Title word cross-reference

(0, 1) [FV97, Kim97, Zel85, BF15, KS83, LN10, Min74d, Zho16], (0, 1, −1) [GZ99]. (1, −1) [KS84]. (1, 0) [MP13b]. (1, 1) [Che03b]. (2) [Che95a]. (2, 2, 2) [SF17]. (2, p) [YD14]. (α, β) [YZ13]. (α, β, γ) [KO10]. (AXB, CXD) = (E, F) [YLW15]. (b, c) [Dra18b, KCICV18]. (e(x,y)) [Pre85]. (k) [Cha77, Cha79a]. (k + 1) [BT06]. (k,l) [Rem90]. (k = 2, 3, 4) [Sta15b]. (max, +) [HKT15]. (n + 1) [Sch78, Sch75]. (n, k) = (4, 2) [JLL88]. (p, h) [DV18]. (p, q) [KL95]. (p, σ) [ADRP14]. (qr) [Raw81]. (R, S) [fLLyP15, Pen15]. (s, p) − w [Ras17]. (√5 − 1)/2 [Sim95]. (T) [Che95b]. (v, k, λ) [Der83]. (Z_m)* [How86]. −2 [ANO16b, BPS16]. 0 [HNS99, HLZ05, JS96, Wu09]. 0, 1 [MS79, BX07]. 0 ∉ F(Am) [JL90]. 1 [CM15, Fra17, HNS99, HLZ05, JS96, KP14a, Min77, Sta10, Wu09]. 1, 2, 1 [KHG13]. {1, 2, 3} [ZaX10]. {1, 2, 4} [ZaX10]. 10 [LN10]. 12 [EM95]. 2 [BL10, BL01, BdPN14, BDvW16, BM89, But10a, DP09, DD10, DIn15b, DlL92, Dok93, Ere15, Far94, Fur08, GS06, Hai88a, KY17, LGA+13, Liu16a, Mah82,
MP18, SG09a, SF17, WYM11]. \{2, 3\} [SKP18]. \{2, 4\} [SKP18]. 2n − 2r (≥ n) [LM95]. 2 × 2 [AY74, BB96, CM92, CTW15, Coh88, GR93c, HW06, JR93a, JR93b, Kan87, NP91, Tau81, We98]. 2 × 2 × [Bre12a, Mar11, Sta14].

2 × 2 × 2 [BS13, KJ13]. 2 × 2 × 2 × 2 [BS13, KJ13, Sta14]. 2 × 2 × 2 × 2 × 2 [SLR16, SLH18]. 3 [BWLL12, BW15, BPW16, CCGO11, DJ89b, KP12, LK16, LZ12, MSS18, QH17, SF17, V083c, Zha15c]. 3k < n ≤ 4k [ChaN9a].

3 ≤ m ≤ n [SNS15]. 3 × 3 [BLSV12, Cai93, CCL10, CNP06, Dom95, Dom00, For79d, SvW14, Tia02]. 3 × 3 \times [LPZ13]. 4 [CM07, LHbL+15, MH16, MS16a, TWZ16]. 7 [Rom89]. 8 [MN13]. \{−1, 1\} [dLMO17]. \{A, [A, A, X] = 0 \} [Gra80]. \{A, [A, X] = 0 \} [Gra80].

\% FS [Lei18]. 2 \[JN14a\]. \{C, M, SA14\}. \{p \} [Boz99].

A [Fan92, JT03, Sta15a, WM84]. A + BX [JL91]. A + BX −1 [DOMD77].


AB = BX [LR89]. aba = a [BLR12]. AH + HA* [AL78]. \alpha [GX17a, Heo16]. * [BD12, Cir15, HXZL15, Krc16, MRD15, TRD16, WJ16]. A → A+ [Gol83].

Au = b [McD92b]. AX + BX* = 0 [De 13]. Ax − B = b [Roh04]. AX = B [FLL+17]. AXA* = B [Bak84, Zha04c]. axa* = c [CIDK07].

AXB + CYD = E [LQ95]. AXB = C [Tia03]. B [ZZ16, Liu17, ME18], B(H) [BZJ13, Dool04, ZX16]. b, 2 [ZZ00]. Bran [JM13]. Braw [JM13]. bab = b [BLR12]. \beta [LFS18]. C [Aus96, BD88, BPD88, CT96, DHKSH08, Li87a, LT89b, Li94, LR04, Man91, Man92, NNT95, ShDHG08, BD94, BD96, Jon92, JR93c, Lei91, Lei92, Li86, LT88a, LT88c, LST89, LMR94a, LD17]. C(X) [BG16].

C* [TH18]. C* [AR15, BBBS09, BR10, BM17b, CIDK07, DM17, DKS09, DM10, EM15, EPR16a, EPR16b, MR10, Son14, Tag12]. c* [Go90].

C* [BB17b]. c0 [Ber02], c1 [YWO07], B, (H) [AKS18]. G [M79]. L(ln, n) [GrZ89]. char\F ≠ 2 [Uh97]. cp [BX07]. CXC* = D [Zha04c]. D [JvdD88, LN10, NW02, Cai93]. \delta [MC17], det X' = X [Sh94]. E [Arm17, HQ14]. EP [Mee80]. \eta [HW14, YLW15]. F [Bea86, Uhl79, KD16].

f → f+ [Go90]. G [Hof75, MS82a, Nee07, LLL09, LW08, LDL17, XQZ13, XQ16b]. \{g, h\} [Bre16].

\gamma [JKD16]. \Gamma(n) [Cha96]. GC2 [ZYO8]. GF(2) [Bot97, Cla92, Tra89, Tra90].

GF(3) [Ell95]. GF(q) [Ger86]. GL(n) [KW93]. GL(n, F) [Sch78, Sch75].

GL(n, R) [Mer82]. GQ(2, 4) [BLSV12]. GSp(V) [Vin04]. H [AM13, FH89, Jin17, JKB17, LZ16, Nen84, GR91, GR93b], H > 0 [AL78].

i(XAX+1) = B [Mac95]. \infty [MW15, WT16]. J [Heo16]. K [Poo80b, Slo13c, AAK16, Atk84, BLZ10, Bom02, Che14b, FNBR96, Gro17, HQ18], HLL11, JLL88, JR94, KKP13, KLPK17, LT91, Li92, LS10, LF15, LCC17, LDL17, Loe93a, Loe93b, MW15, Mes90, Smb97, SSG12, SH17, Sta15b, TB10, WT16, WJD10].

K × [FK91]. L [CLX03, Geh15, Tau74].

L(P, l) + [Gz91]. L2 [Lla96]. L P [Rho94]. l1 [AG96]. L2(0, ∞) [FD14]. Lp

[BPR12, MM09, Boz98a, Gol87]. \lp(w, F) [DTS14]. λ − τ [M15a].

