ZZ16, ZZC17, ZZ00, dBS00, Ano22c]. **operatorwise** [DKK$^+$20]. **Oppenheim** [LP22a]. **optical** [FP17]. **Optimal**
[AP17, CC23a, dBS00, BGV11, Blo95, CHFC19, DS23b, Igl99, Knu85, LN10, NW02, PSS15, SS79, Sha91, Sma17, Ves80, lWpW14, WM84, XJS20]. **optimal-node** [lWpW14]. **optimality** [CPKK22]. **optimally** [LOO22]. **optimization** [BLX18, SW22]. **orbihedra** [ZZ00]. **orbit**
[CHZ22, Far90, Koi21, LT89a, LP22c, LP22b, RS07, Zha01a]. **orbit-closed** [LP22c, LP22b]. **orbits** [CQ18, DRW93, GS19, LPS08, LT13]. **Order**
[AAT17, KW17, Peñ02, vBW95, ACMS10, jAS15, jAS21, BS21, BTT20, BS18b, BH13, BH16, BMGMC16, Cam83, CNW21, Car20, CQW16, CJ12, CDK22, Cir15, Cir16, Cir17, CC22b, CGM19, CM07, CCLN16, CIN15, CID16, CIM19, DTSI15, DLD21, DD14, ĐL92, Đok93, Đok09, EM95, FTZ08, FF21, FM22b, FP17, FJK98, GLX22, GG22a, GG22b, GZY18, GHT16, HWX22, HS83c, HSX16, HSM17, Hil07b, HK10, HFSZ22, Jin17, JKB17, KMS16, KS17a, Kre16, Kri87, sL19b, LPT14, Leg06, LS22b, LW08, LFY16, LZB23, MRT14, Mat90, MWC22, Mit92, MB22a, New80a, PBM20, Rad16, SWL13, Slo14a, Sta15b, SF17, Tos79, TRM22, WL18a, XQ15, XQ16b, XSL15, Xu18, YLX20, YJ21, YCZ21, ZX10, ZCP17, tHK17]. **order-** [Sta15b, SF17]. **ordered** [Leg06]. **Ordering** [GZ22b, Har78b, OST20, WL15, WC15]. **Orderings** [MP16b, Gro97, Hey88]. **Orders**
[Mar18, And96, JS15, MRT14, Mar15, MRD15]. **ordinary** [ZG08]. **Ore** [BZ22b]. **Oriented** [MR19, CT16, Gon17, Sta22, Tik22, WLF22]. **orthant** [Mar92]. **orthant-monotonic** [Mar92]. **Orthochronous** [Les93]. **Orthogonal** [BD97, GP14, GK02, GGW76, HMR22, Hol95, HK13, Hor04, HZ21, Koi21, Lop11b, Per17, ySpW22, SZ19, Sri20, BT11, Bas17, BBM15, CR22b, CH87, DP00, Đok09, DWCD19, Ell95, FM22a, Gal08, GAGM18,

GZ99, GHT16, JWP98, KW92, KMP+19, KLS08, LM93, Lim01, Mal95, MRT12, MGAH19, MR08, MAH18, MAH21, ME18a, SM19, Sta23, TL12, Vin06, WG91a, Xu18, Zha01a]. **orthogonalities** [TAK22, WZ23]. **Orthogonality** [AO22, BM22b, DS02b, Gro17, Hol04, RŠ06, RŠ08a, RB22, WZ22, AR15, AV22, BBK22, CP13, Fan88, FMZ22, GP14, ME21, Per17, RŠ09, RS23]. **Orthogonally** [AGV19, RS17]. **Orthonormal** [KCBR87, LZ01, MC86, WG91b]. **orthostochastic** [PT87]. **orthosymplectic** [Lee94]. **oscillatory** [CP97]. **Osima** [HK16b]. **Ostrowski** [Mar76, QLK22, She77, WWW20]. **Ostrowski-type** [WWW20]. **other** [BY76, Bar07, BSS12, MRT14, Pie92c]. **otherwise** [Bal78]. **Oussa** [Ano16c]. **Outer** [KM14, SPKC15, SĆK+20, AB17, Boa19, FLT20, KCSĆ21, LMR94b, LYZW12, MW22, SMM22, Tia01, TS05, YHS13, YGW15]. **outer-planar** [YHS13, YGW15]. **outerplanarity** [Vo83a]. **outindependent** [FG06]. **outputs** [GOS22]. **outstanding** [Joh82b]. **oval** [Mel13a]. **Ovals** [Mel12]. **Overgroups** [Gur97, GL97]. **overlapping** [Vei83b].

P [JT95, TT74, XCC99]. **P.** [Fie84, Zha95]. **P.I.** [CV94, Di 88, Per15, Reg93]. **packet** [Far17]. **packing** [DWL20]. **PageRank** [Guo20]. **pair** [BT13, BZ90, DKY22, GC22, Han21, IS16, LD17, TT06, Uhl79, WZH13a, WZH13b, WLW23, You15]. **pairings** [Yuz84]. **Pairs** [BG86, Do 96, Rod08, SB03, Tau74, Aln11, AW13, AO22, BJS98, BZ99, Bea78, BDD23, Cal97, Cal99, CLW15, Che17, CDK20, Dod13, Dra23, Fer10b, FKKS11, FXY22, Gal08, GP06, GTM14, Gur79, Gur92, HZG14, HZH20, KHG13, KC16, KKY22, MP21, dSP22, Pet00, RBB22, SH98, Uhl82, WHG17, Wat77, ZLS22]. **pairwise** [PP22]. **palindromic** [PM23]. **pall** [Adk95]. **paper** [Mar82b, Tam85, lWY19]. **parabolic** [CW11b, CX12, CW12, CY22b, Den05, LCL13, Sch79, WY11]. **paracontracting** [WC16]. **parafermion** [LY22a]. **parallel** [Ber17, Dji16, FMXZ22, LSX19, WTD22, You15]. **parallelism** [TAK22, ZMCN19]. **parameter** [Adh13, Bre17, CGH15, Hua22c, MT22a, MO22]. **Parameters** [Rod02, GLLM21, Koo95, LWL21, PLLL20, XSW22, ZL22]. **parametric** [DM22c, HMAD13, Ska17]. **parametrization** [AG15]. **paraphrases** [Leh91]. **Pareto** [AS17, BS21]. **Parity** [ASZ02, TI77]. **Parseval** [CC23a]. **part** [CS21b, Dic84, Dru15, JN80, Joh84, JL91, MAH21, SU77, Sil99, ST96]. **Partial** [HS83b, Tia02, BMGMC16, Cal94, CKGP21, CMM20, Cho18a, Cho18b, CKS20, CM85, Cir17, Cla92, DD10, FM22b, GWW16, Gro97, GHT16, Har78b, HK10, JR84, JTU00, JS15, KMS16, LPT14, MT22a, MRT14, Mar15, MRD15, PT10, SM23, TSYB82, WL15, WC15, WL18a, WCS+21, Woe93, YJ21, ZCZT22]. **Partially** [Bal18, CC17a, Leg06, Sil95]. **particular** [BS15a, BCdHP10]. **partite** [Shr90]. **partition** [Ati20, BX11, DF87, FTA20, Fon89, YZB22]. **partitioned** [FL16b, JMP17, MT22a, YLC19a]. **partitioning** [AMK23]. **Partitions**

[Kes83, PM81, PM85, ST97a, Chu90, Cla92, Cve95, Fer09, Fon92, Hey88, IK22, RW84, SS12, TOM88]. **Partly** [MOvdD90, McD92b]. **parts** [AS12, CB22, GW17, GHK16, Ha89, KL22, Pal79, PP22]. **Pascal** [AFVL00, CKM18, CKMY22, TB01, ZAK22]. **Pascal-like** [ZAK22]. **passage** [HWX22, KN00]. **Path** [DP98, JS99, AAGL22, Guz88, Hou17, RP90, SRD19, Wan21]. **paths** [AST05, KMP+19, RW84, Ste94b, WSH+11]. **pattern** [Ach77, BJS98, CHK00, LLS10, LLL09, LCL22, MM11, Mer83a, SM94, WYM11]. **patterned** [NU94, vR11]. **Patterns** [MOTvdD03, BJS98, BM12, CJ97, Cav10, CJ20, CM07, EJ91, Esc93, FHL+13, GGH22, GS01, GS06, GSS09, Har91, Har95, HS93a, HLOvdD20, JL93, JWP98, KMOV07, KOvDD09, KMT96, Kir11, LGA+13, LHbL+15, Ma15a, MY12, YMYS13, YHCW14, ZHLZ13]. **Pauli** [MS15b, MS16b]. **PC** [Shc21]. **PC-maps** [Shc21]. **pd** [YZL22]. **Pellet** [Mel18, Mel20]. **pencil** [DKY22, Gou13, LC18b]. **pencils** [Atk91, BY76, DS22a, LL14b]. **pendant** [LT12a, LDL17, WWZ20, WWWT22, WDJ10, XW19]. **pendent** [ZL19]. **Penrose** [BT22a, BST23, Bap97, Boa19, Bom02, BGZW16, CC22a, CHZ22, DK23, DD10, DW12a, DLW18, Fie95, FSWX22, Gro99, HPV84, HPV88, JGK79, KMRS89, KR07, Kyr11, Li11, MZ15, Men22, PBM20, PM22, PA10, Rom21, Rom22b, SC20, Siv06b, SZBW16, SPS15, TC04, Tia05a, YZ14, Zha04b, ZFSX17]. **pentadiagonal** [AdF21, MMG15]. **pentagonal** [Sim83]. **Per-spectral** [ZWL15]. **Perfect** [Are23, CF21, CG16, KMP+19, LCWW22, PB17, TM19, ZLZ20, AFTG19, BJ94, BTT20, DP09, FGHL22, GZ22a, KS22a, LCXC22, Que08]. **period** [New80b]. **periodic** [BB19c, CKN95, CLW15, DdF22b, IOMA21, IOMAN21, Sat11, Sie99]. **periodicity** [MNS22]. **periods** [JKY23]. **Permanent** [BC78, CD03, Hon92, Pat03a, Coe96, DJ89b, Fal97, FS86, GJMW86, Hon91, Hon93, Hu94, Hwa85, Hwa91, HS93c, KS84, Lim79b, Lon73, LM89, MS85a, Mer80, Pat96, Phu80, Sin73, Sin76a, Sin80, Sin81b, Sin84b, Sol97, Sol00, Stu92, lWY19, dF05, dF13, dF19]. **Permanental** [JP87, LZ11b, Pat89, Bap91, BF75, Cha90b, DJ89a, For79b, GHL10, HT91b, Kop94, LT92a, LZ14a, LW22b, Lon97, Mal89, Sou03, WL18b]. **Permanents** [Ach77, AAT16, CCKL20, FW86, For88, HZ03, Kit81, KS76, Pat81, SHC02, SJ02, Wan05, BE90, Bur95, Cal95a, Cha83b, Cha84a, Cha88, DH91, ES73, For79a, FM78, Fri82a, FLS88, Fri90b, Gol92, Gyi78, KS82, Krä87, LHP75, Min74d, Min80b, Min83, Min84, Min87, Pat92]. **permutation** [BG79, Bru79a, Bru79b, CFZ23, EOvdD09a, EOvdD09b, HS81, Hon92, KM19, Mer78b, SS98]. **Permutations** [Cha79b, Kap77, Leh76, LF16, SRW07, Wan80]. **permuting** [CL14, Hol85]. **Perron** [AD17, BOvdD95, BAN12, DM87, EJD88, Fie73, GS83, Har78a, JP17, KNS96, KF98, Lia23, Mel13b, Mey15, Roh06, SPS15, vBW95]. **personal** [Pri78, TT78]. **perspective** [BT11, CDM22, Koi21, NS18, Nik22, Woo22]. **Persymmetric**

[Vei82a, Vei82c, Vei82b, Vei83a, Vei83b]. **Perturbation** [BCM18, CQW16, CLX03, Din00, ĐM79, JKZ20, LYS15, LSX19, LZ22, MMRR09, ZY13, ZZZ16, Ben90, DLW18, Din98, FSWX22, GLS16, JLDS12, KN97, LL17, MMRR16, MZ15, Men22, ST15, SWL13, So99, TXL21, WfMR16, YZ14, ZYL13, ZVL18]. **Perturbations** [Gal03, PG22, ST97a, Amm18, BOvdD91, BCdHP10, BZ22a, Bén11, CC18, DC20, Fer09, Fer10b, KSU22, LS22c, MMRR16, SS12, XS18, ZFSX17]. **perturbed** [BKP01, CTW15, FS89, GTM14]. **Peterson** [GTLN18]. **Petrov** [AP23]. **Pfaffian** [BFM22, CT09]. **Pfaffians** [IW95]. **phase** [FM21, HLY22]. **phase-retrievable** [HLY22]. **Phelps** [DKK+20]. **physical** [HWSH13]. **physics** [BdP98, Da 94]. **PI** [MP21, dSPdS22]. **PI-algebras** [dSPdS22]. **Picard** [CH06]. **Pick** [CH12]. **Pick-type** [CH12]. **PID** [Hua01]. **piecewise** [Kut19]. **Pietsch** [BPR14, Pop20b]. **piezoelectric** [LXQ21]. **piezoelectric-type** [LXQ21]. **pinches** [RRR+22]. **pinching** [PT87]. **Pinchings** [BKL02]. **Pisanski** [Ano16b]. **Pivot** [KMS02, EF98, KMS07, ST08]. **pivoting** [EM95]. **places** [Kir04]. **planar** [CSY18, TZ19b, TWZ16, VDW85, YHS13, YGW15]. **Planarity** [CW90, Blo95, Dic84, Kar90, Vo83c]. **plane** [CBQW19, CM15, Chu90, DS16, MM07, MQ21, Mir09, RW84, ST96]. **planes** [AG18]. **Plethysm** [CRY95]. **Plethysms** [CV94]. **plücker** [CC92, Tam91]. **plus** [Ikr15b, NSW21, Sol06, lWpW14, lWY19]. **pockets** [Bar08, NP15]. **Poincaré** [Bed10, Bed11, BX11, Car90, DF82]. **Point** [Đok81, CL22b, CMM22, CIP17, MHM22, Sch75, Sch78, Wan17a, Zha20a]. **Point-sequences** [Đok81]. **points** [BLP12, Beb86, BS15b, BDK+05, CSS21, CCW20, CJK+13, Gei78, Hon92, KM98, LPS13, LKLC22, MS87, NT91, Rao18, SRBB22, Spi00, TH14, ZX16, ZXL16]. **pointwise** [GJ22]. **Poisson** [BE23, CD15, Kay17, Mar12, YH22]. **Polar** [Jam95, De 08, DP09, Fur08, LMMR01a, Pas16, Pat87, Pat17, SU77, TN22, Ter22b, ZYL13]. **Polarem** [SU77]. **polarization** [GR93a, Vel21]. **Polarizations** [BBT07, Far93b, Wil81]. **polarizing** [Ous15a]. **pole** [CFP10]. **poles** [AMZ13]. **Pólya** [SG18, WW76, Whi79]. **polyhedra** [dlP20]. **polyhedral** [AGP22, MM07, Orl18, Tam77]. **polyhedron** [FS86]. **Polynomial** [AS11a, BP09, Cal03, CGH14, Mel19, Mel22, Red02, SA07, Wat77, dTS20, Adh13, ASAS79, Ami11, Ami80, Are22, BB17a, Bra86, Bre14, BM07, Cal94, Cal97, Cal99, CdSS17, Dat80, Dia90b, DMdO92, Düf97, FZ11, Fie81, FP17, FdSV16, GA85, GdSV16, GMD85, HHC12, HMAD13, IS15, IM18, Iop19, JRMFMASS16, KSU22, KLPK17, Kul22, KK16, LLC22, LB19, Lip98, Lit17, Mel13a, Mer79b, Reg89, SRK22, SS07, Sun20, SK15a, SK15b, Uhl99, WC22b, Wan22a, Wim88, WW12, dO75]. **polynomially** [CM22, Kan16]. **Polynomials** [AP04, Far02, LM85, Mes13, New76b, PT02, Spi76, AS11a, AM13, AS12, AGV19, AADD18, AGZ00, BS15a, BCR91, BD22a, Ben74, BH74, BG21, BO22b, BG79, BMP10, BPR12, BPR14, BD13a, BP18, CC17b, CNP05, CNUV16, CR22b, Coh88, DP98, De 90, FMSS19, FGMSS19, FW73, Fit94, GAGM18, Gar73, Gar79, GV89, GKLR82, GLR82, Gór22, HHSY22,