\lambda 2(G) = d2(G) [PH03]. \lambda − N [Che94]. LDL* [Sta15a].
\lim_{\lambda \to 0} X(\lambda I_p + YAX)^{-1}Y [YZ16]. LR [Mar78]. M

[And80b, BCN05, BCLM12, BC94, CKN95, DJL94, Fan92, FS83, GN02, 
Ha88, HS89, HS91, HXL16, Ibr00, Joh77b, JOvdD84, Lee91, Li95, LLZ13, 
MSZ04, Mia93a, Nab98, NP80, NS92, vD96. Ber12, Den14, JOvdD85, MRT16, 
NS93, vT86, WD17]. M_\mu() [Fos05b], M_X [CIP17], Mat_\mu(K) [dB16]. F_2
[BS13, SLH16, SLH18]. F_3 [BS13]. Z [Ger04]. L [Tur18]. Q [Tur18]. f^T(C)
[MS08]. m \times n \times (m - 1)n [SMS15]. \mu [Dia90a, dF05]. N
[Shr90, An18, BL10, BGLZ18, Bed11, Cha79a, Chi78, EÖ15, GLOT13, GR10, 
HW75, KP16, LZ13, LLD17, Pop17, Qi15, SV14, Uhl14, Wer87, YLL10, dB16].
n - 1 [Esc93]. n - 2 [HW75]. n/2 [KMS02]. No [Sin90, Lee91]. n \leq 3k
[Cha77]. n \times n [CZY12, Gai77, SwW14]. O [Lop11a]. O(4) [Lop18]. O(N)
[Uhl99]. O(N^2) [Uhl99]. O(p, q) [Les93]. \omega [EV77]. \Omega(r, s) [Har87]. \Omega_n
[DH91]. P [AEdF13a, AEdF13b, DdF15, ES98a, EMS02, KS14a, Tau74, 
BB96, Han17, HS93b, Kra66, Roh91b, Sin77, So90]. P_\pm [KS14a]. P_\pm [RP90].
\partial W_\pm(A) [Beb86]. \phi(I - A) [Mal86]. \Phi [HSM17]. I [LL13]. PSL_n(F)
[Gur97]. Q [ND05, YGW15, CNP05, CN05, CNP06, CN07, Gar79, KHG13, 
Li98, LN98, PV00, Sal12, Sal14, WHG17, Zha97]. QR [LL17]. R
[AW13, L235a, BL93a, BT15, HH14, MC85]. S [GMZ11, XL17]. S(1*, b)[P_k]
[Cry95]. S(n, p, 2, 2) [Hai92a, H92b]. s(\phi) [GW89a, GW98b]. S_m [SS98]. S_n
[Di 88, Reg87a]. S [BCKP10, Ben16, Lee16, Wan18]. SL(2, R) [Sch79]. SL(3)
[Ra09]. SL(n, F) [New82b]. SL(n, K) [Wat84b]. s_2 [AC13, Ahn15, Gau76].
Sp(2n, Z) [New85b]. S [RD12]. T [WBZ14, BT08b, GL16, LM93, vBW95]. T_a
[LZ12, LZ13]. \tau [Han17, Meh84]. \theta [ZT12]. U(n) [DM79]. U_q(sl_2) [Ahn11].
W [Arm17, SKM17, WM16, ZT12]. W(12, 11) [KMS07]. W(2, 2) [ZT12]. X
[Tia17]. X + M^*X^{-1}M - N^*X^{-1}N = 1 [Zha16b]. X = (x_{ij})_{n \times n}
[WM84]. X^*Y + Y^*X^* [LJ11]. x_{ij} = -1, 0, 1 [WM84]. X^A Y = A [Wal75a].
X^A Y = A^T [Wal75a]. XC = D [LLL+17]. \xi [LLF14, YZ13]. Xm + A - X - uA = I
[DH03]. X \to AX + XA [Bou14a, Bou14b]. Z [MNN+98, Smi94, SH98, Stn89].
Z_1 [CPZ17]. Z_2 [DB14b]. Z_{p, p} [AS15]. ||A||_2 [Mer81]. ||A||_{\infty, 1} [Roh00].

* [FdSV16, GV95, GdSV16, IT16, LWZ15, Ng14, QZ16]. *-algebras [Ng14].
*derivations [LWZ15, QZ16]. *-identities [GV95]. *-isomorphisms
[IT16]. *-superalgebras [FdSV16, GdSV16]. *-congruence [HS09].

-additive [AS15]. -algebra [ZT12]. -algebras
[GLT13, BBBS09, BR10, BB17b, BG16, BM17b, CIDK07, DM17, DKS09, 
EM15, EPR16a, EPR16b, Tag12, TH18]. -analogues [Gar79, Zha97]. -ary
-bi-Hermitian [YLW15]. -bihermitian [HW14]. -bilinear [MS82a].
-bistochastic [ME18]. -by- [DD10, DJ89b]. -circulant [Bon02, BT15].
-cocharacters [Di 88]. -colorings [Dia90a, SG09a]. -coloured [KP12].
-commutativity [HQ18, QH17]. -congruence [Le91, LM93]. -connected
[SHS17]. -connectivity [Vo83c]. -continuous [ADRP14]. -contractions
convertible [Ber12]. -convex [DV18, Li86, LST89, Li87a].
-cospectrality [Tur18]. -CP [Heo16]. -cyclic
[BL93a, LDL17, MW15, WT16]. -deficient [LLF18]. -derivations
difference [Sal14]. -dimensional [Far94, YLL90]. -Divergence [KD16].
-edge-coverings [But10a]. -eigenvalues [Jin17, JKB17]. -eigenvector
[CPZ17]. -eigenvectors [HQ14]. -eliminated [TB01]. -energy [Tur18].
-Entry [Che03b]. -EP [WD17]. -even [AM13]. -extension [LZ12, LZ13].
-Filiform [CCGO11]. -function [HSM17]. -functions [Ho75]. -gamma
[Sal12]. -generalized [Che95a, GS06, Liu17]. -generator [Meh84]. -Graded
[BL10, BWLL12, BD12, BW15, BD12, BL93a, LDL17, MW15, WT16]. -type
[LL94, FS97, Ha88, Ibr00, Joh77b, KS14a, Lee91, Li95, LLZ13, LZ16, MSZ04,
Mia93a, Nab98, NP80, Neu84, NS93, Rohl91b, Zho16, EM90, And80b, BCN94,
CDM15, graph [LZ15a]. -groups [Cha77, Cha79a, Kra06]. -hook
[Rem89]. -hypertournaments [KKP13]. -hyponormal [Ras17]. -ic [Chi78].
inclusion [Lei18]. -index [YGW15]. -invariants [Lop11a, Lop18]. -inverse
[XQ16b]. -inverses [Dra18b, KCICV18, LW08, SKP18, XQZ13, ZX10].
-Inverting [KHG13]. -isometric [MP18]. -Jordan [MC17, An18, TRD16].
-Jordan*-derivations [LLF14]. -lattices [Ger04]. -Lie [BL10, BWLL12,
BD12, BW15, BGLZ18, LZ12, LZ13, SV14, WJ16, YZ13, Zha15c]. -linear
-Matrices [JT95, Min74d, EV77, GZ99, HS93b, KS83, KS84, MS79, MS93,
NS93, Rohl91b, Zho16, EMS02, CN94, CKN95, DJL94, ES98, FS93, HA88, Ib290,
Joh77b, KS14a, Lee91, Li95, LLZ13, LZ16, MSZ04, Mia93a, Nab98, NP80, Neu84,
NS92, Sin90, SM94, HS98, Sh98, SU98]. -matrix [BF15, JOvdD85, BC94,
Fan92, HS89, HS91, HXL16, JOvdD84, NP80].
-measurable [Han17]. -minors [Sin77]. -modules
[AR15, DWM10, MS08, MR10, RA09, Son14]. -multigraphs [BM89].
-nilpotent [Fur08]. -norm [Liu17, JL15]. -normal
[GR91, GR93b, MRT16]. -Norms [So90, Gro17]. -Numerical
[BD94, LN98, AAK16, BD96, CNP05, CN05, CNP06, FBN96, JOvdD84, RA09,
 JR93c, JR94, Le92, LT89a, LT89c, Li98, PV00, LR04, BD88, CT96, CN07,
DHKK90, LT89b, Li94, Man91, Man92, NNT95, ShDHG08, V96]. -odd
[AM13]. -optimal [LN10, NW02, WM84]. -orbihedra [ZZ00]. -partite
[Sh90]. -pendant [WDJ10]. -permanent [DF05]. -point [Sch75, Sch78].
-potent [BO10, BLZ10, Pen14, HLZ11, MC85, BT08b]. -product
[HZXL15]. -property [BCEM12, ND05, Tan74]. -Racah [WHG17]. -radial
[Li86]. -relatively [JKD16]. -representations [Heo16]. -representing
-solvable [BL10]. -spaces [Atk84, MS90, BPR12]. -spectral
[Li86, LMR94b]. -splittings [JM13]. -stability [Cai93, GX17a, JvdD88].
[LLS10, VB95]. -Toeplitz [BDPN14]. -torsionfree [BDW16]. -type
[MQ15, WT16]. -uniform [LCC17]. -unitary [GR91, ZT12]. -uplets
-vertices [AEdF13a, AEdF13b, DdF15]. -weighing [LN10]. -Weighted
03081087.2015.1020746 [Ano16c]. 03081087.2015.1107020 [Ano16b].

1 [LPH17]. 1-inverse [LPH17]. 10.1080 [Ano16b, Ano16c].
10.1080/03081087.2015.1020746 [Ano16c].

3-tensors [LPZ13].

6 [TT78]. 63 [Ano16c]. 64 [Ano16b].

7 [Ano79b].

A. [Mar76]. abelian [CCS98, ES76b, MN80, MP13b, Nir11, Odo83, STME10, WL16a, WL16b, BF96]. Absolute [Fie90a, KP02, DH17, Jam95, ST73, SA10, Tag12, TH18]. absolutely [MSS18, PSS15]. absorption [BS18a]. Abstract [Sin83, Sal79]. Accelerated [BLX18]. Accretive [BJ75, LS17]. accurate [Uhl14]. acting [Fri97, KMEO12]. action [Liu16b, Mer78b]. actions [RP04]. acyclic [AEdF13a, AEdF13b, DdF15, KS09, Moh16b, dF13]. Addendum [JR93a, Ric87a, Bal76]. addition [EL09, LŠ96a, LŠ96b]. additions [LLS16, NS93]. Additive [BDH10, BLZ11, Che14a, DHB07, FLS88, Gha12, JQ15, Kuz05, LP02, OK07, Pet97, Tag12, TZ06, XCC99, XPY16, XL17, Zha04b, ZS05, ZCCIW12, AS15, CdS03, Cho10, Fin92, MO13, Smi83, mWyD11, YZ13]. Additivity [DW12b, QH11, AA12, Gro99, Har81b, Tia05a]. Adjacency [Hua10, Lim10, BR14, But10b, KFR17]. Adjacent [JK08, CW93]. adjoint [CGY13, CKL16, DRW93, FJS14, HH16, Kyr08, LLMTO5, LT13, Moo95, TZ06, Tan13b]. Adjoints [Mar75, Rao18, ER81]. adjugate [Sin82a]. adjusted [MH12]. Adjustment [Har95]. admissibility [BV16b]. admissible [Aze99]. admitting [Gar75b, MID17]. advances [Mer79c]. affects [Har81a]. affine [BBT07, FP17, GX17b, Kes83, dSP16b, Wit11]. afforded [Mer78b]. Aitken [Min74c]. Alexander [Min74c]. Algebra [DS02a, Mac09, SK03, Ahn11, BPS00, Bed11, BLZ11, BV92, Boa13, Bre12b, BS18b, BF96, BSS12, Car88, Car90, Cha90a, CKLP13, CWSZ17, DK11, De 82b, Din15b, FW73, Gai77, Gor83, GR10, PK94, GV87, Guz88, IKR12, Jac79, KS15, LCL13, Lip96, LZ12, LGB17, MS85a, Ma'15b, Mer92, OWX09, Pat86, Pat89, Pow88, Prz92, Wad90, Wal79a, WOY06, lWPW14, YWO07, ZT12, ZWW10, ZW14, dBS00, Ano79b, Ano16b, Ano16c, TT78, MT84]. Algebraic [ASZ02, BJ96, BP98a, FKP03, Gur97, KN97, KP02, LNZ18, Pat86, Tho90, WOW09, Wu05, Zel85, BLP12, Bar07, Bar12, Bén10, CK84, Din00, Epk99a, FN14, Fie90a, GZY18, GL97, Haw05, HSX16, KF98, Kir00,
KMN01, KN04, KN81, LRR87, Lim92b, LGB17, Ma'15b, New85a, PT10, Pie92c, Put82a, Put82b, TJ16, XSL15. Algebraically [Had83]. Algebras [Boz87, Cre03, D84, Fin92, Kay17, Luk74, MS02, ST15, ARH15, AF11a, AF11b, AF12, AM15, AN14, AAP82, Ake83, AAB15, AELPM18, AG15, AH13, AXH15, AG18, BHD10, BL10, BHD11, BWLL12, BD12, BW15, Bed10, SX11, BBB10, BR10, BB1b, BBM15, Ben15, Ben16, BCS14, BCS18, BM14, BB14, BG16, BH13, BH16, BM17b, BTV07, Bre14, Bre16, BH15b, BL11, BFJ12, BFK18, Bun94, Cal13, CR15, aCC17, CGNT15, CCQ011, CGOT13, CV94, CLOK13, Cen11, CW11b, CX12, CW12, Chi78, Cho10, CIDK07, DM17, Di88, DKS09, Dok73, Dre93, DW12b, DW16, Egg95, EM15, EK14, ERP16a, ERP16b, Far93b, FJK14, FZ17, GLOT13, GP14, Gha12, Gha13, GS05, Gol07, GT11, Gra10, Gra11, Gur80, HK16a, Hi76, HFS15]. algèbres [MM92]. algorithm [AAB17, Fog73, GTLN18, Gre99, HKT15, HRT15, fLLyP15, Mum86b, TT15, Uhi13, XJW71, vD96]. algorithms [Blo95, CW90, Che95a, HM18, Mum86c, Stu92]. all-derivable [LPS13, ZXL16]. almost [Fin92, HKS10, WW76, JA94]. almost-commuting [Zel75]. alone [De82b]. among [Tan10, TLL11, TLC16, XL11]. Analog [Mia93a, CH87, Foa79]. analogous [CW91]. Alternating [Kuz05]. Annihilation [Tho90]. announcement [Tho90]. answer [GR14]. Answers [BHM76]. Anti [BFJ12, AF11a, AF11b, AF12, AAB17, BSZW13, HS12, LLO9, LL10a]. Anti-automorphisms [BFJ12]. anti-involution [AF11, AF11b, AF12]. anti-Loewner [HS12]. anti-symmetric [LLL10].