KMP+19, KS07, KK90, KLPK17, KML95, KLZ96, KL92, LRT91, LZ14a, LT22a, LW22b, Lon73, LT07, MW74a, MF77, MR97, MP98, Mar90, MRT12, MGAH19, Mel18, Mel19, Mel20, Orz84, Ota13, Paz84, PR12, Per15, PM23, Pie92c, PV00, Rei77, SA07, SX23, Sil88a, SS96, Sil98, Sla16, Soa08, SL95, Sra20, Tie16, Tre87, UG21, UF22, Vel18, Vel21, WLB19, Wan19c, Wat86]. **Polytope** [SHC02, Bru85, BD13b, Hwa85, LZZ17, dF11]. **polytopes** [CCLL22, CCW20, Har91, Sie99]. **Pommerenke** [Bol12]. **Poncelet** [CN04, Mir09]. **Pontryagin** [Sin83]. **Popoviciu** [MM22a]. **populations** [Pan20]. **porism** [Mir09]. **portions** [CN08, ERS12]. **portraits** [LH22]. **posed** [BHM76]. **poset** [Fošo5a]. **posets** [AST05, BC91, KC16, Ste94a, WW01]. **posinormality** [BM22c]. **Positive** [AB22, BBP78, BR01, Cha90a, CIDK07, DH03, DWL14, Grz91, Hil07b, KRR18, ANK22, ARK22, AS20b, AGP22, AG15, AO78, And96, AB19, Bak84, BSM98, Car19, Cas23, Cha92, Cha93a, CKS20, CS21b, DM17, DM20, DHHK23, DPP17, DH86, DM13, DGJ+16, DJ89b, DJL94, DJ98, Dru15, DN18, ER22, ESH23, Fan73, Fan92, FW07, Fla75, FH15a, FLT22, FG22, FS15, FSY16, GT14, GP22b, GMZ11, GJMW86, GLP92, HK16a, Har78b, HJ19a, HJ19b, HJ20b, HS88, HNS99, Hil07a, Hil11, HBP18, HM18, Hua22c, HM95, Ibr00, JP15b, JN80, JOvdD84, JP87, JR09, KMS18, KMT96, KL22, Koh11, LS10, LSOvdD95, LM96, LP11, LT11, LT12a, LL16b, LF16, LP22a, LL14b, Lia23, LW12, Liu22b, LSX19, Mai11, Mar13, Mat92, MK16, MP16b, Mol15, MOGN18, Mou22, NMAB22, ND13, NY23]. **positive** [Orl18, Pat92, Pep19a, Pep19b, PV20, SH21, ST94, SM94, SMBB+15, SM22a, SBMP16, SL17, Sun20, TZ19a, TZ21, Wal79b, WZD16, WCS+21, WL22, YH05, ZX16, Zha16b, Zha20b, ZL21]. **positive-partial-transpose** [WCS+21]. **positively** [NS85]. **Positivities** [WLX16]. **positivity** [CC98, FJM00, JNT96, YHCW14, vE22]. **possess** [PP16]. **Possibilities** [SS96, JR84]. **Possible** [FW07, HLZ05, JL91, Wu09, BF96, Uhl13]. **potent** [BT06, BT08b, BLZ10, Den14, HLZ11, McC85, Pab22, Rom19, Rom20, Rom21, Rom22a]. **potential** [HMO11]. **potentials** [HMK22, KMP+19]. **potents** [Zho22]. **POVMs** [GKO22]. **Power** [CL21, DK21, FJ22, KPP13, MF92, MO93, AFW22, BM07, Bun91, CP15, DS23a, Dre22, Gol07, IAM23, JC22a, JM85, KMS21, KM22, Lei93b, MGA17, New80a, RA21, SN22b, SAK22, Sri20, Tam88, Tan10, TLL11, TLC16, Tom22, XL11, Zha14b]. **power-associative** [Gol07]. **power-compositions** [BM07]. **Power-exact** [MO93]. **powerful** [MM11, WYM11]. **powers** [ARK22, AGR91, Ash16, Aue98, Bou13b, CFL+22b, Coa99, Dru15, FKR93, Fri82b, GA20, Gar21, Gór22, HL20, JGS90, KW21, KK22a, Mcf79a, MV91, MNS22, Mou22, MM23, Pat83, Pok87, Stu89, Tik22, TT18, Vas87, HOT15]. **pp** [Ano16c]. **pr** [MR17]. **pr-** [MR17]. **practical** [WSZL17]. **Pre** [sL19b, DLD21, LW20]. **pre-Lie** [LW20]. **Pre-order** [sL19b, DLD21]. **Preaffine** [DW92]. **preceding** [Mar82b]. **Preconditioned** [BNKJ22, LZ16, WZY22, WL22, ZQZ21]. **preconditioner** [BH23, HFSZ22, XJS20, Zha20a]. **preconditioning** [CP16]. **predictor**

[Chu84b]. **predictor-corrector** [Chu84b]. **Preduals** [BPR12]. **Preface** [Ano16d, BLZ12, CK12, KL11, KL17, KL21a, LRT08, LT09, LPW14, LSS16, ŠTZ15]. **Prehomogeneous** [Ven19b]. **premières** [BC06]. **prescribed** [AMZ13, Bot94, BM89, CM92, Cra09, De 82a, DHS95, DS09, Est80, GPM14, GMD85, Her83, HLB22, KM14, KLPK17, Min84, SRK22, Sil88a, Sil88c, Sil88b, Sil90, Sil93, Sil95, Sil98, Sil99, Tho75a, Tho75b, TI77, Zab89, Zab90, Zel85, dO75]. **presence** [FW13]. **preservation** [PG22]. **Preserve** [Lim90a, SB03, BCN05, BP89, BP92, CL17b, HKS94, JS94, JLL88, JP07, LT88c, MZ91, Slo16a, Wat77, Wat82]. **preserved** [Can80, CKR21]. **preserver** [Ano92g, BLP92, CL01, Hua16, Joh11, MŠ98, ST08]. **Preservers** [BJS15, Ben18, Gur97, HX21, LM03, LS04, LR04, RŠ09, SM22b, SK03, SBMP16, BPS00, BS92, BL97, BL01, BSL01, BS16, BS17b, BS17c, BS20, BS22b, BBEL18, BH16, BMGMC16, CL95, CC14, CL05, CLN13, CLMR09, DRY22, DGJ$^+$16, EBB18, FHLS13, FJZ21, GP14, GL97, HQ18, Jaa22, KS12, KP14a, LL16a, Lau81, LT88a, LT92b, LT92c, LT92d, Lim97, Lim01, Lim10, LT14, Lim15, LRD21, Loe92, Min77, MSS19, Per17, Sin82a, Slo15a, SA14, TZ06, ZS05, Zha05]. **preserves** [Coe96]. **Preserving** [DŠ04, Dol04, Kob06, Zha04b, AN19, AA21a, AS17, AKS18, AO22, BHD10, BHD11, BP90, BL93a, BEH19, BBBS09, BDS13, BS97, BCS18, BH13, Bot79, Bot87, BE22, BM15c, BSO13, BMGMC15, CGY13, Cat21, CCL21, Che14a, CW16, CY22b, CK20, Cos14, DS13, Dol07, DHB07, EAM19, EL90, Fošo5b, FKKS11, FHL$^+$14, FA22, GM18, HH22a, HR85, HS17, HH16, Hua10, HM18, HZXL15, JQ15, JLR$^+$92, Joh11, Jul21, KP92, Kov77, Kun99, Li87c, LT88b, LT90b, LT90a, LT90c, LM93, LP93, LMR94b, LŠS01, LZ01, Lim10, LJ11, LL11, Liu15, LL18, Liu22b, MF79, MR12, MŠ09, MO13, McD92a, Mol09, MN12, ME18a, ME21, Nag17, Pet97, Pet10, PR20, Pie79, QH17, QC23, Rai87, RJ04, RŠ06, RŠ08a, SH21, Slo13a, Slo14b, Tag12, TH14, TH18, TKT19, TS21]. **preserving** [TB92, TXC08, WZC11, WZL13, WJ16, Wat83, Wat85b, WZ22, XCC99, XXF22, YZ20, ZHH09, ZCZ12, ZX16, ZWW10, ZXF15, ZL17]. **Pretty** [WC22a]. **Price** [TT78]. **prime** [BD22a, Cen11, DS13, Far17, GLdS22, JL12, LWZ15, Lin21, New80a, Nor95, Nor08, Per15, QH17, Sta14, Sta15b, Yao22, DDA20]. **primeness** [Per15]. **Primes** [RS74]. **Primitive** [BS17b, dSP16a, WYM11, AF11b, CC17b, GSS09, GM21, JKKC22, LLS10, LM95, LLL09, Liu92, SSG12, YMYS13]. **primitivity** [BP89]. **Principal** [CT21, Dru15, LP03, LMMR15, NS92, NS93, Rao81, RBB22, Vrb86, XFG14, Bén10, BCCL22, CFSRL22, Cho82, Dix79, FT21, Fie81, HKT15, HS87, HK16b, Hol84, HT91a, HO17, Joh84, JOvdD84, LH23, MR18, Nas75, NTU93, Pri78, RM22, ST08, TT78, Tho92b, TDL18, TZ21, ZHZ11]. **principle** [BdP21, dC13]. **principles** [LL14b, Sin83]. **prism** [CLX22]. **Private** [KP14b]. **Probabilistic** [BAN12, WW76, Sim83]. **probabilities** [CMM22, Ger86, Joh82a]. **probability** [CPZ17, DPP17, KM22, LN14, Sti87, XXF22]. **Problem** [Ano82f, CLLT93, Tho82a, Adu15, AHK92, AS11b, AG15, AO78, Ang00,

Ano83m, Ano85g, Ano86e, Atk84, AB22, BC05, Bap92, Bar88, Bru87, BK87, CC17a, Cal95b, CKLP13, CH12, Che91, CP18, CP21, Cro18, CCLN16, CLW21, Cve95, DLQ18, DS16, DF82, DP18, Dod13, DS22b, DJK08, DWL13, DCLW19, DN18, FS22, FdF09, Fie90b, Fla75, FH89, Gar85, GB77, Gra93, JDD21, JC74, JL85, Joh89, JJK95, JN14a, JNS23, LW96, LLW07, fLLyP15, LMMR01b, LW10, LZS23, LL78, Mer79a, Mil15, Min80a, Min82a, Mir18, MMG15, MS15a, MAM15, Mum86a, ND13, New83, Raw81, Rea96, RP04, SR17, Sin84b, Smi05, Sol06, Sol80, SW22, Sto79, TXL21, Tau73b, Tho85, Tho87b, Tho91, Tre85, Tre86, Ves80, Wan17b, WW01, YZC21, ZXL22, Zha92, ZY13, ZWLZ22, Zha22, ZVL18]. **Problems** [BL80, AAB17, Ano82g, Ano84e, Ano84f, Ano92g, jAS15, jAS21, BCR91, BLP92, BR01, CQW16, Che92, CS19, CL22b, CL01, CKKY23, CDF21, CID16, De 84, Din98, DJ98, Fri88, GMZ17, GLL18, GGGA21, GKT97, GM87b, HZV23, HRMP95, Hua16, Joh82b, Joh11, JTU00, KPL+09, Li85, LT88a, LZ16, Li21a, LLV18, MM06, Man91, Mer91, MŠ98, MB22a, Sad23, SC21, SQM99, Sch91, Sin82b, TT85, WS18, Wan22a, Wil83, WL16c, WZY22, Xu93, YLW15, Zha00, ZHZ11, ZV19, dF13]. **Procesi** [Reg87a]. **process** [DMV18, FSFSO+14]. **Procrustes** [Rau18]. **produced** [Tia11a]. **Product** [AK94, BLdPS04, Cal03, CGL+16, GN02, AN19, AF12, AJL18, AHT85, AHJ87, Aze99, BH23, BCDF09, BD22a, BM17a, BS22c, dAB17, BG21, Boa13, BM15c, BM17b, Boz99, BH15b, BZZ10, BM16, Cam78, Can80, CK17, CX23, CKR18, CKR21, CM19, CS23, CW16, CC21, CY22a, CHS22, Cho18b, Con77, CD15, Di 88, DM13, Dra19a, Dra19b, EAM19, FD14, FKKS11, Fow80, Gha13, Gór22, Gra10, Gra11, GT98, HZ11, HPS83, Hol85, HH16, HXL16, HM22, HWSH13, HZXL15, IS15, JC22a, JKH20, dJfLlZ+21, Joh77b, JN90a, JS99, JN00, KT06, KR14, Koz17, KLJ23, LV18, Lee94, fLLL+17, LH21a, lLZjZ19, Lim90a, Lim23, LMMR01b, LJ11, LL22a, LLY22, MW23, Mar97, MP16a, Mat92, McF79b, MWC22, Mir92, Neu74, Nor95, Nor08, Ota20, PM22, Pat08, Pat09, Rad16, RP22]. **product** [RW96, Rod81, RC18, SH21, STME10, SN22a, SN23, Sil93, SAV01, SZBW16, SZZY18, TZ19a, Tan13b, Tho74, Tho88, WZD16, WJ16, WCS+21, WS23, XJS20, XQ16b, XXF22, YZ16, Zha00, ZPCZ16, Zus22, vR11]. **Products** [Bal77, Bal79c, EM87, Ell95, Gib76, Hou22, Laf83, MKS84a, O'R15, Pat81, Rod97, ST91, Sul08, Wil99, Alp95, AAdFS19, AO97, BK83, BJ75, Bar76, BJ93, BW23, BJS15, Ben18, BE22, Bre12b, Bre16, BSO13, CW81, CGY13, CL85, CG17, Cat21, CD22, CL17b, Che95b, CKL16, CK20, CW22, CG16, DSD83, De 78, DF90, Dol07, Du10, Erd22, FL16a, FJM00, FHL+14, FIS06, GG22a, GWW15, Gil16, Gro96, HH22a, Hal91, Har84b, HS81, Hol84, HMN91, HX21, Hua08, HLH18, Joh74b, JOvdD84, JOvdD85, JN90b, Jul21, Kit91a, Kur04, LL16a, Lim15, LMMR01a, LW08, LFY16, Liu18b, Liv94, MKS84b, NS99, Ng14, NY21, Pat82, Pat92, Pat08, dSP22, Pet10, PT87, Poz22, RS10, Sil90, Smi94, Spi04, SW81, Sur98, TH14, TKT19, TS21, Tan16, TC04, Tia05b]. **products** [Tia18, Uhl82, Wan80, WZ97, WC16, Wu22, YZ20, Zha89, ZHH09, ZX10, ZXF15, Zho22, Zim89, dCdSA22]. **profile** [BL21, LB19]. **programming** [Bar07, Che92, Gur98, WY21]. **programs** [Caf13].

projection [Gro99]. **Projections** [XCB18, AHT85, BR10, BCI13, DPR22, DWCD19, FXY22, Gal08, KW17, KR07, LD17, MR08, Rei83, Szw18]. **Projective**
[Jam88, Rei75, Den05, LPS21, Ng14, Pan13, RŠ06, RŠ08a, RŠ09, SZ85]. **projector** [Byt20]. **projectors**
[BT11, BT13, DW12a, GT98, KR14, TL12, TCI13]. **prolems** [EJ88]. **prolongation** [BBM20]. **Proof** [GSZ22, Kit81, Rad80, Tho86b, AY95, Aue95, Bar12, Bay22, BD96, Car20, Fri82a, HL09, Koh11, KAE22, Mag22, Mel18, Min82b, Poo80a, Reg87a, RW84, Rem90, Roi99, Tam91]. **proofs** [BM18a, CL13, DHT94, MS82b, Rem82, ST80]. **propagation** [JL22]. **proper** [AMZ13, Ger82, JC22a, Tho75b, lWW15, ZCZT22]. **Properly** [Fri97, Mar20]. **Properties**
[BD94, EMS02, GZH19, HM77, HK17, JKZ20, KY17, McC85, WD17, AAD22, BCNG23, BC82, BZ19, BS17e, BS18b, BM18c, BM19b, CKR21, CL94, CKM18, CJK$^+$13, Dag23b, DST91, DLD22, Din15a, Dra13b, Dra17b, Dra22b, DS23c, EB17, Far17, FJK22, GCP20, GN20, Gho19, GS20b, Haj18, HLY22, HLS18, JNBR93, KI16, KW17, KS84, KM98, KD23, LZ14a, Lor00, Mai11, MSS13, MRT14, Mar13, MH22, MH12, MCIM21, MAH18, MAH21, NG15, PG22, PRS03, PRA22, RP04, SMBB$^+$15, SSfW15, SHC22, ST08, SKM17, SCL$^+$22, SL17, TG09, Tra89, Tra90, VM07, WC12, Zel85, ZW17a]. **Property**
[Che95b, CN04, Ger74, NY21, AHJ20, AHJ21, AZ22, BNP06, BGM22, BMP22, BCEM12, CNW21, Can80, CP16, CAP20, DKK$^+$20, DdF22b, DH22, GF10, HA22, Har84a, JVMCPR19, LS17, LFY16, LLV18, LC83, MW19, MW21, MB22a, ME18a, ND05, OS18, Per15, PSB23, Pop20b, Rom07, Tau74, Wer87, XQ15, ZCCIW12]. **pros** [LLMN20]. **Proving** [Red02]. **PSD** [DNY22]. **Pseudo** [AJL22, FG02, AN19, Bal79c, BS18b, ĐM79, Mir18, Mos21b, Per19, SHC22, WW20b, ZZ16, ZC22, ZP19, ZW20]. **pseudo-bundles** [Per19]. **pseudo-differential** [WW20b]. **pseudo-involutory** [Bal79c]. **pseudo-reflections** [ĐM79]. **pseudo-Schur** [BS18b]. **pseudo-spectra** [SHC22]. **Pseudo-Strong** [FG02]. **pseudo-symmetric** [Mir18]. **pseudoalgebras** [LW20]. **pseudocharacteristic** [Mer79b]. **Pseudoinverse** [Bom02, Gut23, SLW21]. **pseudoinvolution** [IM18]. **pseudospectra** [ABJ16]. **pseudospectral** [KK22c]. **Psi** [Pat93]. **Psi-functions** [Pat93]. **pure** [CCL10, EJ91, XXF22]. **purely** [Bar07, Ng22]. **Putnam** [Ras17]. **Pythagoras** [Haw05]. **Pythagorean** [YLL90].