Applications [Fur08, Gor83, Mer92, Whi80, BAN12, BLZ11, Bru79a, CGMR11, CV94, Che92, Cro08, CCLN16, De 82b, DW12a, DHKSH08, Dra17a, FJS14, FLS88, FJK98, GKS01, GHK16, GL16, GLS16, Gur98, HW13, Iov15, KMRS89, KT06, LS16, LL16b, LPH17, Mai11, Mer94, MS12, Mou04, Mou13, SRW07, SQA15, ySpW17, SL95, Son14, Tia01, Tia11a, Tia11b, Tia11c, Uhl79, Wan80, WH12, Wit11, YSY17, YW09, ZZY16, Zha15a, ZPCZ16, vD96]. Approach [ASZ02, ACMR17, Bar07, BS17d, BAN12, Bur11, CKL13, Cla92, DP98, Hau12, HRMP95, MIVPS14, Mou04, SK15b, TX13]. Approximate [LK16, How83, MMM07, Pas15, Sol14]. Approximation [TD16, Che91, CJ12, Hav88, HZ17, KS17b, UZ16]. approximations [DTM15, DH16, Hal86, SF17].


arrays [Bre12a, BS13, GP74, Sim83]. articles [Ano97b]. articulation [BLP12]. artinian [HPV84, HPV88, LQ95]. ary [Bed11, GR10, KP16]. Aspects [Whi74, MM06, WW01]. assignment [BHH86, CFP10, Gib87]. associated [Ahn11, AO97, BCI13, BL93b, BT15, Caf13, Cha92, Cha93a, CKN95, DP00, Dia90b, DJL94, Fa97, Han17, Heo16, HS88, HT92, HK16b, Hon99, HH14, JLDS12, KH05, LTT11, MP73, Moo95, ME18, TLC16]. associative [Bas17, Gol07, Hua96]. Asymptotic [Har78a, Hou09, BSA17, CW17, DHB07, Geh15, Min80a, MFPSS12]. Atkinson [BBBS09]. attached [ACMR17]. Audenaert [AKK17]. Author [Bal76]. Automorphic [Pea84]. Automorphism [MW16, ZWM17a, AF12, TW17]. Automorphisms [BL11, DM13, Fos05a, GWZ16, HLZ02, Leg06, OWW09, Wan16a, YWO07, ZWM17b, AC15, BFJ12, HS17, Ter06, Ter09]. Autonne [HZ12]. autonomous [MR12]. average [DH16]. axis [HHC12, Nas75]. Azumaya [SX12].
block-diagonalization [MS10b]. Block-matrix [Liv94]. block-shift [Tan94]. block-Toeplitz [GR91, GR93b]. block-triangular [CdM15]. blocked [Con90]. Blocks [AY74, CP18, Sjo93, Yua98]. 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, 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, Ano99a, Ano99b, Ano99c, Ano99d, Ano99e, Ano99f, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f]. Bogart [Mer79b]. Bohnenblust [JRMFMASS16, MFPSS12]. Bohr [MR10]. 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, MK+74, Pie92a, PA79, RY73, Sch92a, SB75, Sen81, Sha95, SA77, Sko85, Sta94, TB76, Tho81a, Tho81b, Tho82e, Tho83, Wat84a, WTM78, WN74, Yaq80, ZF78, MT83, Tho82b, Tho82c, Tho82f]. boolean [Bo01, GPK94, HKS94, KP92, Liu92, LB99, KS12, LT14]. Bootstrap [BC06]. bordered [Tia10]. Borel [Chu84a, WOW09, YWO07]. Bott [CLX03]. bottleneck [AD17]. Bound [Cal03, Pat03a, Zhi15, Bal14, BGV11, BD84, CR15, Gil17, Kir00, KMN01, Kir09, Mar97, Pat09, Raj92, Raj09, Sol00, zSqSZ16, TD16, ZBW16]. Boundary [NS85, jAS15, BD88, Cha18, Che14b, Che16, CN07, CN08, ERS12, GMZ17, GW08, LLS14, LLS16, NNT95, Nak95, San14,Spi00, TG09, Uhl14]. Bounded [NP73, Bou18, CLN13, Dra18a, JKD16, Loe01, MRS10, Pop17, Rhe94]. Boundedness [SXR18]. Bounds [Cla92, GSS09, GRSW92, KS07, LLS10, LL15, LL10b, LLS86, Min80b, NS15, Rad12, Run97, Sch92b, VM07, Wall11, YHS13, AS12, Ben00, Bén11, CQW16, CW10, CW11a, CR77, CGH14, Dat16, DTS14, GHL10, Hav88, Hon99, JKB17, Kar83, Lás91, LZ11b, LGA+13, LL17, LS12, LS13, LZ17a, MC89, Mel13b, MZ15, Mer81, Neu84, PLH01, Pat87, Rhe87, Rh90, Rh94, Rob75, ST94, ST15, Sha91, SWL13, Sou03, TD14, Tia17, WiMR16, YZ14, YSY17, ZYL13, ZVL18, Zho16]. Boyle [KNX95, KNX93]. brackets [Kay17]. braid [Abd09, Lip87]. Branch [JS08]. branching [CPT15]. Brauer [HK13, LLL15, LZL16, Mel10]. Brauer-type
WBZ14, WW15, Yua98, ZB13. Characterizations
[AH10, An18, BT08a, De 78, FdSV16, HLH18, JQS13, Li95, LZ11a, LC18,
Pan13, Ruc89, SRW07, SZWB16, WL15, WZD16, Wer94, YZ13, ZXL16,
BJ96, Die84, ES98b, LST89, SSIFW15, IWW15, ZWL15]. Characterized
[EMS02]. Characterizing [GKT97, Joh11, LZ14a, Qi15].

Characters
[Leh76, BG79, Bri89, Fon92, Hol04, HK16b, Hua90, Kim91, Mer78b, Mer83b,
Mit10, Pat93, Reg87a, Sil84, Sta84]. Charles [Ano79b]. Chebyshev
[Ma'15b]. checking [RR95]. Choices [AP74]. chordal [JL93]. chordality
[BJ96]. circle [Dat80, Tho92c]. circuit [DP98]. circuits [Mer83b].

Circulant
[GN02, Sjo93, Wat85a, BSA17, Bom02, BT15, DPP17, GKS01, XJW17].
Circulant-style [Wat85a].

Class
[Ber02, BR04, MSZ04, BL10, Bea83a, Bea83b, Bea84, BR01, BM89, BZZ11,
Cha78, Cha96, Cha92, DD10, DS09, DWL14, Ell95, ES76a, Fal97, FNB96,
GMW86, HM76, HM78, JP86, Jun88, KM17, LT93, MRT16, MC82, Mer82,
Mon13, PMA16, Phu89, Pok87, Rei75, Sed11, SGS05, Sol80, WG91a, Wat82].

Classes
[DK02, MR74, ARH15, CL86a, CL86b, DP00, DF95, FJM00, Fie95,
Hil76, HT92, HK13, HK16b, Hon99, KSBM16, KCBR87, KS76, Kru04,
Lim76a, Lim76b, Lim82, Lim90b, MS08, MS83, MSO83, MS83, MS08, MM76,
Mer78c, Mer79c, ND05, Pop14, RH11b, Rob77b, Sil88c, Sil90, Sil93, SS96,
yT86, Tau81, Tra89, Tra90, WG91b, Zho16]. classical [CW81, CGY13,
CKL16, CJK+13, Dic84, Gra10, GL16, Hua16, Mar99, Ste82, Tam97].

Classification
[CLOK13, Dok83, GR93b, HI88a, HAI95, Lia80, Sol80, SLH16, SLH18].

Cleavages [dP09]. Clifford
[AF11a, AF11b, AF12, AN90, Chi78, GR93a, LS16, SL15]. Cline [Mos15].
clique [LL15], cliques [AS11b]. close [KK16]. Closed
[BVA17, HSO83c, Li92, PY82, Wat85a, Zha14b]. closedness [LD17, SXR18].

Closure
[BZ90, Lim00]. clover [WW15]. co [Mi15, SMBB+15]. co-flag
[Mii15]. Coalescence [GM90]. coalgebra [HT12, Pan17]. coalgebra-graphs
[Pan17]. Coalgebraic [Wis12]. coalgebras [Iov15, ML16]. coaxial [Wei83b].
cocharacter [Car88]. cocharacters [Car96, Di 88, Rem88]. Cochran
[T05]. codes [AS15, CW93, GTLN18, Hou09, KLZ10, Koo95, KP14b].
codimension [dB16]. coding [Gor83]. coefficient [BV16a, DH86, HT12].
coefficients [DL92, Dok93, Sen83, Tan12, ZZ15]. cographs [Tur18]. Cohen
[Cam14]. coherence [CP16]. Cohomology
[Zha15c, BCS18, Hou17]. cohomology-decreasing [BCS18]. Coinvariants
[CW18]. Collatz
[Zar01]. collections [LR89]. color [KP16]. colored [SGS05, SG09b].
colorings [Dia90a, SG09a]. colour [Zha15c]. coloured [KP12]. Column
[BB06, BWW10, For87, Pat83, PUO15, Xu15]. combinations
Combinatorial [Tra90]. Combinatorial [AD17, HS91, Tra89, CW89, CRY95, ER90, RS18, Reg87a, Wan79, WW01, Wil73]. combined [BGGS17].

Comment [Gro96]. comments [TT78]. Common [BDK+05, GKL82, Son14, Bar80, BKS12, DMD92, JP15b, JN90b, TT06, Wil87, Zha04c].

commutant [BBEL18, JS94]. commutative [Bas17, Coa99, Fer76, Gus81, LCL13, LL10a, LPW16, Mar12, Mas10, OWX09, ySpW17, Tan13a, Tan18a, Tia11a, Tia11c, WOY06, WZL13, Wat85b, WW05, YWO07, ZW10].

Commutativity [DS04, JR93a, JR93b, Kun99, BZ89, DS13, DK16, Fos05b, GR93c, HQ18, JQ15, LL11, Liu15, MS10a, Mol09, Pet97, QH17, Slo16a, WZL13].

Commutativity-preserving [Kun99]. commutator [BLR12, Fei79, GPR84, Gur79, GL83, MW74a, Nof15, Ob12].

Commutators [RR02, Smi76, BKL97, BH15a, CLR81, Est80, Gil17, HS17, KL12, MS95, OR09, Rob77a, Slo13a, WZC11]. Commute [Ric81, Tur02, BT08b, HS83a, KE82, Sin76b]. Commuting [Dra13b, Fra13, SB03, BH90, Bea78, BCM18, CWSZ17, CKL16, Fra17, Gur92, MS10b, TCI13, UP016, Wad90, Wan79, Wat77, Zel75].

compact [DH17, Kan16, Kit91b, MT11, Pep11, Ruo18, Ruc89, Tam97]. compared [BT90, ERS12, MR12, PH97, dPN81].

comparison [BS92, Blo95]. Comparisons [JM13]. compatible [dSP16b].

Complement [Zha04a, BT06, CPLH17, LM98, Neu81, PRS03, SL95].

complementarity [BS92, Blo95].