Q [MB22a]. **Q-property** [MB22a]. **QR** [KV22, LYS15]. **QR-algorithm** [KV22]. **Quadratic**
[BSO17, PM23, Rob77b, Adh13, Bae84, Bre18, Che92, CZ22, DDA20, Dra18a, Edw80, Fei75, Ful76, Ger82, GSZ22, IK20, IK22, KML95, Lee18, Lew97, LPT11, LWC22, ME18b, Pap13, dSP22, PUÖ15, Raï19, Rus16, SH21, Shr90, Sol80, SPM14, Tau81, TS05, Tia11b, UÖÖ15, UPÖ16, Ves80, WY21, YZC21]. **quadraticity** [PUÖ15, UÖÖ15, UPÖ16]. **Quadric** [BFM22]. **quadrilateral** [HL18]. **Qualitative** [JvdD91]. **quantifying** [Aud15]. **quantitative**

[Fie73, IT16]. **Quantized** [JP15a]. **Quantum** [KLZ10, MS16b, Pal21, Aln11, AG18, BLX18, CKL+21, CGH15, CHFC19, Da 94, DHKSH08, Drn13, FHLS13, JP15a, Joh14, KMP+19, KPL+09, KP14b, LCWW22, ShDHG08, Ter22a, Zha14a]. **quartic** [CN21]. **quartics** [AC23]. **Quasi** [And96, aCC17, dSP16b, dlP20, GCSC20, Gol06, LBV13, MCL20, MP18, Sar20, TLC16, Tom19]. **quasi-** [MP18, Sar20]. **quasi-Banach** [Tom19]. **quasi-coprime** [TLC16]. **Quasi-Euclidean** [dlP20]. **quasi-filiform** [LBV13]. **quasi-Fredholm** [GCSC20]. **Quasi-orders** [And96]. **Quasi-range-compatible** [dSP16b]. **quasi-strongly** [Gol06]. **Quasi-Whittaker** [aCC17]. **Quasidirect** [LŠ96a, LŠ96b]. **Quasilinear** [IK20]. **Quasimonotonic** [Gol90]. **quasinilpotent** [LL18]. **Quasinormality** [Ras17]. **quaternary** [BX11, BSO17, Bus23]. **quaternion** [Abo20, AAK16, CKXX23, Din15a, FWZ11, FNW18, HW13, HW14, He21, HZ12, KL21b, Kyr11, Kyr21, STZ94, Tho87a, Tho89, WXD21, WLZ22, YL11, YLW15, YW16, ZWLZ22, ZLZ+22]. **Quaternionic** [haYsS99, AAB17, AJL22, AY84, AY95, Bal23, CDM22, CCL10, EÖ15, Fen10, MVPS14, MVPSTT23, MBB22, Rod08, SLH20, ST96]. **quaternions** [CC22a, CT22, KT19, Kri87, LK21, LK23]. **question** [DHHK23, GR14, KKS21, KNX93, KNX95, Sin80, Zha95]. **questions** [BHM76, CKLP13, dF11]. **queue** [GT08]. **quintic** [BP18]. **Quintuple** [Sto79]. **quiver** [Sch22]. **quivers** [Sch22]. **quotient** [MVPSTT23, ZY13]. **quotients** [BdPNdP17].

R [Ano79b, Fie84, Zha95]. **R.** [Don91]. **Racah** [WHG17]. **radial** [HX21, Li86, Tam86]. **radical** [COK22, dHS23, MV75, Shc21]. **radicals** [GLOT13, Kol23]. **Radii** [Gol07, LR04, Abo20, AO97, BKS21, BHK21, CC14, CL14, CLMR09, FNBR96, GWW15, Gol79, GS19, HLB22, KL21a, Lei91, Lei95a, Lei98, LT89b, LT92c, LMR94b, Li94, LZ01, LDL17, LWL21, LW22a, LL22b, MS82b, MS85b, Mel20, Mel22, Sab19, SS23, SKLS21, Tam98, YHS13, ZXL22]. **Radius** [Fla74b, LŠ02, PT02, ADJAH22, AL21, Alo21, Alo23, ALP94, BDK09, BDK21, BBP21, BP22, BM17b, BM18b, BBZ15, CCS16, CR22a, Cha92, Cha93a, CW17, CHQ18, CZ21, CH22a, Che22b, CFLL23, CF23, Cos14, DLSS18, DW23, DM14, DIF13, EAM19, FTZ08, FGHL22, FMZ22, FLZ07, FYIS13, Fri93, GB22, GN20, GL11, GTZ75, GB11, GLS16, HH16, HLW+21, HZX22, JS22, JWBB22, JL88, JSG94, KOSS23, Koz17, KK22c, LP07, LTT84, Li87c, LT88a, LT88c, LT88b, LŠS01, LT09, LT11, LT12a, LC14, LLP18, LS12, LS13, LL15, LZ17a, LZL18, LZ19c, LGZ20, LL10b, LLGX22, LY22d, LCG+23, MGKA23, Man91, MO94, MP96, MS21b, NP13, NG15, Obo23, Oku93, OST20, OM21, Pep11, Pep19a, Pep19b, QHB22, RSM21, RSM22, SM21, SRS21, SYZL17, SHS17, SKLS20, SZWB16, yT86, TJ11, Ton87, WH11, WZ18, WWW20, WMFW21]. **radius** [Wan22b, WY20, WDJ10, XSW21, XSW22, XW19, XZL14, XYH22, YSY17, YS23, ZMCN19, ZQC18, ZHH09, ZG11, ZL19, ZW17a, dlP09]. **Rado** [GX17b, Woo22]. **Radon** [AYC93, GP74, GP22b, HJ20b, Lee98]. **raising**

[GR81]. **Randić** [Yin21]. **Random** [Tan13b, CMR21, CLX22, Che18, Din15a, GLLM21, HL18, LCL22, Rau18, Sha15, TXL21, TJ16, WS23, Zen22, ZZ21]. **random-effects** [TJ16]. **randomised** [ZWZ23]. **Range** [AMP02, BK83, BD94, CN04, DvE20b, Far02, GW04, KR07, LN98, Sed04, haYsS99, AAK16, AYT83, AY84, AY95, BM22a, BJS98, Bal80, BB15a, BD88, BLD91, BL92, BD96, BdPN14, BBK22, CRW21, CJ97, CDM22, Cha18, CLP22, Che94, CL94, CT96, CT09, CL13, Chi98, CNP05, CNP06, CN07, Chi11, CN14, CGL$^+$16, CH10, CKP09, Cro08, DvE20a, DHH22, EM15, FT87, FMX18, Far93a, GW98b, GW08, GS21b, Gro96, HHSY22, HH16, How80, Hu89, HT91a, Hug90, IOMA21, IOMAN21, Jam88, Jam95, JLL07, JC22b, Jon92, JR93c, JR94, KV23, LLS14, Lei92, LT92a, Lei93b, Lei95b, LT88a, LT88c, LT91, LMR94a, LŠS01, LPS09, LT09, LD17, LWC22, LP16, LTT11, LP22c, LP22b, Man87, Man91, Mar75, MF79, MS79, MW80, MS82a, MS87, MBB22, MS15b, MS16b, NNT95, Nak95, dSP16b, Poo80b]. **range** [Poo94, PV00, Rod08, RW21, RS08b, ShDHG08, ST80, STZ94, ST96, Spi00, Tam85, Tam88, yT00, TS19, Tho80, Tho87b, Tsi83, WZD16, Wes75, Woe08, WC12, YC19, Yua98, bPFZH08, LLS16]. **Ranges** [BLdPS04, Ber02, BS04, LS04, LR04, Loe74, Abo20, AM21, AyT84, BdP98, BdP12, CKL$^+$21, CGW14, CL17b, Che14b, Che16, Che17, CN05, CN08, CN15, CLN21, CL00, CGHK08, CLMR09, Da 94, DHKSH08, ERS12, FHL$^+$14, FL16b, GW12, GWW16, GS21a, Gol79, HT91b, HL21, IOMAN21, JNBR93, KL21a, KPL$^+$09, KP14b, Lei93a, Lei98, LT92c, Li94, Li96, Li98, LPT11, LD19, Mag13, Mag14, Man92, MP87a, MR97, MP98, Sza09, Tam94, TGW14, Tsi81, YLC19a, YLC19b, vD96]. **Rank** [BT11, BPS00, BL97, CM15, Cho10, CL01, Dod13, EL90, Fer09, Gal01, GVS96, HZS22, JT03, KP14a, Mar13, MF92, OW02, Pat03a, ST97a, So99, SLH16, Tia01, Tia02, Wal79b, AM21, AW83, BHD10, Bal14, Bal18, BI95, BOvdD91, BL01, BSL01, BS16, BS22b, BdP12, Ben90, Bén11, BHH$^+$11, Bot87, CKL$^+$21, CFSGL18, Cat21, CCL21, CCS98, CGW14, CT16, CHL18, Che14b, CLN21, CGHK08, CLN13, CK19, CKT20, CL21, CLMR09, CP18, CP21, CO12, Dec95, Der16, Der18, DM18, DM19, DS22a, DMQV23, DR18, DH16, FT21, FW13, FOT23, Fie81, Fra17, Ful76, FS89, GRMA13, Gon17, Gro99, GW21, GLM$^+$22, Gur79, GL83, Hac22, Hai88a, HHSY22, Har81b, HHY22, HKv23, HS87, HLZ05, HKS94, JW91, KS12, KP14b, KRR18, KS17b, Kuz05, Laf78, LL16a, Lau81]. **rank** [LPZ13, LPS09, LGA$^+$13, LZX19, LY22b, Lim90a, Lim92a, LT14, Loe93a, Loe93b, Loe01, Lon80, Lon81, MS16a, Mar11, MR18, MMRR16, Min77, MSS18, MS15b, MS16b, NS15, Ned98, Ore19, Orl18, dSP16a, Pet09, PV20, Rub20, SdF12, Šem97, SMBB$^+$15, SM22b, Shi15a, Shi16, SMF95, Sil88c, Sil88b, SS12, SBMP16, SKP18, SL21, SF17, Tia05a, Tia05b, TWZ16, Tia17, Ven19a, Wan79, Wan15, WM17, Wan19a, WW20a, Wat85b, WLM21, Wes80, Wes81a, Wes87, Wes90, Woe93, Woe08, Wu09, WW12, XL17, YLX20, Yan21, ZS05, Zha05, ZY17, ZXF15, Zho16, SLH18]. **Rank-** [CM15, KP14a, BL01, Che14b, CL21, Fra17, Loe93a, Loe93b, SF17, XL17]. **rank-1** [YLX20]. **rank-2** [Hac22]. **rank-additivity** [Har81b]. **Rank-one**

[Cho10, CL01, BHD10, Cat21, CCL21, DH16, FT21, MMRR16, Ore19, SKP18, ZS05]. **Rank-preserving** [EL90]. **rank-subtractivity** [Zha05]. **rank-sum-maximum** [Zha05]. **rank-sum-minimum** [Zha05]. **rank-two** [CLN13]. **Ranked** [PM78, BC91]. **Ranking** [VDW85]. **Ranks** [HS93a, LPS08, MS74, SK03, Tia03, AC78, BB13, Bal14, BB19a, BS92, BS17c, Bot94, FT21, FKR93, HK79, Haw05, KJ13, LGA+13, Lim15, MSS18, MRS10, Pat87, SMS15, SMS21, Tia11b, Tia18]. **rate** [Doo16]. **ratio** [LH23]. **Rational** [AMP02, Afr73, JT23, AMZ13, Bri89, CM85, DA22, DMQV23, Fei75, dHS23, KLL22, LR96, MZ04, Ota13, RR91, Sil84, Tre85, Tre86, TSYB82, Uhl79]. **Rationality** [Fri90a]. **rationally** [DH91, Tre87]. **rationals** [MV75, New93]. **ratios** [Sra20]. **ray** [BGZW16, IK20, IK22, LCL22, ZHLZ13]. **Rayleigh** [AB78, BdPNdP17, MVPSTT23]. **rays** [Pat03b]. **Re** [YZL22]. **Re-nnd** [YZL22]. **Re-pd** [YZL22]. **reachability** [NS85, NST91]. **Real** [ABC18, Joh81b, LP02, LHS+21, Slo13c, SB03, Ven19a, Wes81a, haYsS99, AF11a, AF11b, AF12, Adk95, AS12, AGZ00, Bal14, BS92, BB75, BPR20, CS21b, CO12, CIDK07, DH86, Deu80, DIJ23, Đok83, Dru15, ER22, EJ91, Esc93, Fan73, GP14, GW17, Gon17, Gue19, GHK16, Ha89, HW13, HW14, HS88, HLZ11, Jin17, JKB17, Joh84, KL22, KML95, sL19b, LS16, LM93, MMRR16, Mes90, Mir09, Moh16a, NR23, NP91, ORT15, Ota13, Pal79, Pas15, Per17, PM23, RŠ06, RŠ09, RBB22, Rom89, SU77, SL15, SMS15, SMS21, SK15b, TT12, Tho75b, Tie16, TNJ22, Wes80, Wes81b, Wu22, Zha01a]. **real-positive** [CIDK07]. **realizability** [JMP17, PM23]. **realizable** [LS10]. **realization** [APEPPS23, JMS15]. **Realizations** [NU94, AM90]. **realizing** [CJK+13]. **Realteil** [SU77]. **rearrangements** [TI77]. **reas** [KLZ96]. **Reciprocal** [AH16b, AHJ20, AHJ21, BNP06, BGM22, BMP22, HA22, HINS10, PSB23, MT22b]. **recognising** [Gre99]. **recognize** [Han21]. **reconstruction** [FM21, SS07]. **rectangles** [Lor14]. **rectangular** [AA21a, BCR91, Car19, CKP09, Cra91, HZ20, LT88d, MHH96, Mis17, MSS19, ZS05, ZL18, Zha19]. **recurrence** [CR22b, Kom10]. **recurrences** [PSW18]. **recursion** [BVW84]. **recursive** [TZ21]. **reduced** [Car06, RA21, YTL20]. **reduces** [For79a]. **reducibility** [OR09]. **reducible** [Cav10, CNP06, CN07, GSS09, Ikr15b, Stu89]. **Reducing** [OW02]. **Reduction** [BZ22b, BT90, CS18, FN14, Gal01, GRMA13, HH85]. **reductive** [Koh11]. **redundancy** [Far22]. **Referees** [Ano11b, Ano10]. **Refined** [KK13, WW20a, BM15a, lGyW99, Sha20]. **Refinement** [Mel20, YLC19a, You15]. **Refinements** [Alo21, Bak16, Dra11, LS15, TGW14, Dra19b, SG18, YK22]. **Refining** [Bap88]. **Reflecting** [AFVL00]. **Reflection** [LM03, Ell93]. **reflections** [ĐM79, EM87, Ell95]. **Reflexive** [Mia93b, AH13, CIN15, Had83, Haj18, Qi15]. **réflexivité** [Del94]. **Reflexivity** [Hos22, CHK00, Del94]. **regarding** [DJ89a]. **regional** [JLR+92]. **Regions** [LS04, LL14a, MH20, Ano22a]. **Regular** [CZZH22, KS15, Peñ02, AG16, BCEM12, CP81, CLW15, CC23b, CP18, DFK19, DP17, DGR08, EB17,

FG06, Gol06, HS95, KMS16, Koo95, LR13, LM10, MS10c, Mou20, NS99, PH15, PV23, Ram22, Rod03, SR22, Sta10, Sta20, TW17, Wri22a, Zho16]. **Regularity** [FG02, BV16a, CFGM06, HRT15, RR95, Ska17]. **regularization** [GY22]. **regularized** [DPP17]. **Rejection** [Whi74]. **related** [AG22, ABAH23, AkK17, Ala16, AGR91, AV22, CT22, Car90, CKLP13, CKMY22, CN14, Cho18b, CL01, CR22b, CKKY23, DHHK23, DP18, For79a, Gow22, GSZ22, GX17a, Hon92, KM22, KLJ23, LPT13, LT87, LFY16, MGAH19, McD92a, Mcf79a, Obo22, SMBB$^+$15, SHC22, Sin84b, Sto79, SK15a, Tia01, Tra84, WZ14, XQ15, YGÇ19, ZW19, ZBW12, Zou20]. **relating** [JL88, Li91, Pat82]. **Relation** [CD03, Wan19a, WL20b, ZH22, AV22, AB22, Bén10, Byt20, CHL18, CR22b, Dji16, DK16, DHH22, DH22, Fie90b, LZX19, LY22b, Lim79b, MW16, Wan16a]. **Relations** [DS02b, BCM18, CC92, Che14a, Chu22, GZ76, JR93c, JR94, Kom10, KD23, LST89, LT92d, LD22, PT87, Put82a, San18, SXR18, Sim83, Tam91, XS18]. **relations*** [JC22b]. **Relationship** [WW12, DMV18, Gut23]. **relationships** [SPS15]. **Relative** [DHKSH08, Dom00, For87, Fur11, Hol04, MCIM21, MN12, MF20b, ZBW16, ZLS22]. **relatively** [Dre93, JKD16, LS22c, XS18]. **relaxation** [CLW21]. **relaxed** [Szw18]. **relevant** [Tik98]. **Remark** [DLD21, KL19, CH10, Fan88, Fri90b, GT79, Hul81, Mar82b]. **remarkable** [JLL88]. **Remarks** [BSM98, For79c, KKL22, LW11b, Ng22, WZZ22, dF13, Gro97, Odo83, YT15]. **Remarques** [Rev81]. **removal** [SS22]. **Rényi** [DDF22a]. **Replacing** [dCdSA22]. **report** [LRT08]. **representable** [CG22]. **Representation** [Adu15, JT04, Tur02, DMV18, Gau76, HCS19, IAM23, RRN23, Sch22, SX12, Wes81b, YW09]. **Representations** [BZZ11, Che93a, DD10, Don91, Elg22, FOT23, Ful76, GCP20, KO10, Kra06, LCC19, Mer82, SKM17, SCL$^+$22, XSH18, ZFSX17, Abd09, jAS15, BS18a, BP18, Byt20, CR15, CV94, CICX09, ĐDJ76, GZZF23, Heo16, Hun83, Hun86, KCSĆ21, Kut19, Kyr11, Kyr21, LLMN20, LL20, Lip87, LYZW12, ML21a, Ma22a, MPI17, MR13, SQM99, Sei95, Til77, WL16b, ZT12]. **representative** [MN96, WW80]. **representing** [RD12]. **Reproducing** [BR04, GGGA21, YGÇ19]. **require** [BJS98, EJ91, Esc93, KMT96]. **requirements** [JS91]. **Research** [Ano82f, Ano82g, Ano83m, Ano84e, Ano84f, Ano85g, Ano86e, BC05, Bap92, Bar88, Cal95b, CLLT93, De 84, EJ88, Fri88, Gra93, GM87b, JC74, Joh89, KPL$^+$09, LMMR01b, Mer91, RP04, Sch91, Sol06, TT85, Tau73b, Tho82a, Tho85, Tho87b, Tho91, WW01, Zha92, Ano97b, LW96, Mer79a, Zha00]. **Reserch** [Bru87]. **residual** [CIP17, Guo20]. **residual-based** [Guo20]. **residue** [WY18]. **residues** [GSZ22]. **Resistance** [BBG22c, AAB20, RBG23, SWZB15]. **resistances** [CMM17]. **resolution** [DS23c, PA94]. **Resolvents** [Gil16, Gil14]. **resonances** [Ab23]. **respect** [AC13, Aln15, Che91, FH73, HHC12, HPV88, JST18, KMMS22, LT89a, MO94, Ner22, Oku93, Pop17]. **Restricted**