Complementary [BM15a, FS14]. Complements [Nie10, Bap88, BS18a, Bru79b, CS95, FJ15, Gih92, Smi83, WZ97].

completable [JJK95]. Completability [YD14]. Complete [GS95, JN14a, TL13, EM95, HZ11, HWZ18, HJ77, IS16, Obo16, Shr90, Tan13b, WOW09, ZWL15].

Completely [AKS18, DJL94, AG15, BSM98, DJ98, HH14, JP15b, Koo95, Lei95b, LP11, MP16b, SBMP16, Stu89, SL17, ZX16].

completeness [Den05, LBV13, IS15].

completion [BC05, BZ90, BR01, BS18b, CKP16, CP18, Der16, Der18, DJ98, DJK08, JJK95, JN14a, JTU00].

Completions [GMRS81, GKV89, GRSW92, JR84, JW91, Woe93, Woe97]. Complex [Ano79b, Bal78, CN04, JKS79, KFR17, Mac09, My12, Mir81, Wal73, Bal14, Cha90a, CT09, CH87, CL74, DL92, Dok93, HZ12, HQ18, Li84, LT88d, LM93, LT07, MF92, RH11a, RH11b, RSo06, Rom89, Sin82a, Sin84a, ST91, ST96, Soa08, Tan13b, Tan18b, Tie16, WL18a, Wes81b, tHK17].

complexity [BZ99, Con90, Har85]. complic [Bal79c]. component [BCS14, Das17, Fan73]. components [Bën10, KF98, Lia96, Mum86a, NS92, NS93, Vo83b]. Componentwise [Rum97]. Composite [Que08, KW93]. Composition [Tau81, TH80].

Compositions [AY93, BM07, Wil73]. compounds [BC91, TMOvdD93].compressing [EM15]. Compression [AP04, GW04, JM85]. compressions
Computation [KK16, SKP18, Ma’15b, Uhl14]. computational [Zel85]. Computation [YZ16, FP17, McF79b, vD96]. Computer [MP87a, KCBR87]. computer-generated [KCBR87]. Computing [Car06, CD15, Ous15a, PS91, Rem88, Roh00, Sta15a, Uhl13, FHZ17, GA85, KPL+09].

concave [AA12, Tam02]. Concavity [BD85, Mat90]. concepts [AR15, Shi15b]. Concerning [Har96, Sin80, Sin81a, Sin93, ST99, Tan74, BK87, GT79, Gyi78, KNX93, KNX95, Mou13, Sin82b, TT78, TH80, Zou12]. Concomitants [BB96]. condensation [Cal91]. Condition [LPS09, CC98, DS13, HB83, Jam88, Jam95, LLW+11, LL17, Liu17, Pal79, Rou98, Sim98]. Conditional [HS12, BG16, FHZ17, Joh82a]. Conditionally [Józ15].

conditioning [Que02]. Conditions [Ibr00, JNT96, Lim92b, PH03, AE10, jAS15, BMGM15, CHQ18, DJK08, EOvdD09a, EOvdD09b, GMZ17, Gue17, HB83, Hua16, Ikr15a, LLF18, Mar90, Mat11, Oku93, Pet09, SQ15, Tia05a, Wan82, ZW17b]. Cone [KS02, LMR00, And96, Hii07a, Hii11, Pat03b, TB92, YH05]. Cone-Systems [KS02]. Cone-transitive [LMR00]. Cones [FH73, HS88, SS79, Bar74, Bar78, BC80, BKS12, CCL14, Hii07b, JP17, NS85, NST91, Tam77]. conference [Ano79c, LRT08]. configuration [NS09, Nat13, SG06]. configurations [TL13]. conformal [aCC17, DH18]. Congruence [LT92a, Lei98, MA75, ACI15, Bot97, FJ01, FJ09, GL97, HH89, HS09, JR09, Le91, Le95b, LM93, LPWX10, Tam85, Tho80, Wat90, Wi83]. congruences [HH85, Ikr15b]. Conjecture [Kit81, Wan07, 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, Lon80, Lon81, ML12, Mal89, MR07, Min74d, Min82b, Moh15, NT94, Pat89, Pat93, Rad80, Ric85, Ric87a, Rub89, SYZ17, Si184, Sin81b, Tam86, Wan77, Wri93, Yu96, Zou12, dF05]. conjectured [Tho86b]. conjectures [Ash16, Cha90b, Kop94, Mch84, Shi16]. conjugacy [Ell95]. conjugate [CD01, JTW17]. conjugate-Hankel [JTW17]. conjugate-Toeplitz [JTW17]. conjugation [Gal01]. Connected [KS17a, RP90, ACMR17, MT11, Put82a, Put82b, SSfW15, SHS17, ZW17b]. Connectedness [MT11]. connection [BP71b, Lon73, MZ17, MP98, MA15c, ZG08]. Connections [Wal79a]. Connectivity [FP03, KP02, ZG11, BP98a, BL12, FHZ17, Fie90a, GZY18, KN97, KF98, Kir00, KMN01, KN04, LCC17, Vo83c, Wu05]. consequences [GT11]. consistency [FWH16]. consistent [Gib89, Sti87]. consisting [TL12, ZWW10]. Constancy [Bal79a]. constant [BF75, FV97, For79b, Fc76, GLR82, KS93, LSOvdD95, Wes90]. constants [CCL14, Che95b, Gol87, JRMFMA16, Ma’15b, MFPS12]. constrained [LMR94a, LW11, Nak95b, Pap13]. constraint [ILyP15, ZH11]. constraints [Db09]. construct [CG17, Sio14a]. constructed [LF16]. Constructing [GPM14, LF15, Sou83, MM15]. Construction [Ber86, HK16a, KW92, KW93, Mai11, MC86, SDVWT16, Sml05, Sun15, Wal75b, WW80, Bha93, CC17b, Far93b, Foa79, Hun83, JS08, JSW09, TT74].

13

Decomposable [MC78, Mar78, dP74, BD97, BLD91, BL92, CL95, Che94, CL94, CT09, Har87, LT88b, LZ01, Lim92b, Lim97, Lim01, Lim10, Loe01, MF79, MC80, MC83, MC89, Mer77, Pat90, RS17, yT86, Wan82, WG91a]. Decomposably [GP96]. Decomposing [Sza09]. Decomposition [AJL14, CM85, LP02, YQ90, CM92, CH87, FLS88, GHT16, HT10, LK16, Mar78, Mar18, QD85, Ro099, Smi83, Sta15a, Tia11a, jXL15, YZ16, Zha15a, ZCC17].