[MPGS21, Pap13, Bal79a, CRW21, CC19, Che93b, Che93a, CP16, LOO22, Ned98, SG96, SPK15, SPKC15, Wer84]. **restricted-rank** [Ned98]. **restriction** [DS22a, Wan15]. **restrictions** [BZ99, Bou18, Far94, MT22a]. **result** [AkK17, BB17a, Das21, Har84b, JLL11, New74, New82a, Poo80a, Ric87b, Tam91, ZZY16]. **resultant** [Bar80, BL21, GKLR82, Orz84, XW22a]. **resulting** [MP87a]. **Results**
[Gór22, JKZ20, LN98, Tau74, TH80, AG22, AEAAES20, AAK16, AN14, Amm18, Ano22c, AZ22, BL83, BHK78, BM17a, BLZ11, Boa19, BZZ10, BSZW13, CL13, De 82b, DCIW10, DW12a, DHT94, DIF13, FM22b, Gar23, GHL10, GAMA23, GX17a, Guz88, He21, KDHJ22, KCICV18, Li84, LT87, LZT18, MR97, Mou13, NS85, New75, Nie10, PS22, SMBB$^+$15, SWH22, Sin82b, Sra20, SWZB15, Tam77, WC15, mWyD11, Wer87, YGÇ19, YWZ21, ZCP16]. **Retarded** [DGR08]. **retrievable** [FM21, HLY22]. **reversal** [Kir93]. **Reverse** [CIN15, CIM19, KM11, LW08, Obo23, PBM20, Rad16, ZCP17, BS18b, CID16, DD14, HKO16, LFY16, Ota20, RW84, Sha20, WZ14, XQ15, XQ16b, ZX10]. **Reverse-order** [PBM20]. **Reversed** [DL14, Bak16]. **Reverses** [BM15b]. **Review**
[Fan81, Kap80, Lei81, Tho83, Yaq80, AK78, Ano83a, Ano89a, BFMM73, Con94, Fan84, HS81, Hum83, Joh83, Keg87, MT83, Mer98a, Pie92a, Sch92a, Sha95, Sko85, Sta94, Tho82b, Tho82c, Tho82d, Tho82f, Wat84a]. **Reviewers** [Ano12b]. **Reviews**
[Ake80, AR80, CST75, DW76, Doz79, EA77, FAR78, HUSG74, JM77, MB76, MS80, MBSL74, MGK$^+$74, RY73, SB75, Sen81, SA77, TB76, Tho81a, Tho81b, Tho82e, WNM74, CS79, GMS$^+$76, JTH77, LW78, PA79, WTM78, ZF78]. **revisited** [CBQW19, CC23b, DD14, Ere15, FMSS19, FHL$^+$13, Joh90, JZ95, LZS23, Per17, SRT22, Vel18, Wan19b, dF19]. **Revisiting** [Lip87]. **Ribbon** [FJK14]. **Riccati** [CK84, DLL19, FN14, Igl99, LRR87, MWC22, NF19]. **Richardson** [AW13, AM90, BG90]. **Richman** [BHM76]. **Rickart** [Cir15, Cir16, Cir17, CC22b, Kre16, Mar15, MRD15]. **Riemann** [CN21, Red02]. **Riesz** [BZ22a, BCM18, CDJ13, CG22, DMV18, FJS14, HSM17, HFSZ22, ZQZ21, ZZC17]. **Riesz-representable** [CG22]. **Riesz-type** [BZ22a]. **Right** [CC21, Ake83, AJL22, Bal80, Đok73, HBM15, MRD15, MW22, MBB22, Pat89, Tho86a, WHC22]. **right-star** [MRD15]. **rigid** [BCS18, COK20, CSG22]. **Rigidity** [BCS18]. **Rigidity-preserving** [BCS18]. **ring**
[Bas17, BH15a, ĐL92, Đok93, For79d, HWZ18a, Hua10, HPV84, HPV88, KCSĆ21, LPT13, LCL13, Lew90, LQ95, MW16, Mil22, OWX09, OWTZ21, Piz87, ST22, Slo15b, SZ19, SX12, TZS19, TW17, WOY06, WZL13, Wri22b, XWT22, YWO07, ZWM17a, ZWM17b, ZC22, Zhu18, ZP19, ZCCIW12]. **Rings** [GMR81, RR04, Rao81, Zho22, AH10, ÁBvW16, AW13, AELL20, AA20, BY19, Bas17, Bas19, BD22a, BLR12, BCI13, BB17b, BDvW12, BDvW16, Bre21, CL22a, CS18, CQ22, CG19, Cir15, Cir16, Cir17, CC22b, Coa99, CZ22, DPvW13, DS13, DD15, Dre22, DJS21, Ere15, FJK14, Fog73, FSvW11, Gar21, GV89, Gus81, Haw05, HLZ18, Hou21, HLH18, HZ20, Jam88,

Jam95, JL12, KW21, KK22a, Khr16, KL12, KR07, Kre16, LPT14, LWZ15, LC18a, LZ23, LL10a, Lin21, LCL14, Mar15, MRD15, Mar18, MP13a, MP87b, MCIM21, McD92a, Mos21b, New85a, PA10, Pre22, QZ16, QH17, RM22, RŠ08a, SM19, ST97b, Tan20b, TZ17, Tau73a, Vla23, Wan16b, Wan19b, WM21, Wat85b, WY18, YLW22, YW05, YQ90, ZWZ10, ZCZT22, ZY08, ZCP16, Zhu19, ZW20, ZWM23, ZCP18, DDA20]. **Riordan** [MB22b, PS21]. **Ritz** [RW21]. **Robert** [Ano97b, Day97, GPR84, New97]. **Roberts** [FMZ22]. **Robertson** [JZ95, Joh90]. **Robinson** [Foa79]. **robust** [Ano16c, Ous15b, Sol14]. **robustness** [AT18]. **Rohn** [Rub20]. **role** [MN96]. **Root** [Hai92b, BAN12, CGH15, EJD88, FZ11, Hai92a, Lia23, Mel13b, Mey15, vBW95]. **rooted** [MW23, Muk20, RP22]. **roots** [AAT16, CL74, HHC12, IK19, JN80, KN81, NMAB22, Nom73, Ota13, Tie16, Uhl99]. **rootsystems** [Hai88a, Hai88b, Hai97]. **rose** [MH16]. **Rota** [FW73, Gar73, GG22b, KKL20, LW20, ML16, ZLS22]. **Rota-type** [KKL20]. **rotation** [GTM14]. **rotational** [Sjo93]. **Rotations** [Edw80, Edw78]. **Rotfel'd** [FL16b, HWY17, HWZ18b, YLC19a, Zha15b, ZN18]. **Roth** [FW13]. **round** [Spi00]. **Row** [Joh81a, JP17, SS12, CPKK22, FV97, Har81a, Kap77, LSOvdD95, MH19, MH12]. **row-adjusted** [MH12]. **row-sums** [MH19]. **rows** [MNS22]. **RS** [GTLN18]. **RSVD** [LT10]. **rule** [BG90, CRY95, Che93b, CPT15, Wer84, WY18]. **rules** [Che93a, Kyr08, Kyr11, MS10a]. **Rutishauser** [TT15]. **Ryser** [MS85a, New83, PS22].

S [Ano16b]. **S.** [DF82]. **Sachs** [AAT17]. **saddle** [CL22b, MHM22, Zha20a]. **Safety** [GHV99]. **same** [BCCL22, CW90, Do 96, Fer10b, JGK79]. **Sampling** [CKXX23, BG23a, KKP13, SR17]. **Samuel** [Yu14]. **Sandy** [Tam86]. **Santa** [Ano79c]. **satisfied** [Wan82]. **satisfy** [McD92b]. **satisfying** [CW11b, CW12, Düf97, DKK19, KL22, Pet09]. **Scaffoldings** [Cas23]. **Scalar** [Est80, AF12, Bre15, GS21b, PY82, Rod81]. **Scaled** [BKL02]. **Scaling** [JR09, FLS88, HS85, Sha91]. **Scalings** [HS85, SS79]. **Scarpis** [Đok17]. **scattering** [MS10c]. **Schatten** [FNBR96, So90, YLC19b]. **scheme** [HZV23]. **Schmidt** [Bah22, LF15]. **Schneider** [BHM76]. **Schröder** [Dag23a, Dag23b, RS18]. **Schrödinger** [HMK22, Ab23, WT23]. **Schultz** [DK23]. **Schur** [AS20a, AO97, Bap88, BT06, BS18b, Bun91, CRY95, CPLH17, Dia79, DS02b, Dra21b, ES98b, ES00, FJ15, Gór22, GMZ11, Gur83, HS75, Hua23, JK10, Kim91, LM98, LHZ22, Liv94, Mas10, MO94, Neu81, NT86, PN22, Rem90, SV14, Smi83, Tam02, WZ97, Wat86, Wu22, Zha04a, ZJC$^+$22]. **Schur-concave** [Tam02]. **Schwarz** [Dra11, Dra19a, Dra19b, IK22, Oku91, Ota20]. **science** [FHLS13]. **score** [Kir91]. **scrambling** [GM18, GM21]. **SDB}** [JLL18]. **SDB}-tensors** [JLL18]. **SDD** [LHGL22]. **search** [CSCH01]. **Searching** [FK91]. **secant** [BB19a, Bal22b]. **second** [Ano79c, BPW16, Cam83, Das21, DTSI15, DdF15, Gro85, HSX16, Hil07b, Jam81, LP00, LLF08, Lim90a, LXG17, MB22a, Sim95,

Sta10, SKLS21, VY21, Wal11, XZ16, XSL15, YZ20, YCZ21]. **second-order** [DTSI15, HSX16, Hil07b, MB22a, XSL15, YCZ21]. **sector** [FL16b, HWY17, LF21, XZ22, YLC19a, YLC19b, ZJC+22]. **sectorial** [Ala20]. **seeds** [JP15a]. **Segment** [Vo83c, Vo83a]. **segments** [GW08]. **Segre** [BB19a, Bal22b, BB13, FU20]. **Seidel** [AAD22, TLC22]. **Selberg** [SN23]. **selections** [LP16]. **Self** [BL83, OP13, BP19, Din15a, FS14, FS19, Gil17, HH16, HX21, Kit91b, LLMT05, Sin84a, Tan13b, WW20b, XS18]. **self-adjoint** [HH16, HX21, LLMT05, Tan13b, XS18]. **self-adjointness** [FS19, Kit91b, WW20b]. **self-commutators** [Gil17]. **self-complementary** [FS14]. **Self-dual** [OP13, Din15a]. **Self-duality** [BL83]. **self-inverse** [BP19]. **Selfadjoint** [JR93a, Dra10, Dra11, ELG88, GLR82, GR93c, JR93b, KML95, KLZ96, MP98, Rod08, TZ19a]. **selfadjointness** [DK22]. **Semi** [Knu85, AFM13, Amm18, Are23, BFM20, BN22, BCM18, Cha90a, Cha92, Cha93a, CH10, Chu84a, CF23, DGJ+16, FG22, GCSC20, GH23, Gol89, GBM21, Har78b, HPV84, HPV88, dJfLlZ+21, JP87, LL16b, fLLL+17, LL14b, Liu16a, LSX19, LCWW22, MSS13, MŠ09, MO13, NMAB22, Pat92, QHB22, RC18, RSM21, SM23, SMS21, WC22a, Yu14]. **semi-** [LL16b]. **semi-Browder** [AFM13, BCM18]. **semi-Cayley** [Are23]. **semi-definite** [Cha92, Cha93a, FG22, Har78b, JP87, LL14b, LSX19, NMAB22, Pat92]. **semi-definiteness** [Cha90a]. **semi-dihedral** [LCWW22, WC22a]. **semi-direct** [RC18]. **semi-finite** [Liu16a]. **semi-Fredholm** [Amm18, MŠ09, MO13, Yu14]. **semi-Hilbert** [CF23, GBM21]. **semi-Hilbertian** [BFM20, BN22, MSS13, QHB22, RSM21, SM23]. **semi-hyponormal** [CH10]. **semi-monotonic** [Gol89]. **Semi-optimal** [Knu85]. **semi-positive** [DGJ+16]. **semi-simple** [Chu84a, HPV84, HPV88]. **semi-tall** [SMS21]. **semi-tensor** [dJfLlZ+21, fLLL+17]. **semi-trees** [GH23]. **semibounded** [Uhl82]. **semicirculant** [Mou22]. **semidefinite** [ANK22, BHH+11, Caf13, CS21b, DM13, DJ89b, FLT22, GLP92, HS88, HNS99, HM95, KRR18, LW12, Liu22b, MM06, Mat92, NS15, PV20, SU77, SM94, TZ19a, Tra84]. **Semidefinitem** [SU77]. **semidirect** [Che95b]. **semifinite** [BZ19]. **semigroup** [RS07, RS74, cc85]. **Semigroups** [BC78, AAJ12a, Ber05, CS10, DW92, GT14, LMR00, MP13a, OR09, PY82, RD12, ZCP16]. **semilattices** [Luq08, WHL16]. **semilinear** [Pan13, Pan15, ySpW14]. **Semimodules** [CL22a, LT14, ySpW22, Tan16]. **Semipositivity** [JKS94, Wer94]. **semiprime** [DS13, DD15]. **Semiregular** [Pow88, DGR08]. **semiring** [KW11]. **semirings** [AAJ12a, BL93a, BGLS07, BSS12, CL22a, DRY22, DO20, lLpW16, Moh15, MP16b, Shi15b, ySpW14, ySpW17, ySpWQ21, Tan13a, Tan14, Tan18a, Tan18b, Tan20a, Vla22]. **Semisimple** [AKOZ20, DR18, FW13]. **semisimplity** [MHA17]. **Semitransitive** [RT09, BM14]. **Sensitivity** [FS22, LZ19a, jXL15]. **Separability** [DNY22, Joh11]. **separable** [Lud21b, Raj09]. **Separating** [Kan94, ST22]. **separation** [KN81]. **separator** [HRMP95]. **sepr** [HLOvdD20]. **sepr-sets** [HLOvdD20]. **sequence** [BT15, BM89, Car88, CFZ23, Dag23a, DTS14, DV19, ESAJ18, Har84b,