Decompositions [Fen10, BB17a, Fur08, GVS96, Hor04, Kru06, LMMR01a]. decrease [Sin76a]. decreasing [BCS18]. Dedekind [FSvW11, GMR81, Tan18a, Wag87]. Dedication [Tho92a]. deduction [Joh82a]. defect [CK17, SU77]. Defekt [SU77]. deficient [LL18]. defined [ES76a, GP06, HSM17, MC80]. Definite [DH03, AO78, Bak84, Cha92, Cha03a, Che92, DPP17, Dru15, DWL14, Fan73, Fan92, Fla75, FS15, FSY16, GMZ17, GMW86, Har78b, HBP18, HM18, JN80, JP87, Józ15, LMLT05, LL14b, Ma11, MK16, Mol15, Pat92, ST94, Zha04c, Zha16b]. definiteness [Cha90a, Ibr00, LL16b]. definition [CKP09]. deflation [Ami11].

Deformations [ZL15, Bre17, Zha15c]. Degenerations [KPPV18]. Degree [Yiz03, Bz00, BM89, Cal94, Cal97, Cal99, Cha77, Cha79a, CPLH17, DTS15, Eri15, Gro95, HW75, LLF18, Mar90, MP73, Mer78c, Mes13, O'R15, zSqSZ16]. Degrees [HS87, MZ17]. delay [CW17]. delayed [DHKS16]. delete [BVW84]. delete-contract [BVW84]. deleted [LS09, ZWL15]. dendiriform [Bre17]. Dénès [Aha76]. density [BLX18, GHL16, MN12]. dependencies [Km85]. dependent [GMZ17]. depth [Vo83c]. depth-first [Vo83c]. Deree [Cal03]. derivability [CW11b, CW12]. derivable [Cha12, Jl12, LPS13, LF13, Wan17a, Zha16a, ZW14, ZXL16]. derivation [Bou06, Hou17, MS87, WHX08]. Derivations [Che03a, Lim92c, WOY06, WY10, Ah10, Ah13, AXH15, Ben07, Ben15, Ben16, Bre16, Cal94, CGOT13, CX12, Da 94, DD15, EPR16a, EPR16b, FZ17, JlZ12, JS13, KP16, Kh16, LW15, Lee1, LCL13, LZ11a, LW11a, LB11, LFL14, LL10a, LL11, LCL14, Liu16a, Liu17, Lon76, MJ07, Mag13, Mag14, MW74b, MA75, Qi15, QZ16, ST99, TRD16, WY11, Wan18, XW12, YZ13, ZW10]. Derivative [Tur02, Dec74, DM87, MS81, OvdD77]. derivatives [KE82]. derived [EB17, HS91, SK15b]. described [Gon17]. Description [GMZ11, Bal18, Hi07a, Hi11, Li92]. Design [Chu84b, WM84]. Designs [GK02, NW02, Der83, GGW76, LN10, Sna17]. detection [Kar90].

Determinant [CD03, Nag17, BS15b, BM07, Cal91, FV97, FLR85, HS96, Hon91, JOTvdD94, Kua18, Lau81, LSvdD95, Lim79b, Lit17, LCS8, McD82, Min77, QK92, Rou98, Ve182c, Wen06]. Determinantal [BJ94, CNUV16, Kyr11, YW09, BP98b, Dru14, DL14, HL84, Hon92, Hon93, Li92, LZ17b, Lon97, New79, New82a, Ve83a, dC13, dC15]. Determinants [BT15, HZ11, LT12b, MN80, Mah82, New80a, PA94, Pri78, SvW14, TT12, Tan14, TT78, BMD87, Bla77, ES73, Est80, FW86, Gar75b, Hon99, HH14,
JNT96, LPS08, Loe87, MS89, Min80b, Odo83, Sim83, Sto79, TX13, Tho75a, Veib82c, Veib82b, Veib83a, Veib83b]. determined [LL16b].
determined [Bre12b, BH15b, Gha13, Gra11, MW11, MA15c].
Determining [BMGMC15, Kas85, Vo83a, AS12].
developable [BB13].
Developments [CD85]. Diagonal [BGGS17, CS18, Wan76, Bal79b, BBP78, Bovd91, BKS12, BS08, Bur95, DHS95, DD12, FS89, HH85, Hon91, Ikr15b, JR09, JLD12, Lee18, LM9, Lon90, Mir92, Moo76, Neu83, Pat82, Pok87, Pri78, Sha91, Sto79, TT78, WOY06, WC12, Zab89].
diagonalizability [Kob06].
Diagonalizable [Tur02, KS16, Nie14, WW12]. Diagonalization [AY74, MS10b].
diagonalizations [Uhl79].
diagonality [Kob06].
Diagonally [BCKP10, LMLL17]. Diagonals [EM73, Pi87, BS08, Las91, Web83].
diagbras [BPSO12, FSFSO+14, KV13, SDVWT16].
Diameter [JS16, Tsi83, GL11, LP07, TJ11, VH95, WH11].
diagonal [Cir17, LPT14].
diassociative [Bre17].
Dickson [FSFSO+14].
dicyclic [DP00].
Dieudonné [BGLS07].
Difference [Kob06].
Diagrams [len80].
Differences [Kob06].
Different [Banc10].
differentiable [CFP10, Nom73].
differential [BBT07, BZZ11, Cam83, CW17, DTSI15, Fin92, HSX16, Lon76, NS99, NT91, Wit11, XSL15].
differing [New93].
dimensional [KR03, AHT85, DH17, FN14, HP90a, Jv99, Jvd91, Mla93a, Sal14, Sil88c, Sil88b, SS96, TCI13].
dimensions [Hil76].
dimensionality [Hil76].
dimensions [MR74, Cas91, WM90, MM76, WL6a, WL6b].
dimer [Min80a].
direct [BC06].
dimension [AZ02, Gra80, How80, Lim00, BM14, BM16, Cen11, CL86a, CL86b, CR77, Con77, GPK94, MM90, MN13, Pam87, Rob75, Rom89, TH14, Wri93].
Dimensional [BR04, ySpW14, ARH15, AELPM18, BC83, Bar07, BB14, Car88, CDJ13, CW11b, CX12, CL17b, Das17, Dok83, Edw78, Far94, G079, Gol07, KK75, KL15, LF15, Liv94, Nag17, Nir11, Pas15, Rai87, RH11a, RH11b, R80a, R80b, Sel81, T17, Tan18b, WC12, YLL90].
Dimensionality [Hil76].
Dimensions [MR74, Cas91, WM90, MM76, WL6a, WL6b].
dicker [Min80a].
dict [Dim15a].
Dimension [AZ02, Gra80, How80, Lim00, BM14, BM16, Cen11, CL86a, CL86b, CR77, Con77, GPK94, MM90, MN13, Pam87, Rob75, Rom89, TH14, Wri93].
Dimensional [BR04, ySpW14, ARH15, AELPM18, BC83, Bar07, BB14, Car88, CDJ13, CW11b, CX12, CL17b, Das17, Dok83, Edw78, Far94, G079, Gol07, KK75, KL15, LF15, Liv94, Nag17, Nir11, Pas15, Rai87, RH11a, RH11b, R80a, R80b, Sel81, T17, Tan18b, WC12, YLL90].
Dimensionality [Hil76].
Dimensions [MR74, Cas91, WM90, MM76, WL6a, WL6b].
dimer [Min80a].
d’integrales [BC06].
direct [BH10, Fow80, Gol92, Hoi85, Hol85, KLO14, KL13, LW10, Tho92c].
directed [Bru82, Gu88, Kir14, Lee98, Wu05, XQ16a].
direction [KM17].
disaggregation [HU17].
disc [CPLH17].
Continuous [GL01, Fri97].
Discrete [Dic84, FN14, GMZ17, HMO11, K89, R87].
Discriminant [Pie79].
Discriminants [Wad85, Edw80].
discs [AK94, GW12].
Disjoint [Bru79b, CT16, Tia11a, WSH+11].
displacement [Boz97].
Disproof [Gib87].
Distance [Ane95, BHD11, BCA12, HW08, LT9a, LLD17, Rum97, Sha15, ZW17a, AW07, AH16a, Ane98, BS11, BK17, BS17a, CC14, CFSMO6, Cos14, DIF13, GB11, HS95, HS16, JK95, KLPK17, LS12, LS13, LL15, LZ18, LT13, LG17, MS89, NP13, Pat07, RP90, Sch92b, SP7, TG09, XZ14, XZ16, ZG11, ZB16].
Distance-regular [BC12, HS95].
distance-regularity [CFSMO6].
distances [SW215].
distinct
Ano88e, Ano89b, Ano89c, Ano89d, 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, Ano93f].