HSM17, Hua01, HLB22, KI16, Kar23, MR18, MM20b, Ogu20, PS20, RF19a, TD14, TD16, Tal17, TD19, Tom19, TRM22]. **Sequences** [Rei77, AADdF23, ACJ17, AM90, BG23a, BB19c, BS15b, Đok81, Gro95, HH22b, JVMCPR19, KL13, MR17, MGAH19, MS10b, SLUG04, Zar01]. **sequential** [CW91]. **Sergeev** [BG90]. **series** [Bed10, Bed11, BX11, BB14, Car90, Chu22, DST91, DF82, ĐL92, Đok93, Dre22, For79a, SES21, SAK22, Spi76, Yuz84]. **Sesquilinear** [Lee15, LMR94a, Nak95, RB22]. **Set** [BS97, FG02, AFJK17, ASAS79, BP98a, CCS16, CFSRL22, DM22c, FGMSS19, Fra17, HM77, LT11, LT12a, LL16b, LZL16, LRD21, Mel10, Pat07, TJ11, Wan79, WL18a, YZB22, YMYS13, Zel85]. **Sets** [DMdO92, EMS02, HHSY22, AL22, BT90, BC85, Bén10, BDK$^+$05, BMP10, Bra86, BS08, CP13, CAP22, ES00, EV77, FTA20, Fri84, GS06, GZ76, HS91, HLOvdD20, Hos22, JT95, KOvDD09, Law19, LXQ21, Lei18, LT88a, Li92, LP93, LLL15, New85a, Pep19a, Pie92c, Prz92, RW22, SL19a, SRW07, ySpWQ21, SSZ93, Soa08, Sza09, TN22, Wan22a, Zha14b, ZL18, Zha19, vD96]. **setting** [FW73, GKT97, Suc22]. **Seven** [NW02, Hai88b, Wes80, Wes81a]. **seventh** [Gar21]. **Several** [Orz84, ZHLZ13, Zhu18, CF23, De 75, GJR97, GHL20b, dHS23, Paz84, dO75]. **SGB}** [JZL20]. **SGB}-tensors** [JZL20]. **shape** [Hug90, Jon92, KHG13, LH13, Tsi81, WBZ14]. **shaped** [CT96]. **Sharp** [JRMFMASS16, LS12, LS13, Luo19, Rho94, Rum97, YSY17, FMS19, Gil17, LZ17a, Mit92]. **sharpness** [KMN01]. **shell** [CNP06]. **Shemesh** [JP15b]. **Sherman** [SC20]. **Shift** [BR04, BG86, CNUV16, Tam94, TGW14, WL22]. **shifted** [RRC23]. **shifts** [CB22, GH23, GHL20b, KY17]. **Shoda** [BS18c]. **Shoda-completion** [BS18c]. **Short** [MT83, Tho81a, Tho81b, Tho82e, Tho82b, Tho82c, Tho82d, Tho83, Tho82f, AY95, Bar12, KP11, Roi99]. **Shorted** [CGM19]. **shuffle** [Lew96]. **sided** [EÖ15, Kyr21, Tur16, WM21, ZWW22, ZWM23]. **Sigma** [LY22a]. **Sign** [BJS98, EJ91, Esc93, FHL$^+$13, JWP98, KS02, KMT96, Kir11, LGA$^+$13, MOTvdD03, Peñ02, Reg87b, AG16, Cai93, Car06, GS06, GSS09, Hem93, HS93a, HLOvdD20, JvdD88, JP07, Kim13, LLS10, LLL09, LHbL$^+$15, MM11, Ma15a, MMRR16, Rem88, SR22, TI77, WYM11, WW01, YMYS13, YHCW14, ZBW12]. **sign-balanced** [WW01]. **sign-central** [Kim13]. **Sign-patterns** [KMT96]. **sign-regular** [SR22]. **Sign-Solvable** [KS02]. **sign-stability** [Cai93]. **Signal** [FM21]. **Signature** [HR85, GLR82, WT16]. **signatures** [PT10]. **Signed** [HLP03, ADHM19, BPW16, BB19b, BBCD21, BP16, Dua22, FDD14, FKC19, GVS96, KS17a, MR18, Ram22, SSG12, SRD19, SR22, Sta22, TI77, TWZ16, Wan19a, WLF22, Wan05]. **significance** [ShDHG08]. **Signless** [LLP18, MH16, NC22, WBZ14, ZZ15, ABGP21, AH16a, Ash16, AOTR11, CHQ18, CZ21, CFLL23, DAH19, Das21, FYIS13, HL22, JS22, LZ11b, LS21a, LL15, LZ15b, LDL17, LW22b, LY22d, LHH18, Obo22, PRAC22, SYZL17, SHS17, TYC21, WH11, WZ13, XZL14, XLS20, ZW17a]. **Simić** [Ano16b]. **Similar** [Bou13b, Joh81a, CLNT17, Liu18b, Lon90, Slo17, Sło18a].

similarities [Bal75, Bal76, CT22, JP17, LT89b, Li91]. **Similarity** [Bea86, BB75, DS09, GP06, Gur97, New82b, New85b, RJ04, Wat84b, BGdH92, BG82, CR77, DHB07, DKK19, FW13, GB77, GHV99, GL97, Gus81, HX21, KL22, KT19, Kur04, LT89a, LT90c, LT92c, LM93, MW74a, QC23, Rob75, SS22, Sil88c, Sil90, Sil93, SS96, Sta23, Tia11c, Wat82]. **Similarity-preserving** [RJ04]. **similitude** [Vin06]. **Simon** [Raw81]. **Simple** [Mag22, MP87b, ALPM20, BHH+11, BZ22b, Che07, CW11b, CX12, CY22b, Chu84a, GT11, HPV84, HPV88, LQ95, Lip96, RZ17, Tan18c, WY11]. **simplexes** [ST86]. **simplic** [Rad80]. **simplices** [BS08, Fie95]. **simplicial** [Tam77]. **simplicity** [Mar00]. **Simultaneous** [AY74, BT90, Gow22, Grü76, Laf78, Bed10, HH85, LLLY23, MS10b, Uhl79]. **Single** [Mer83b, DS22a, Đok09, JP87, JNS23, Mel13a]. **Single-hook** [Mer83b, JP87]. **Singular** [ANK22, BI95, GHT11, Hil17, LT92b, MS85b, Mir81, NS99, RS17, Rum97, ST00, Ter22a, ZL18, AG22, AJL14, AHJ87, Bap87, Bea85, Bot94, BC94, BZZ11, CS23, CQW16, CS19, CL22b, CH87, CZ22, DLL19, DdF15, Düf97, Fra13, GA18b, GAMA23, GRSW92, GL16, Gut22, HRT15, Hua22b, JW22, JN90b, Kar83, KS09, sL19b, Lék19, Li84, LT90a, LT93, LP93, Li95, Li21b, Mat92, MS12, Nie10, NF19, RS07, Ric78, Sad23, SRT22, SDL10, Tho75a, Tho75b, YZ16, Zha00, Zha20a, Zha19, Zou20]. **singularity** [BL21, LB19, Shi15b]. **singularly** [CDG23]. **Sinkhorn** [Car19]. **Six** [Min74c, DZ22, Hua01, LHS+21]. **six-term** [Hua01]. **sixth** [Wan07]. **size** [CH22b, KS93, KS17a, LS22b, SKLS20, SKLS21, ZXL22]. **Skew** [CS10, CT16, CW23, AN19, AM13, AADD18, Arm17, AA20, Ben18, BCT23, BE22, BZZ10, CT09, Chu90, DD15, DS23a, DH11, DLSS18, DMS23, ETM22, Fur11, Gog21, GTLN18, Gon17, Kyr11, LW17, LTT11, LCL14, Lop11b, Lop18, MS16a, Mat92, Neu83, Nof15, PM85, Rod97, TKT19, Ter22a, UF22, Zha16a, ZLZ+22, ZQZ21]. **skew-adjoint** [AA20]. **skew-circulant** [ZQZ21]. **skew-Hamiltonian** [Nof15]. **skew-Hermitian** [AM13, LW17]. **Skew-rank** [CT16]. **Skew-symmetric** [CW23, BCT23, DH11, ETM22, Lop11b, Lop18, Mat92, Neu83, Rod97, UF22]. **skew-Takagi** [Ter22a]. **skewsymmetric** [LR13]. **slice** [LKLC22]. **slice-stochastic** [LKLC22]. **Small** [Fer10b, ST97a, Bre15, CGH14, Đok09, Fer09, LLT93, Mes13, Pat83, dSP11, PGLM00, SS12]. **smallest** [ABP22, CL86a, CL86b, Dec95, LLF08, LHH18, Obo22, PLH01, Sad23]. **Smith** [Arm17, BK17, Cha96, Der83, GRMA13, HS96, IH11, Koo95, LLC22, LT12b, New94, Pro95, Tho88]. **smooth** [Rao18]. **Smoothness** [Sai21, MPD22, MDP22, SPMR20]. **Sn*** [GGH22]. **sole** [dSP12]. **Solution** [JSY14, AHK92, ALP94, BZZ11, Che93b, Che93a, De 13, DM22c, DWL14, FOT23, FS19, Gra80, HKT15, HW14, HBP18, HM18, HM22, JS84, JN14a, MK16, Min80a, SLH20, SPM14, Vei83a, WZH13a, WZH13b, WXD21, Wan22a, WLZ22, YL11, Zha04c, Zha16b, ZL21]. **Solutions** [DH03, Fla74a, Tia03, YCZ21, Bak84, BBP78, CC17a, CH12, CCL10, CDF21, CIDK07, CID16, DH86, DH11, FHW16, FNW18, HW15, HSX16, HWL21, dJfLlZ+21, KL22, Kyr21, Li85, LD19, Pen15, PM78, Rom22a, Son14, Wan15,

WHL22, Wer84, XSL15, XW22c, YZL17, YTL20, YZL22, ZLZ+22].
Solvability [Lev74, fLLL+17, VM18, YqS16, AG15, CIRW21, HWL21, JvdD91, KP11, Lip96, Mil22, Tia00, vWZ19]. **Solvable** [ACO21, AK21, KS02, BL10, BCS18, CSG22, CLOK13, Far93b, KLO14].
solve [BS17d, HM20, LT10, PLPC19]. **Solving** [BB19c, ESH23, Kul22, ST97b, CW20, CL22b, KM17, fLLyP15, LZ16, LZ19b, LC18b, LW10, SW22, WX19, XJW17, ZZL23, ZWZ23, ZV19, ZZT23]. **Some** [AEAAES20, AAK16, AN14, AAD22, AW07, Amm18, AdF21, AyT84, BS15a, BM19a, Bal75, Bal76, BCNG23, BG83, BD94, BZ19, BKL97, BP22, BZZ10, BSZW13, CT22, Cha89, CHFC19, CL94, CF23, DH17, DST91, DCIW10, DV18, DH91, Dra16, Dra18a, Dra22a, EMS02, EB17, Fan92, FM22b, FH15a, GLOT13, Gai77, GA18b, Gro97, GX17a, Han19, HS83c, HS96, He21, Hua08, Hua09, HXL16, HM19, Iop19, JKZ20, Joh82b, KI16, KDHJ22, KMS18, KS84, Lék19, LT88d, Li96, LM98, LN98, LS22b, LS21b, Lu22, MM06, MW80, MR97, Mar92, MH22, MH12, MTR11, MŠ98, MFS22, New75, Odo83, Oku93, PS22, PH15, Pop14, Raï19, Ram22, Ras19, RSM21, SRS21, SWH22, SQH15, SSfW15, SG96, Sim95, Sin82b, SWZB15, SZZY18, Tam77, TJG22, TT78, Tau74, TC04, Tia05b, Wan82, WH12, WWW20]. **Some** [Wer87, YT15, Zha00, ZN18, ZW19, ZW17b, dF11, AKR23, AE10, Alo21, AAdFS19, AA20, AZ22, BK17, Bel15, BH74, BM18a, BZ89, BSA17, BE22, BD14, Cal94, CGOT13, CX23, CGMR11, CKR21, CB22, CL13, CM15, CL01, CIRW21, DP17, DLD22, Deu80, DHT94, Din15a, ĐDJ76, Dra21b, EL09, FD12, Far22, Fen10, FLT20, FH15b, GGGA21, GA18a, GS21b, GS21a, GP15, GT11, GLLM21, GC22, GL97, HE20, HH22a, HW15, Hua16, HLH18, HWZ18b, IAM23, IOMAN21, JKD16, JN22, KMRS89, KN22, KS19a, KSMB16, KS22c, KT06, Kop94, KAE22, KL92, Lei95a, LT87, LT88a, LPS13, LH21a, LD19, LF21, Mah82, MSS13, ML21b, MP87a, Mar89, Mar00, MT11, MM07, Meh84, MOGN18, Mos20, Mou13, Mou20, New80b, Nie10, PN22, PLLL20, PP16, PM78, Reg93, Rho87, Rho90, SRK22]. **some** [Son14, Sta84, SL17, Sur98, TKT19, TL12, Tra89, Tra90, WX19, Ye11, ZWL15, ZL22, ZLZ20, ZBW12, dC15, dC18, Ano22c]. **SOR** [ZZL23].
SOR-like [ZZL23]. **sorting** [CW91]. **Soules** [Pat89]. **Sp** [Ber86].
Sp-modules [Ber86]. **Space** [BLdPS04, ACI15, ACO21, Adh13, Alo21, Alo23, AGR91, AJL22, BDK21, Bea85, BHK21, Byt20, CDJ13, Cla92, CR77, CF23, Dag23a, Das17, Das18, DTS14, DLD21, Đok83, EB17, Fla75, GGGA21, GJR22, HT12, How80, HFSZ22, IK20, IK22, JVMCPR19, JC22b, JS15, LYZW12, LRD21, MW18, MS88, MM09, MC19, MM20b, MN13, OM21, Pat77, PS20, dSP22, QHB22, Rob75, RBB22, RF19a, RSM21, SPMR20, ST19, SA10, TD14, TRM22, WTD22, WT23, YGÇ19, ZMCN19].
space-fractional [HFSZ22]. **space-time** [WT23]. **Spaces** [AW83, BR04, HLZ02, LT92d, NTW23, dSP12, Wes74, Wes87, Zha04b, AF12, ACMS10, Atk84, AY84, BB22, BFM20, BN22, BT13, BS22a, BBT07, Bar07, Bea85, BL97, BdPN14, BZ89, BPR12, Boz97, CMR20, CKS19, Cha79b, CL83, CSS21, CDPS23, CZZH22, CFZ23, Che91, CLN13, Con77, CDF21, CAP22,

DH17, De 08, DP09, DV19, DH20, Đok90, Dra10, Dra11, Dra16, Dra18a, Dra19a, Dra19b, DK22, EDKA07, Edw80, ESAJ18, Erd22, EBB18, FU20, FGMSS19, FLR85, Fri97, FZ21, Gil16, Gra80, GBM21, GX17b, GLL21, HNB22, HSM17, HS85, Hol95, HF18, Hos22, HCS19, Ilk20, IKR12, Jam95, JS20, KC16, KI16, Kar23, KL15, KT83, Kru06, KMEO12, LLMT05, LLHS18, LL20, Lim90a, Loe01, MSS13, Maj22, MDP22, MID17, MZ91, Mer78b, Mes90]. **spaces** [Mol15, MAT22, Mos19, Ogu20, Ota20, Pan15, Pas15, Pat17, dSP16a, dSP16b, Pet09, RT09, RS85, Rao18, Rod81, RŠ06, RŠ08a, RŠ09, RF19b, RB22, RS23, SM23, Sai21, SRT22, SRBB22, SES21, SZ85, Sel81, Sha18, SN23, TD16, Tal17, TD19, TZ19a, TZ06, Til77, Tom19, Vel18, Ven19b, Wan82, WWS19, Wes90, Wes95, YQ90, ZS05, ZCZ12]. **Span** [Zha01a]. **spanned** [Bun94]. **spanning** [CJY22, DWL20, FGHL22, FTA20]. **Spans** [How86]. **spark** [AB19, MO22]. **sparse** [CW20, DK23, Sol14]. **sparsity** [SM94, tHK17]. **spatial** [LMMR15, ZQZ21]. **Specht** [MMR07]. **Special** [Abd20, BE20, LPT13, AG16, Bas17, CL91, CL17a, Đok09, Elg22, GA18a, HS83c, Joh81b, JLL88, KS22c, KL21a, KS76, KV13, LT09, Ma15a, Mal95, New80b, Phu80, Pop14]. **specializations** [MF77]. **specific** [Shi18]. **Specified** [Che03b, Ano79b, JKS79, Kap77, Kir14, PRS03]. **specifying** [Joh77a]. **Spectra** [AGH$^+$22, BP16, DKY22, DWCD19, ESAJ18, Gol16, Gol21, JKZ20, LZ15a, LPT11, LM10, LZ14b, MOTvdD03, MGA17, RP22, YW19, AADdF23, APEPPS23, BHC16, Bar08, BS17a, BDS13, BJS15, Ber05, BPR20, CL17c, CTY20, CD15, Cro18, CD85, DFPS23, DK17, Fri82b, Fri12, GR93c, GM90, JKD16, JP17, JMS15, Kra06, LS10, LLD17, LXS21, LS21b, Meh84, Mir18, MA15c, NP15, NP09, Sah21, SES21, SHC22, WZ13, XS18, ZLS11, ZG08]. **spectrahedra** [KRR18]. **Spectral** [CBZ22, CKM18, DH22, FJK22, Fla74b, FJ01, GMV23, GN20, Gho19, GS20b, IS15, LN16, LLF18, NG15, OST20, RW22, SS23, SRD19, TZ19a, Tos79, Tur02, WY20, WYSL22, WC12, XQ16a, Yiz02, Yiz03, ZB13, AAS14, AL21, ACMR17, BPD88, BEH19, BD84, BKL97, BE22, BBZ15, CNW21, CCS16, CR22a, CHQ18, CZ21, CH22a, Che22b, CFLL23, Cos14, DFK19, DLSS18, Din15a, DIF13, EAM19, FTZ08, FGHL22, Far94, FLZ07, FYIS13, Fri81, Fri93, GB22, GL11, GTZ75, Gow22, GB11, GLS16, HH22a, HRMP95, HLW$^+$21, HLB22, Jaa22, JS22, JWBB22, Joh77a, JN90a, KOSS23, Kir04, Koz17, LP07, LLW$^+$11, LTT84, Li86, LMR94b, LT11, LT12a, LC14, LLP18, LP23, LS12, LS13, LL15, LZ17a, LZL18, LZ19c, LGZ20, LL10b, LH13, LDL17, LWL21, LW22a, LLGX22, LY22d, LL22b, LCG$^+$23, Lon83, LSZ86, Lu22, MH16]. **spectral** [MGKA23, MW23, MH22, MP96, MAM15, MA15c, NP13, Obo23, PG22, Pep11, Pep19a, Pep19b, PRS03, PGAB22, SQM99, SWH22, SQH15, SSfW15, SYZL17, SHS17, SR22, SKLS20, SKLS21, SZWB16, Sza09, TJ11, Tan13b, Til98, Ton87, UZ16, WSH$^+$11, WH11, WBZ14, WW15, WZ18, WWW20, WMFW21, Wan22b, WLF22, WW20b, WDJ10, XSW21, XSW22, XW19, XZL14, XYH22, XZW22, Xu22, YSY17, YHS13, YS23, ZXL22, ZQC18, ZG11, ZWL15, ZL19, ZW17a, ZW17b, dPN81, dlP09]. **Spectrally** [BM12, CM07, GHT16, IS16, MY12, ZHLZ13]. **Spectrum** [GMZ17, JC22a,

KLZ96, LLMT05, PS20, Rod03, Sen83, TN22, Zen22, AN19, AA21a, AJL22, Bal22a, Ben18, BR10, Boa13, BC20, BM15c, CP15, CIP17, DP17, DeV22, Gil12, GT08, HMO11, JX13, KP12, Kra05, KML95, LZB23, MM20b, NC22, PRAC22, QX23, RA21, RAN22, RP90, So99, WW12, Xu93, ZZZ16, dFK21]. **spectrums** [Sin82b]. **Sperner** [Can80, Har84a]. **spheres** [Đok81]. **Spherical** [Gam00, KKY22, CLL14, Da 88, DKY22, Gam18]. **spin** [Đok81, KLJ23]. **spinor** [AF12, Ger82]. **splines** [DTSI15]. **Split** [KADM10, CC22a, CT22, EÖ15, KL21b, Mar12, Poz22]. **split-quaternion** [KL21b]. **splitting** [HZV23, LW17, Pop20b, WZY22, WL22, Xio23, ZV19]. **splittings** [CP81, JM13, SGM22, SPS15]. **spread** [AFTG19, FX12, NT94, PGAB22, SdF12]. **spreads** [Tho92b]. **SQB}** [JLL18]. **SQB}-tensors** [JLL18]. **Square** [Bom02, CL74, JN80, MDW11, ZWZ10, AKS18, BL13, DGL22, Din15b, DS22b, Gre99, HL09, IK19, Kol23, LLW07, Mag22, Nir11, Pab22, dSP17, ST80, Slo16b, Sło18b, Sol80, Sta15a, XQ16b, ZWW10, dFSY22]. **Square-zero** [MDW11, ZWZ10, AKS18, DGL22, dSP17, Slo16b, Sło18b, ZWW10]. **squares** [AS95, AAB17, BTT20, Bur11, Caf13, DLQ18, Din98, Gra87, GK77, JS84, LW08, LW10, LZS23, Pen15, Ric85, Ric87a, SMF95, Sin73, Sin76a, TH80, Vas86, Wan15, Wan17b, WXD21, WLZ22, Wu09, XQZ13, YL11, YLW15, YZL17, ZWLZ22, ZLZ$^+$22]. **squares-total** [LZS23]. **SR** [jXL15]. **SSOR** [Neu84]. **Stability** [DPR22, FD12, JOvdD85, KSU22, Lee94, Lev74, LS22c, PT02, RRR93, TT18, BC83, BV16b, BKS12, BG21, Cai93, CCS16, CW17, Den14, DHKS16, Dra21a, ES98b, GPM98, Gór22, GX17a, HRT15, HS88, JvdD91, JvdD88, LLHS18, LZT18, Neu79]. **stabilizable** [Raï14a, Raï14b]. **stabilizer** [AF11b, JP86]. **Stable** [Fri84, GGL03, Raï14b, ES00, Jam88, Jam95, LC18b, ME18b, Sta84, Raï14a]. **staircase** [Hwa85]. **Stand** [De 82b]. **Stand-alone** [De 82b]. **Standard** [MŠ02, CW11b, HQ18, Rem82, YWO07]. **Stanley** [Har84a]. **Star** [BH16, Cve95, MRD15, Sta20, ACMS10, BS16, BH13, CT96, Cir15, Cir16, CC22b, DSD83, DF90, GS06, GLX22, HS83c, Kre16, Leg06, YZB22, dNV19]. **star-graded** [dNV19]. **star-shaped** [CT96]. **starlike** [OST20, ZB13]. **stars** [BF05, IK20]. **State** [CFP21, Are23, BLX18, BFZ07, CF21, CG16, DPP17, Gue17, Gue19, HRT15, KMP$^+$19, LLZ22, LCXC22, LCWW22, PB17, Pal21, TM19, TYC21, WC22a, WLW23, ZLZ20, ZQZ21]. **state-feedbacks** [HRT15]. **state-wise** [Gue17]. **states** [Drn13, HWSH13, Man17, WCS$^+$21, XXF22, ZBW16]. **Statistical** [DHT94, Mai11, SLW21, TS05, SAK22]. **Steady** [DPP17, ZQZ21]. **steady-state** [ZQZ21]. **Stein** [LZT18]. **step** [YD14, ZV19, ZZT23]. **Stephens** [Ano79b]. **stiffness** [LLLY23, XY22]. **Stinespring** [HJ19a, HJ19b]. **Stochastic** [Bar74, Gib92, Joh81a, Sin81a, SHC02, SJ02, Ach77, AS95, BWF83, Ben78, Bru85, BS08, BD13b, BD22b, Bur95, CMP22, Cha83b, Cha84a, Cha88, CBQW19, CL05, DPP17, Esh17, Fie90b, For79a, FS86, For88, FM78, Gib76, Gol92, GLP92, Har81a, Hwa85, Hwa91, Joh73, Joh74a, Joh81b, JNS23, Kir09,

KS76, KS82, LLL15, LZZ17, LKLC22, LM89, Mal91, MKS84a, MR07, Mer98b, Min75, Min82a, Min84, Mou04, MAM15, MA15c, ME18b, NMAB22, PG22, Phu80, Pif87, Sen83, Sin73, Sin76a, Sin76b, Sin77, Sin80, Sin82b, Sin84a, SW22, Wal75a, Wan76, Wea83, Web83, Zha14a, dF13]. **stochastically** [Lon90]. **stopping** [Zar01]. **Størmer** [HOT15]. **straight** [HT91b]. **Straightening** [Wil99, CW89, Cla82, Mal92]. **Straus** [MS82b]. **strength** [BO22b]. **Strict** [Mum86c, vE22, AMK23, CC98, Mum86a]. **strictly** [BCKP10, CW16, Józ15, Ner22, Neu83, RQ22, ZCY22]. **Striped** [MOTvdD03]. **Strong** [DS13, FG02, HQ18, LL11, Liu15, MO91, QH17, Ska17, AHJ20, AHJ21, AV22, BGM22, BS20, CY22b, Cir17, CC22b, DA22, HA22, Har84a, HM19, LCLL22, Mos21b, Pan13, PSB23, SSG12, TKT19, XW22a, dB14a]. **stronger** [RST22]. **strongly** [ADRP14, BP89, BP90, BP92, BL93a, Cam14, DFK19, FM22a, FG06, Gol06, Sta20, Tan18b, YW10, YBCW96]. **structurable** [EKO14]. **structural** [AAB15, BDV19, DPvW13, FSvW11, GPM98, HLZ11]. **Structure** [Gur80, AMZ13, Boz97, CM22, DH20, FJ15, FJ09, GL85, GH23, Grz89, Heo16, HSM17, HM18, Kra05, KMS07, Kre16, LWZ15, LEH96, Ma22b, MHH96, Mar12, Mer78c, Min74a, NP09, RJ04, Tom19, WZZ22, ZZ00]. **structure-preserving** [HM18]. **Structured** [DA22, MHM22, BR01, GC22, Mag83, MMRR16, MS15a, SRK22, YW16]. **structures** [ÁBvW16, DLD22, Hon19, LGB17, Sin21, So90, WZH13a, WZH13b, Wil73, Wis12, YH22, ZLS22, vR11]. **study** [CW89, Fri78, HRT15, Mis17, SRBB22, TJ16]. **Sturm** [GMZ17]. **style** [Wat85a]. **Sub** [CK17, AA12, BZZ10, WM17]. **sub-additivity** [AA12]. **sub-block** [BZZ10]. **Sub-defect** [CK17]. **sub-long** [WM17]. **subadditive** [Tik98]. **subalgebra** [NJP19, SZ19, YWO07]. **Subalgebras** [Ake83, DR18, BZ19, BTV07, CW11b, CX12, CW12, CY22b, GLOT13, LZ09, LCL13, Liu16b, Liu19, LT22b, MPGS21, Ous15a, dSP11, Tow22, WOW09, WY11, WL16a]. **subclass** [RH11a, RH11b]. **Subclasses** [Dra18b]. **Subconstituents** [GWZ14, GWZ16, HZ21]. **subdefinite** [DN18, ND13]. **Subdirect** [GHL20a, LLGL16, LMLL17, LHGL22]. **subdiscriminants** [Dom14]. **subdivision** [CMM17, CMM20, Che18, DP17, LPH17]. **subdivision-coronas** [DP17]. **subdivision-edge** [LPH17]. **subdivision-vertex** [LPH17]. **subdominant** [Kir09]. **subgraph** [YZB22]. **subgraphs** [AAT17, FG06, HW88, LS09, SS23, Tik22, ZWL15]. **subgroup** [MS16b, Shc21, Sur98, Wan16a]. **subgroup-relation** [Wan16a]. **Subgroups** [LLT93, Sch79, Chu84a, Da 88, Den05, GL97, Hua90, Les93, Ner22, Sun21]. **subject** [Wan15, YqS16]. **Submajorization** [AR22, Han17, BCK15, LP22b]. **submanifolds** [RBB22]. **Submatrices** [LP03, Che22a, Cho82, Cra09, De 82a, FJM00, FT21, Fie81, GKV89, HS87, HK17, Joh84, Loe87, MN96, NTU93, SP87, Tho92b, Vei82b, Zab89, dO75]. **submatrix** [DS09, XY22, ZHZ11]. **submodules** [GS20a]. **submultiplicative** [Kra05, Kra06]. **submultiplicativity** [HJ87, JN90a, JN92, JN00, Mer78a]. **submultiplicity** [BB15a]. **Subnorms** [GGL03, GL01, Gol07].

Subpermanents [Min75, HM95, MM90, Mal91, Vrb86]. **subrings** [MP87b]. **subsequences** [ACJ17]. **subset** [Bal79a]. **subsets** [MO13, ySpW22, Tom19]. **Subspace** [Pat17, BEH19, Das18, DH20, EJS22, GP06, Jaa22, KV23, LH22, LC18b, MW18, YW10]. **subspaced** [RRR93]. **Subspaces** [BR04, CD01, Gal08, haYsS99, BG86, CDJ13, CLW15, CLR81, CHK00, CS95, CF15, Dat16, Far94, GQ06, JS94, JP15b, KMEO12, LS22c, MMRR09, Pat77, Pat84, Ras19, Rod81, SSGP23, ySpW14, Tam98, WG91b, XFG14, Zha13, dB16]. **substochastic** [CKP16, CK17, CCKL20, CCW20, Esh22a, Esh22b, Gib92, Har84b]. **subtends** [Bal80]. **subtraction** [WTD22]. **subtractivity** [Zha05]. **subunitary** [ZYL13]. **subvarieties** [GP15]. **such** [Fan92]. **Sufficient** [CHQ18, CC98, EOvdD09a, EOvdD09b, Gue19, LP23, LOO22, AW07, HB83, Pal79, Rou98, SQ15, Wan82, ZW17b]. **Sum** [KR02, KL13, Ami80, Ash16, BST23, Ber17, BP09, Caf13, Cal97, Cal99, CS22, Dji16, Fow80, FMXZ22, GR14, Gra87, Gro99, HP90b, HLYZ22, KM85, KLO14, LPS08, LLHS18, LT13, LSX19, MW18, MM90, Mal91, MV91, Nor08, QK92, Sil88a, Sin90, TH18, TCI13, Vas86, Vas87, XQZ13, Zel85, Zha05, ZMG20]. **sum-of-squares** [Caf13]. **summation** [IW95]. **summing** [AAPR19, AP17, BMP10, BPR14, Cam14, PR12, PSS15, RSPT17]. **Sums** [BC17, BCKP10, Bur11, CQ18, DRW93, FT21, dSP22, Sil90, Slo16b, Tho86c, Bal79b, BHK10, Bre18, BD22b, De 90, De 78, DHS95, FV97, GHL20a, Gar21, Gol92, GK77, HO17, Kar83, KW21, KK22a, Kur04, Lew96, LSOvdD95, LLGL16, LMLL17, LHGL22, MRT12, MH19, PH15, dSP17, Ric85, Ric87a, TT12, TZS19, TH80, Tho92c, Tia05a, Wan76, Wu22, dP74, vR11, Sło18b]. **Super** [CCC21, CPT15, FD17, KV22, LS22a, AA12, LOO22, MZ17, Mit10, Zha21]. **super-additivity** [AA12]. **Super-biderivations** [CCC21, FD17, LS22a]. **Super-linear** [KV22]. **superalgebra** [CCC21, CPT15, CMDE19, DH18, GMZ11, HH22b, SYZ22]. **Superalgebras** [LR13, dNV19, AH20, BMN22, CPS22, CV94, FD17, FdSV16, GLdS22, GdSV16, HLS18, Lee94, LCC19, LC22, PN22, WL16a, Wan16c, WL16b]. **Supercharacter** [Sun21]. **supercommuting** [HDJT97]. **Superconvex** [AFA22]. **Superconvex-cyclicity** [AFA22]. **superderivations** [GLdS22, LC22, SYZ22, Wan16c]. **supereigenvectors** [lWW15]. **supereulerian** [WYSL22]. **superinvolution** [LR13]. **superoperators** [JP15b]. **Superoptimal** [DS02a]. **Superposition** [Ogu20]. **supersolvable** [Tow22]. **supertree** [Wan22b]. **Supertropical** [INR18, IKR12, IK20, IK22]. **support** [Cao19, WZD16]. **supported** [HMO11]. **supports** [Hil18]. **surfaces** [BFM22, FYIS13]. **Surjective** [Cos14]. **surjectivity** [BGLSSS20, ME18a]. **survey** [Ano92g, BL92, CR90, Far93a, KS17b, Mer95]. **SVD** [Gut23]. **SVEP** [BZ22a, DC20]. **sweep** [WL22]. **switch** [GKT97]. **switch-setting** [GKT97]. **Sylow** [Sun21]. **Sylvester** [Bar80, Bay22, Bed11, BS17d, DH11, DM22c, GPM98, Haj18, HKT15, He21, HM20, HK17, KM17, Lei83, SWL13, WXD21, XW22a, dFK21, dCdSA22].

Sylvester-like [KM17]. **Sylvester-transpose** [BS17d]. **Sylvester-type** [He21]. **Symbiosis** [NT91]. **Symbols** [GN02, KLL22]. **Symmetric** [BS17c, BBM15, CCLL22, CKMY22, CA03, CD03, DS02b, GR81, JT04, JMP17, LR96, Pat81, Pie85, Zha04b, All14, BH23, Bal14, Bal18, BL97, BS16, BS17b, Ben90, Bén11, Ben74, BH74, BB75, BB15b, BLSV12, BCT23, CKGP21, CL85, CFSGL18, CL92, CSS21, CDPS23, CFZ23, CW23, Che91, CT09, CLNT17, CLN13, CK19, CKKY23, Coe96, CW93, DH11, Deu80, DIJ23, Đok75, ĐLR91, DCLW19, Elg22, ETM22, Fan73, FJ15, Fit94, For87, FM22c, GS06, Gib76, Gon17, GZW20, HHC12, HWL92, HJ20b, HZS22, IAM23, JKB17, JR09, KKL22, KL19, KKR12, KN81, LR13, Lei95b, Li87b, fLLyP15, LM95, LLL09, LL10a, LZ19b, Lim79a, Lim90a, Lim92b, Lim92c, Lim97, Lim10, LT14, Liu92, LTT11, LGB17, LPX23, Loe01, LS21b, Lop11b, Lop18, MM05, MS85a, Mat92, Mat11, MQ21, Mer94, Min76]. **symmetric** [Mir18, MMG15, MAM15, MA15c, Neu74, Neu83, New74, Nom73, NTU93, OP13, Ore19, Pat83, Pat86, Pat92, Pat08, Pat09, Pat17, Pen15, PM81, RR91, Rei75, RW96, Rod97, SRBB22, SG09a, SN22b, ST91, Sou83, Sra20, Sta23, Sta14, Sta15b, SvW14, TXL21, TMH21, Til77, Tre87, Uhl79, UF22, Wag87, Wim85, Zha05, dCH21]. **symmetric-indecomposable** [BB15b]. **symmetries** [HWSH13, XHL23]. **Symmetrization** [HO17]. **symmetrize** [Pat90]. **symmetrized** [BJ93, BD97, Gam18, Hol95, HT12, MC78, Mar78, MC83, MC89, Mer77, WG91a]. **symmetrizers** [CdS03, Uhl13]. **Symmetry** [DF95, HT92, HK16b, MS08, MR74, RC18, Wil81, Cha78, CL86a, CL86b, CL13, DP00, Der83, Fin92, HLS18, Hil76, HK13, Jin17, Jun88, KCBR87, Lim76a, Lim76b, Lim82, Lim90b, MC82, MC86, MM76, Mer78c, Mer79c, Pat95, Rob77b, yT86, WG91a, WG91b]. **symmetry-antisymmetry** [Pat95]. **Symplectic** [BB21, BB17c, Ter22b, Chi22, DP09, Den05, Don91, FP17, Hou22, LYS15, Mal92, MC19, MMRR09, New75, Shc21, SM19, Zha22]. **synchronous** [ZV19]. **system** [DH11, ESH23, FHW16, HW14, He21, HM18, KO10, Lop18, Mil22, Ned98, NF19, Pop17, SPKC15, Sti87, WLZ22]. **Systems** [Gib89, JR93a, KS02, KT83, Lev74, BH23, BC83, BNKJ22, BE23, Cam83, CNW21, CW20, CJ12, CF15, CFP21, CIRW21, DPP17, DH86, Din00, Doo16, EKO14, Elg22, FNW18, Gow22, GR93c, GC22, Hai92a, Hai92b, HMAD13, HW15, HRT15, Hla17, HWL21, Hua22c, JS84, JL22, JT23, JR93b, JSY14, KP11, Kul22, Kyr21, LF15, Lia80, LZ19b, Lop11a, MC17, MG22, MW19, MHM22, NT91, Roh91a, ST86, Sin83, Son22, ST97b, Wer84, WW80, WL22, XLL15, Xia20, XJW17, Xio23, YqS16, YZC21, ZWZ23]. **syzygy** [HJ20a].

T [Ano16b, Slo13c]. **T.** [Cha84b]. **T=AB** [AP74]. **T=AB-BA** [AP74]. **table** [Sin21]. **tableaux** [Ber86, Chu90, CPT15, Don91, KW92, KW93, Mal95, Rem82]. **tails** [Gol16, Gol21]. **Takagi** [HZ12, Ter22a]. **taken** [Odo83]. **tall** [SMS21]. **tangent** [BB13, TG23, Til77]. **Tate** [AST07, GR14, Rom07]. **Taussky** [JZ95, Joh90, Sch77]. **Taussky-Todd** [Sch77]. **Taylor** [MZ22]. **TD** [HZH20]. **team** [KS93]. **technique** [DLL19, FN14]. **Techniques**

[BT17, Whi75, Whi79]. **Temperley** [Byt20]. **Tensor**
[BB13, CHS22, lLZjZ19, LLV18, Pat92, Wil73, Wil99, Bal14, Bal18, Bar76, Boa13, Bre16, Byt20, CX23, CL85, CKR18, CKR21, CL83, CQW16, CY22a, CKL16, CW22, Der16, Der18, DM18, Din15b, DH16, DCLW19, EJS22, FHL+14, Fow80, Fri82b, Gam18, GPW22, GWW15, Gil16, GLM+22, Hac22, HMR22, Hol95, HT12, HM20, HM22, HWSH13, IAM23, dJfLlZ+21, Koi21, Kru06, LL16a, Lee94, LXQ21, Lei18, LN14, LZZ17, fLLL+17, LZ19a, Lim92a, Lim15, Liu18b, MC80, MS88, Mar11, McF79b, Mcf79a, Mer78b, MWC22, Neu74, Ng14, Nir11, Nor95, Nor08, PM22, Pat87, RSPT17, STME10, SN22a, SWL13, Ven19b, WX19, WXD21, WLZ22, Wes95, XJW17, XJS20, XW22c, YLX20, YQ90, ZXF15, Zhu22, Zus22, PMP22]. **Tensoring** [Abd09]. **Tensors**
[Lim01, MR74, BD97, BM17a, BS22c, Cha78, CL95, CBQW19, CK19, CCLN16, CPZ17, DP00, DM19, DM22d, DF95, DL22, Đok75, DNY22, FDLB20, GMV23, Gau76, GR10, GZH19, GY22, HKv23, Hil76, HT92, HK13, HK16b, HQ14, HM19, JLL18, JZL20, Jin17, JKB17, Jun88, KSMB16, KJ13, LPZ13, LZ01, LL16b, LZL16, LCLL22, LZT18, LKLC22, Lim76a, Lim82, Lim90b, Lim92b, Lim97, Lim10, Liu18b, MS08, MC78, Mar78, MC82, MC83, MC86, MC89, Mat11, MM76, Mer77, Mer78c, Mer79c, MSS18, PBM20, Pat77, Pat90, Pat08, RS17, Rob77b, RC18, SL19a, SQH15, SN22b, SQ15, SĆK+20, Sta14, Sta15b, SLH16, SLH18, SL21, SF17, SMS15, SMS21, SZWB16, SZBW16, SZZY18, Sun20, yT86, Wan82, WG91a, WG91b, WLX16, WSZL17, WWW20, XQ16a, XHL20, ZL18, Zha19, dP74]. **Term**
[KS12, BSL01, BS16, CR22b, Hua01, Kom10, YLX20]. **terms**
[Bal14, CHQ18, Dua22, HHY22, Kir00, LL15, MF20a, Pan13, zSqSZ16, TW19, WWZ20, Wan21, WL23, ZBW16]. **Ternary**
[ABM22, BX11, BP09, Bus23, KPS19, LLY22]. **Test** [BC85, LB19]. **tetracyclic** [GH22]. **th**
[HL20, IAM23, KW21, LT91, LLS10, NMAB22, SSG12, yT86, vBW95]. **Thanks** [Ano10, Ano11b]. **Their**
[SK03, AdFK15, ACJ17, AKOZ20, BS15a, BS92, BS16, BS17b, BS17c, BS22b, Che92, CBZ22, CFZ23, CL14, CTY20, CAP22, DL22, GKS01, GL16, GLS16, GZ22b, HLT22, Hon93, HL18, Ilm16, Iop19, KJF23, KS15, KT19, KE82, KAE22, Kut19, Lei98, Man91, MP90, MMRR16, Mia93b, Moh16a, MA15c, NS85, Nor08, PP22, PV23, Pow88, QM21, Ric81, SLW21, SU77, SS23, SA21, SLUG04, Sin93, SL95, Sra20, TT12, TZ19b, Ter22b, Tia11c, Tia18, TMOvdD93, Tur02, Uhl99, Zha97, ZBW16, ZY08]. **Theorem**
[BBM20, LMMR15, Mac09, Pop20a, Adk95, AM15, Aha76, Ari16, AY95, BGK99, BGK00, BZ22a, Bla77, BS22d, Bun91, Car19, Chi11, CPLH17, CC18, DFK19, DMV18, De 75, DP18, Đok17, DC20, Els78, FW13, Fie73, Gar75a, lGyW99, GJR97, GP22b, GS77, GS83, GT11, GMW86, GPR84, GX17b, HL84, HJ19a, HJ19b, HJ20b, HS75, Hsu85, Hua09, Hua23, IT16, JLL11, Kat75, Kov86, Koz17, Krä87, KLO19, Laf80, LRR87, LN80, Lim76b, Mag22, MMR07, Mar78, MS82b, Mel18, Mer89, Nag17, Nas75, New76a, Pas15, Paz84, PSS15, Pop22, Pul75, QLK22, Ras17, Rei83, Rem90, Rod22, Roh91a, Roh91b,

Roh04, Roi99, Rub20, SV14, San18, ST80, She77, Sin84b, Sou86, Tam97, Tan18a, Tan20b, TZ17, Tau73a, TS05, Tos79, Wes75, Wes81b, YLL90, ZLS11, Zha15b, ZN18, dPN81]. **Theorem** [HWY17]. **Theorems** [Jun88, AEV12, AyT84, Bar07, BGLS07, BT22b, CMR20, CM84, EL09, FD12, GL85, GL16, Gut01, Hon91, Hsi78, Hua16, HWZ18b, ISCS11, KK18, LRT91, Li96, LM98, LN16, LW17, Liu22b, MP87a, Mar89, Mas10, MS81, ST86, Tan13b, XLL15, XFG14, ZV19]. **theoretic** [Dom14, KMH19, Mou04]. **Theoretical** [Far17, Ari16, Cla92]. **theories** [Sun21]. **theorists** [Sch77]. **Theory** [Min83, Min87, Adu15, jAS21, Atk91, Bal23, BOvdD95, BG23a, BL80, CdS03, CNW21, CW81, CD85, FGK23, FW73, GMV23, Gar73, Gau76, Gor83, HCS19, Joh82b, JSY14, KN81, Kri87, MH22, MMRR16, Mej19, MN96, MP21, MA15c, PT10, Sch22, Sch77, SQH15, Ste82, Tho90, WY21, WW76, Whi79, Wis12, XQ16a]. **There** [DKK$^+$20, Stu92]. **Thin** [Mou20]. **third** [BB19a, GM87a, Guo07, PLH01]. **Thirring** [TWK22]. **Thompson** [Ano97b, Day97, GPR84, Hia94, New97, NT94, Tam85, TWK22]. **those** [Pat83, WW12, ZH22]. **Three** [CR22b, GN02, MS82b, Mir81, Slo15a, Wil83, Abd09, AR15, AOTR11, BSÜÖ13, CLX22, Cro18, GG22b, GSZ22, Gue19, Hou09, HL22, Li84, LT12b, LZ15b, Mil22, MMG15, NR23, dSP17, PGLM00, Sch79, TZS19, TH80, TRM22, Vas86, Wri93, XL11]. **three-dimensional** [NR23]. **three-state** [Gue19]. **Three-term** [CR22b]. **Threshold** [HMK22, LCL22, AAKS21, KADM10]. **thresholding** [GLM$^+$22]. **tight** [DO19, JW22, Kim13]. **tightness** [MNS22]. **Time** [Uhl99, CW90, FK91, Gue19, HKT15, Kas85, WT23, ZZ21]. **times** [Che18, GLLM21, HWX22, HL18, KN00, Zar01, ZL22]. **TN** [CJ20]. **Todd** [Sch77]. **Toeplitz** [ACI15, BG83, BdPN14, Boz98a, Boz98b, Boz99, CDPS23, CN08, CLNT17, DOP22, Doo16, Elo18, FH89, GR91, GR93b, Gou13, GHL20b, Hil17, HM76, HM78, Ikr15b, JTW17, JS91, JKKC22, KN22, KKL22, KT21, KL15, KLL22, KAE22, LL14a, Mar20, Mel12, Poo17, Sol06, Til98, Tis93, Tre85, Tre86, Tre87, YZL17, Zim89]. **Toeplitz** [**?**]plus-CauchySolak:2006:RPN. **Toeplitz-plus-Hankel** [Ikr15b]. **tomography** [Rau18]. **Top** [Coa99]. **topheavy** [BC80, FH73]. **topics** [McD92a]. **Topological** [MAH18, MAH21, BGLSSS20, EB17, GP22a, Hau12, MVPS14, MRS10]. **topologically** [GS20a]. **toroidal** [Ye11]. **torsionfree** [BDvW16]. **Total** [Wan17b, XW22a, CC23a, Cao19, CC98, LLW07, LZS23, YC19, Zar01, ZWM17a]. **Totally** [CJ12, WHG17, AB19, BGGS17, CCU21, Cas23, DJK08, Gar85, RBB22]. **Tournament** [MP90, BCCL22, Dec95, KS93, Kir93]. **tournaments** [DLSS18, JKY23]. **TP** [CJ20, JN14a]. **Trace** [BF15, Epk89b, Epk89a, FG22, GR14, Gur98, Kov77, Kru06, Lew96, MP13b, AW07, AST07, Car06, Cho18b, Dra16, Ebe80, Gal79, Gei78, IAM23, Kap77, KMMS22, Mau78, MR19, Reg87b, Rem88, Rev81, Rob77a, Rom07, SQH15, SW81, Tik98, YSK15, ZY13, ZX16, ZBW16]. **trace-distance** [ZBW16]. **trace-form** [Mau78]. **traceability** [Lu22, WY20]. **traceable** [ZW17b].

Traced [RSPT17]. **traceless** [LT14]. **traces**
[Cho18a, Fra13, LWXF15, Wan16d, XWF15, XZ18]. **tracial** [BZ19, Man17].
tragedy [Die79]. **trains** [HMR22, HWSH13]. **transfer**
[Are23, CF21, CG16, KMP+19, LLZ22, LCXC22, LCWW22, PB17, Pal21,
TM19, TYC21, WC22a, WLW23, ZLZ20]. **transference** [FP17]. **transform**
[AL78, CM19, DL22, DKY22, Elo18, JLL07, KKY22, Loe73, RS08b, ST08].
transformation
[BG82, CS10, CR77, Dia90b, Ell93, GAGM18, Lim76a, LM10, Rob75, WWS19].
Transformations
[Hla17, Loe74, Wes74, Wes95, AW83, Bea78, Ben78, BP12, Bot79, CL83,
CL92, CL21, DK17, FA22, Gau76, Had83, Jam81, JLL88, Kov77, Kun99,
LL90, Lau81, LLWX17, Lim79a, Lim90b, MHH96, Mcf79a, MP73, Min77,
Neu83, PLLL20, Pat77, Pea84, SSZ93, TRM22, Wat85b, Wat82, Wei93].
Transforms [And04, Far20, Lee98]. **transients** [MNS22]. **Transition**
[RW96, Tau74, CPZ17, LN14, Wal11, XXF22]. **transitive**
[CL86b, LZ09, LMR00]. **translation** [Sel81]. **translations** [PY82].
transmission [jAS21]. **transportation** [BS18d, CCLL22, Har91]. **transpose**
[BS17d, Cho18a, Gow80, WCS+21]. **transposed** [CR77, Rob75, YH22].
Transposes [Ric81, Sin93]. **transposition** [AF11a, AF11b, AF12].
transversal [Kas85, Mum86a]. **treatment** [Smi74]. **Tree**
[AT18, LHbL+15, AFJK17, Bap97, BGK99, BGK00, BCDF09, CD21, DIJ23,
GGH22, JD99, JS08, Mer89, NP09, NU94, Pat07, PJ90, WWWT22, Zim98].
tree-patterned [NU94]. **Trees**
[BMP22, MSZ04, Moh16b, AAS14, AD17, AEG19, AKB21, BGK00, BNP06,
BLP08, Bru79b, CJY22, CDK22, CJL22, DWL20, FGHL22, FLZ07, Fie90a,
For79a, GHL10, GH23, GF10, HLW+21, JSW09, JS16, KNS96, KN97, KN00,
LP07, LT12a, LC14, LZ19c, LH13, MN04, Moo95, Mou20, NP13, Obo23,
OST20, PP22, SG06, TJ11, WBZ14, Yin21, ZL22, ZB13]. **tri** [MC19].
tri-covectors [MC19]. **Triangle** [AAP82, DZ22, Tho89, TW19, YW10].
Triangle-free [DZ22, TW19]. **Triangles** [FS18a]. **Triangular**
[BKL02, Che03a, Gal03, Iov15, MP19, Wri22b, BHC16, BT90, Ben05, Ben07,
Ben16, Ben22, BGV11, BH15a, BDvW16, Bou13a, BSZW13, CdM15, CW16,
CQ22, Cho10, CKT20, CL01, CC18, CIP18, DTS14, Dol07, DC20, DC23,
DW12b, DHH22, DH22, EGT16, Ere15, FZ17, Fošo5a, GG22a, Gha13, Ghi22,
HC14, HH85, HLZ18, Hou21, Hua10, JLZ12, JSE90, JTU00, Kob06, KPPR21,
LŠS01, LB11, Li11, LG23, LT22b, MJ07, MŠ98, Ner22, Neu83, PS20, QH11,
Ric78, Sil99, Slo13a, Slo13b, Slo14a, Slo14b, Slo15b, Slo15a, Slo16a, Slo17,
Sło18a, TZ17, UG21, VM07, Vla22, Vla23, WOY06, WZC11, WZL13,
Wan16a, Wan16b, Wan16d, Wan18, Wan19b, WLB19, Wan19c, Wan20,
Wri22a, XW12, XWF15, Xio23, XSH18, YZ13, ZZZ16, ZWW10, dFSY22].
triangularizability [DK14, YT15]. **triangularizable** [Rus16].
triangularization [Laf78]. **triangularizatlon** [Wri93]. **Triangularizing**
[Bot97]. **triangulated** [Muk20]. **triangulation** [Che18]. **triconnected**
[Vo83b]. **tricyclic** [GL11, HHW15, KS23]. **Tricylic** [RY93]. **Tridiagonal**

[SJ02, AC13, Aln15, BG82, DOP22, Deu80, Doo16, IOMA21, IOMAN21, MR13, MNN+98, SR17, YHCW14]. **trigonometry** [Gus94]. **Trilinear** [MN13]. **tripartite** [HJ77, TLC22]. **Triple** [LCL13, AN19, AWM22, Ben15, BM15c, BE23, BM16, BMGMC15, CM19, CX12, DD14, EKO14, Elg22, JLZ12, KO10, LW11a, LF13, LWXF15, MC17, Mol15, PS20, SN22a, TS21, WY11, Wan16d, XWF15, YZ20]. **Triples** [Tam02, CGH15, Dom00, GPM98, HZG14, KHG15, yT00, WHG17]. **tripotent** [BSÜÖ13, LWB11b, Tia11a]. **trivectors** [Đok83, Wes80, Wes81a]. **trivial** [AVVÁ18, BCS14, Gha12, dSP11]. **triviality** [Cha78]. **Tropical** [XW22b, MNS22, Shi16, TS19]. **Trotter** [AH16b]. **true** [BR22]. **Trumping** [KPP13]. **Truncated** [FM22c, CB22, Har91, KL15]. **Tsallis** [Fur11, MF20b]. **tubal** [EJS22]. **tubal-Krylov** [EJS22]. **tuple** [MS21a]. **tuples** [GJR22, Shk12]. **Turán** [TLC22]. **Twisted** [Ito16, CHS22]. **Two** [AY74, AYC93, BTV07, CC14, Egg95, EÖ15, Guz88, Hon91, Hsi78, KM85, MWLW22, PH03, Pat03a, Peñ02, Ric81, SLUG04, Shi15b, Tia11c, Wat89, Zha19, AAS14, Adh13, AS11b, APEPPS23, Ash16, BB06, BLP12, BC83, BH90, Bed10, Bén10, BLZ10, BR10, BCI13, dAB17, CW90, CGY13, Cha90b, CL17c, Che22a, CLN13, Con77, CAP22, Das04, DP17, DWCD19, DR18, Dra17a, DS18, DS19b, FD12, FJ15, FNW18, Ful76, GR14, Gro99, GC22, HS83c, HP90a, Hil18, Hon93, IOMAN21, Joh22, JN22, JLS09, Kir04, Kyr21, LS10, LT14, LWY11, LWB11b, LZ14b, Lon80, Lon81, Lop18, MM09, McF79b, MHM22, Mia93a, Mir18, MRS10, Nof15, Orz84, dSP16a, PUÖ15, PGLM00, Pok87, QK92, Ram22, SGS05, SG09b, SS96, Sin90, SST22, TT12, Tan10, TLL11, Tia00, Tia11a, TJ16, Tia18]. **two** [Tia21, Tur16, UPÖ16, Wad85, Wad90, WZ13, WM21, Wan22b, WL22, XW22a, Xio23, Xu15, XHL23, YD14, ZBW16, ZV19, ZCW21, dLMO17, dTS20, tHK17]. **two-by-two** [Xio23]. **two-colored** [SGS05, SG09b]. **two-dimensional** [dTS20]. **Two-local** [MWLW22]. **two-parameter** [Adh13]. **Two-sided** [EÖ15, Kyr21, Tur16]. **two-step** [ZV19]. **two-sweep** [WL22]. **type** [ABGP21, AdFK15, AO97, Anj17, BM19a, BS22a, BO22a, BZ22a, CC19, CW10, CH12, CY22a, CFGM06, DM17, DH17, Das21, DM22b, DKM10, Dra10, Dra16, Dra17a, Dra18a, Dru14, FW73, FJK98, Gar73, Gut01, Hai92b, He21, HJ19a, HJ19b, HJ20b, Hia94, HSW19, HOT15, HZG14, HWZ18b, Hua22a, Hua23, HZ21, Hwa85, JS19, KHG15, KKL20, Kim91, KK18, LLMT05, LXQ21, LLL15, LZL16, LP22a, LHZ22, LZ17b, LFY16, LPW17, MW15, MM22a, MHA17, Mer78a, MP13b, ND05, NY23, Oku91, Rei77, Sab19, Sch22, SGM22, Shi18, SAK22, Spi76, SYZ22, Sun21, SY23, Tho78, Tom22, Wal75b, WT16, WHG17, WWW20, Whi80, XLL15, XQ15, XXZ11, YGÇ19, YD14, YLC19a, YWO07, ZZZ12, dFK21]. **Types** [Mir81, AAdFS19, CL17a, Fen10, Li84, Ma15a, MTR19]. **Typical** [MSS18, SMS15, SMS21, CO12].

Ulam [CAP20, JVMCPR19]. **'Ultra** [lWY19]. **umbral** [Jon78, Par78]. **unbiased** [LHS+21]. **unbounded** [BHC16]. **uncontrollable** [CFP21].

underlying [CHL18, Dua22, LZX19, LY22b, Wan19a, WL20b, ZH22]. **unextendible** [WCS+21]. **Unicyclic** [FKP03, FHT14, Fan05, GZ22a, HM23, KS22a, KS22b, KS23, LZ11b, LT11, NS09, SS07, ZZZ12, ZZ15, ZZ21]. **Unified** [ISCS11, Mar89, TX13]. **Uniform** [BX07, KC16, KKP13, BG23a, LCC17, LZL18, LGZ20, LWL21, LW22a, LL22b, SR17, SSfW15, SKLS20, SKLS21, Wan22b, XW19, ZL19]. **uniformly** [LCL22, WC16]. **unilateral** [FMSS19]. **Unimodular** [Ger04, HW08, LPWX10, Wat90]. **union** [AS11b, Das17, WSH+11]. **uniparametric** [CF15]. **unipotent** [GT79, Shc21]. **unique** [BGZW16, CNW21, DPR22, FS19, KS22a, SS07]. **Uniqueness** [BY76, BB17a, Bal18, CPZ17, HHSY22, HS85, Lim76b]. **unit** [BL21, CGH15, Dat80, DO19, FZ11, HHY22, LY22c, LY22b, LB19, MKS22, RAN22, Sch92b, WZC11, Wan16a, WL23, ZH22]. **unit-circle** [BL21, LB19]. **unital** [Ben15, BG16, CAP22, EKO14, NY21]. **unitaries** [CAP22]. **Unitarily** [JN92, MKS84b, Pok87, AE10, CLNT17, HJ87, HMN91, JL88, LT87, LT90b, LLW07, SAV01, Wan17b]. **Unitary** [ACI15, AKR23, AP23, BL83, dAB21, BD84, Bot79, CL22a, Drn13, Ell93, Far90, GR91, Grü76, GWZ14, GWZ16, GC22, GL97, HINS10, HH85, HH89, HS09, HX21, Ikr15b, KC16, Kim91, LT89a, LT89b, LT90c, Li91, LT92c, LM93, LPS08, NC22, RS07, Rai87, Sed11, SC22, Tho74, TM19, Xia20, YLW22, Zha22, dB10, ZT12]. **unitriangular** [HS17, Slo13a]. **Units** [New93, CG19, Put82b]. **unity** [AAT16, Wan20]. **Universal** [CR18, KT19, PZGL22, DFPS23, Hua22a, Tia11c]. **unknowns** [EÖ15]. **unoriented** [FTZ08]. **unranking** [VDW85]. **unresolved** [Min74d]. **unsolvability** [CS19]. **update** [WW20a, WW12]. **updates** [SKP18]. **updating** [LLLY23, XY22]. **uplets** [BB96]. **upon** [Deu80]. **Upper** [CR77, GM21, Lás91, Mel13b, ST94, Sha91, TD14, Tia17, TW19, ADJAH22, BHC16, Bal14, Bou13a, CW16, CJL22, CC18, CIP18, Dol07, DC20, DC23, DHH22, DH22, Fošo5a, GG22a, Ghi22, HC14, HLZ18, JKB17, JTU00, Kob06, KPPR21, LGA+13, MŠ98, dSP16a, Raj09, Rho94, SSG12, Sil99, ST96, Sol00, zSqSZ16, Sou03, TD16, TD19, UG21, Vla22, WOY06, WZC11, WZL13, Wan16a, Wan19b, WLB19, Wan19c, Xio23, Xu22, YSY17, ZZZ16, ZWW10, Zho16]. **use** [LT10]. **user** [Koh11]. **Using** [CG17, AFTG19, jAS21, Bap88, DTSI15, DLQ18, EB17, GPM14, KW92, KW93, KMP+19, LLW07, MS16b, Ogu20, SPM14, Vo83a]. **Uzawa** [CL22b].

V [Ano16c]. **valid** [Sin81b]. **valuation** [AW13, Piz87]. **valuations** [GM90]. **value** [ANK22, jAS15, jAS21, CQW16, CS19, CH87, GA18b, GHT11, Gut22, JW22, JN90b, Lék19, MS81, Sad23, SRT22, SA10, Ter22a, YZ16, ZZL23, ZL18, Zha19, Zou20]. **valued** [AW13, BB22, BG16, Bri89, DD10, DS23c, EDKA07, FD14, GR23, Gil93, HSM17, HF18, JS20, MS81, MWLW22, Oi20, Sil84, TN22, Tho89, Tia17, Tur02]. **Values** [Mir81, AG22, AHJ87, AD17, Bap87, BI95, CJK+13, DS23a, GAMA23, GRSW92, Hil17, Hua22b, JRMFMASS16, Joh75b, Kap77, Kar83, KNS96, sL19b, Li84, LT90a, LT92b, LT93, LCL14, MS85b, Mat92, Nie10, Odo83,

RW21, ST00, Tag12, TH18, Tho75a, Tho75b, Uhl14, Uhl20, Zha00].
Vandermonde
[Bra86, GKLR82, MZ22, Ric87b, SSZ22, WLX16, Wör20, XW22b].
Vanishing [BS18b, CD22, GQ06, MF77, Mer77, Pok87]. **Variable**
[CSCH01, Hua22c, KY17]. **Variable-parameter** [Hua22c]. **variables**
[DS18, DS19b, Est80, GHL20b, dHS23, Paz84]. **Variants** [KMS21, Pop22].
Variation [Fri82b, FJ09, Ben90, BD84, BE90, BKL97, Deu80, Fri90b, FJ01,
Hos22, JP07, Kir04, Xu22]. **Variations** [Yiz02, Yiz03, BM15b, MW80].
Varieties [IM18, BB13, Bal22b, EGMS22, Hul81, Pat86, dSPdS22]. **variety**
[BB19a, Bal22b, BCS14, GP15, Lim92b]. **Various** [CID16, KD23]. **vec**
[HS81]. **vec-permutation** [HS81]. **Vector**
[Adh13, BH90, SL15, BB22, Cla92, Con77, Das17, Das18, DPP17, DM87, DH20,
Đok83, EDKA07, Guo20, HNB22, HS85, HF18, How80, HCS19, JS20, KL95,
KMEO12, MW18, Maj22, MWLW22, MN13, Pan15, dSP22, RŠ09, WWS19].
vector-valued [BB22, EDKA07, HF18, JS20, MWLW22]. **Vectors**
[GMD85, BdPNdP17, CJ97, CJK$^+$13, DMdO92, JP07, Kir91, LK16, Nom73,
RS17, Roh06]. **Vein** [Fie84]. **verbally** [Cen11, Per15]. **Vergne** [Ous15a].
Verified [Miy22]. **Veronese** [BB19a, Bal22b]. **version**
[BHY22, BGK00, BS17d, DKK$^+$20, HL84, Hua23, IT16, KS14b, LMMR15,
MMR07, Mer89, MP94, MP95, Nag17, PSA14, Pas15, Tho89]. **versions**
[AEV12, EL09, Orz84]. **versus** [Mel22, Vel21]. **Vertex**
[AAdFS19, KP02, MS87, SS22, LY22a, LPH17, WLW23]. **vertex-addition**
[SS22]. **Vertex-removal** [SS22]. **vertical** [MN96]. **vertices** [AEdF13a,
AEdF13b, ACMR17, BBG22b, DdF15, HZ03, JST18, KNS96, LT12a, LZZ17,
LDL17, SS22, WH11, WWZ20, WWWT22, Wan22b, WDJ10, ZL19, Zhu15].
via [BM17a, BS22c, BB19c, CMM22, DMV18, FDLB20, FS18b, GMV23,
Gau76, HJ20a, HRT15, HM22, Ikr15b, JW22, JMP17, Joh11, KNS96, Kul22,
LV18, Lék19, MFS22, MZ22, NS18, PSMA16, PM22, RW84, SAK22, Sta15a,
SZWB16, SZBW16, Tau81, Uhl13, XQ16a, YGZC22]. **Viennot** [Foa79].
viewpoint [Dic84]. **views** [JNS23]. **Virasoro**
[CY22a, CHS22, DH18, LS22a, LGG19]. **Visualization** [AP23]. **Volterra**
[ALP22, QM21]. **volume** [CC23a]. **vs** [ABC18, ME18a].

w.r.t [Cha96]. **Waerden** [Fri78, Fri82a, Lon80, Min82b, Sin81b, Sin84b].
Walk [Rod03, ZZ21]. **Walk-regular** [Rod03]. **walks**
[CMR21, CLX22, Che18, FS14, GLLM21, HL18, WS23]. **Wang**
[Cha89, Hu87, Hu89]. **Watkins** [Pat93]. **wave** [Far17]. **wave-packet** [Far17].
Wavelet [Mej19, Far20]. **Wavelet-multipliers** [Mej19]. **ways** [How83].
Weak [EPR16a, EPR16b, Lin21, MW19, Neu79, YF18, ZC22, ZCZT22,
CFGM06, EBB18, FSWX22, GJ22, IS15, JGS90, LD22, LRD21, MNS22,
MM22b, ND13, SGM22, TJG22, Wer86]. **Weak-** [YF18]. **Weak-local**
[EPR16a, EPR16b]. **weak-majorization** [GJ22]. **Weakening**
[Hua16, You15]. **Weakly** [Fra17, IS16, Lud21b, FJK22, KSMB16, KY17,
LMLL17, SC21, SZWB16, WWW20]. **Wedderburn** [LMMR15].

Weierstrass [Atk91]. **weighing** [KMS07, LN10]. **Weighings** [NW02]. **weight** [GG22b, KN04, LT11, LT12a, TJ11]. **Weighted** [AG96, BG23b, MS10c, Mos19, MM22b, SKM17, ZW20, AHJ20, ASR22, BR19, BPR20, BSG+12, CW10, CL17a, Che16, CNUV16, DM22b, DTS14, DLQ18, Dra18a, EJD88, Fer10a, FOT23, GMV23, GCP20, GH23, GHL20b, KS16, KY17, KNS96, KN97, KF98, KMP+19, KKS22, LT11, LT12a, LLC21, LZ23, LPX23, Mos20, Pep19b, PSB23, RBG23, RF19a, SLW21, SMM14, SMM22, Szw18, TD14, TD16, TD19, TJ11, TGW14, WfMR16, Wim85, YLS10, ZY17, vBW95]. **weighting** [DMV18]. **weights** [AAB20, AKB21, Bén10, Lee94]. **Welch** [CDK20, Dat16]. **Wenzl** [Byt20]. **Westwick** [Atk84, Poo80a]. **Weyl** [BHC16, BZ22a, CC18, DC20, GCSC20, ML12, TOM88, ZZ16]. **WG** [FOT23]. **wheel** [BBG22b]. **wheels** [BS95]. **Where** [Bal80, BLR12, CD01]. **which** [Ano16c, BB75, Ben78, Bre15, BF96, FTA20, FH73, HS83a, JL90, JLS09, Kap77, KMT96, KE82, Loe93a, Loe93b, MZ91, MN04, Ous15b, PP16, Ric81, Sin76b, Sin81b, Zho22]. **Whittaker** [aCC17]. **whose** [AS95, ACO21, Ano16b, APEPPS23, AOTR11, BT22a, BP90, BPS16, BPW16, BGZW16, CCGO11, CFSRL22, DFK19, DH86, DM87, DIJ23, FdF09, HNS99, HL20, JD99, JS08, KLO14, LR13, LHH18, MSZ04, Nab98, Sim95, Sin73, Sin76a, Sta10, Stu89]. **WHS** [EOvdD09a, EOvdD09b]. **WHS-matrix** [EOvdD09a, EOvdD09b]. **width** [CLN21, HM76, HM78, Tsi83]. **Wielandt** [Alo23, CNP06, DW23, FS18b, Gum15, LL14b, ZMCN19, Zha01b]. **Wiener** [Adu15, MZ04, Mer89, Obo23]. **Wigner** [DMS23]. **Williamson** [Wal75b]. **wise** [Gue17]. **without** [ALPM20, CNW21, Cao19, FM21, GL85, HLW+21, MS10a, New79, Pok87, Tam91, Wan20]. **witnesses** [LF15]. **Witt** [AKY21, COK19, CCC21, CZZ22, GPW22, Hai97, Haw05, Hua09, Lew90, LGB17, Yao22, Zha97]. **Witt-like** [Zha97]. **Woodbury** [SC20]. **Words** [WZ95]. **work** [New97]. **worm** [JL22].

x [Bea86].

Yamaguti [BBM15, Bre14, ZL15]. **Yamazaki** [Vei83a]. **Yanase** [DMS23]. **Yang** [DBG18]. **Yound** [Rem82]. **Young** [AdFK15, BO22a, CdS03, JKL22, KM11, Man17, Nas75, SYK15, Sha20]. **Young-type** [AdFK15, BO22a].

Z [BSS12, CdM15, HMO11]. **Z-matrix** [BSS12]. **Zagreb** [AEG19, ZQC18]. **Zero** [BCR91, BSL01, BS16, GGH22, Gha13, Gra10, Gra11, Soa08, WWZ20, Ach77, AGM13, AGS20, AKS18, Bre12b, BH15b, Bur95, BSO13, CD22, CLX03, CW16, CG19, CM07, DGL22, Das17, DZ22, DJS21, EAM19, FGMSS19, FLR85, FKKS11, Gam18, HS93a, Hil18, HLH18, JL93, KMOV07, KS82, Kol23, LB19, Lim10, LM89, MDW11, MOvdD90, McD92b, MY12, Min84, OWTZ21, Pal79, Pat90, dSP17, PRAC22, RM22, Rob77a, Slo16b, Sło18b, SC22, SH92, Wan17a, WS23, ZWW10, ZWZ10, ZWM17b]. **zero-divisor** [DJS21, OWTZ21, ZWM17b].

zero-divisors [CG19]. **Zero-nonzero** [GGH22, CM07, KMOV07, MY12]. **zero-patterns** [JL93]. **zero-set** [FGMSS19]. **Zero-sets** [Soa08]. **zero-star** [BS16]. **Zero-term** [BSL01, BS16]. **zeroes** [LR96]. **Zeros** [AGZ00, LT07, AS12, Dat80, FMSS19, KS07, KK90, Mel13a]. **Zeta** [CP10, KKS22, MMS21, Sat11, SMM14, SMM16]. **Zhan** [Zou20]. **Zhang** [Uhl20]. **Zierler** [GTLN18]. **Zinbiel** [Ano22b, CKKK22a, KPPV18]. **Zusmanovich** [LHZ22]. **Zwahlen** [TT74].

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