**Editorial**
[Ano93g, Ano93h, Ano94a, Ano94b, Ano94c, Ano94d, Ano94e, Ano95a, Ano95b, Ano95c, Ano95d, Ano95e, Ano95f, Ano95g, Ano96a, Ano96b, Ano96c, Ano96d, Ano96e, Ano96f, Ano97a, Ano97b, Ano98a, Ano98b, Ano98c, Ano98d, Ano98e, Ano98f, Ano98g, Ano99a, Ano99b, Ano99c, Ano99d, Ano00a, Ano00b, Ano00c, Ano00d, Ano00e, Ano00f, Ano01a, Ano01b, Ano01c, Ano01d, Ano01e, Ano01f, Ano11a, Ano12a, Ano13a, Ano14a, Ano15a, Ano16a, Ano16b, Ano16c, Ano16d, Ano16e, Ano16f, Ano16g, Ano16h, Ano16i, Ano16j, Ano17a, Ano17b, Ano17c, Ano17d, Ano17e, Ano17f, Ano22a, Ano22b, Ano22c, Ano22d, Ano22e, Ano22f, Ano22g, Ano22h, Ano22i, Ano22j, Ano22k, Ano22l, Ano22m, Ano22n, Ano22o, Ano22p, Ano22q, Ano22r, Ano22s, Ano22t, Ano22u, Ano22v, Ano22w, Ano22x, Ano22y, Ano22z].

**effect** [LLF08].

**Effective** [CMM17].

**Effects** [GLS16, TJ16].

**efficient** [AAB17, Sma17].

**Egorycev** [Min82b].

**eigenbases** [AC13, Akl15].

**eigendata** [GPM14, MMG15].

**Eigenfunctions** [Red02].

**eigenmatrices** [Kir11].

**eigenparameter** [GMZ17].

**eigenparameter-dependent** [GMZ17].

**Eigenproblem** [lWpW14, BOvdD95].

**eigenspaces** [GTM14].

**Eigenvalue** [Har78a, JSE90, MMRR16, Ano16b, BNP06, BLF08, Bel15, BPS16, BWP16, Bén11, BCK15, CC17a, CQ17b, CQ18, CQ17, CR90, ES76a, Esc93, Fan05, Fdo09, Gar85, Guo07, Har95, Joh84, JL85, JLR92, JLS09, JLS12, KMT96, LP00, LLF08, LLZ13, LLL15, LL16b, LZL16, LW12, LZ15b, LP17, LQ17, LR17, LR16, MR16, MS15a, PLH01, dSP12, Rea96, SG96, SH15a, Sim95, Smi05, Sta10, Tho92b, Tre85, Tre08, Ves80, Wall11, XZ16, ZHS11, Zha15].

**eigenvalue-eigenvector** [Har95].

**Eigenvalues** [AHT85, AM85, And04, BWF83, But10a, Cas91, FJ00, FIS06, GKV89, Gro95, HL93, MS95, Rod02, Ter09, VH95, Wea83, AM13, AS17, AB78, Ano16b, Ash16, AOTR11, BOF05, BOvdD91, Ben90, BT07, Brus82, CTW15, Cra90, Da05, Dus04, Deu80, DM79, DJ89b, Edw78, ELG88, EJ91, Esc93, FJ15, FWZ11, FS14, Fer10a, FW13, FS89, GRSW92, GJMW86, GZ90, GHK16, HA89, Her83, HS93b, HU17, HW75, Ilm16, JH17, JKB17, JKS79, JS80, JSP09, KRS09, Kir91, Kir90, KLKP17, KNX93, KNX95, KK16, KL16, Le18, LL14a, Mac90, MVPS14, MS89, MR07, Mer94, Mon13, NS99, Nle10, NTU93, Pal79, PGLM00, SU77, ST15, Sil88a, Sil93, Sil99, Ter01, Ter06, TH74, TL12, dMO17, dOMD77].

**Eigenvector** [RP90, Che14a, CPZ17, Har81a, Har95, Hav88].

**Eigenvectors** [BD14, AM13, AGM13, BWF83, BDK+05, ER81, Fan88, FJS14, Fre76, GF10, HQ14, Lit17, MOvdD90, McD92b, Moh16a, Wea83].

**Eigenwerte** [SU77].

**Eight** [Tia10, Dok83].

**eight-dimensional** [Dok83].

**Einstein** [BM17a, SZB16].

**element** [BB17b, DSH95, Fer97, HW75, ZCP16, ZCP17].

**Elementary** [BC91, CL13, FL16a, Gau76, MW74b, McF79a, MP73, MS92, Pie85, Sed04, Ano95, Boa13, DS16, For87, Jam81, Joh81b, KKR12, Kri87, Li87b, MS82b, MKS84a, McF79b, Min76, Min82a, Nor88, Oge94].

**Elements** [Gor04, BBBS09, Boa13, BM17b, Brel15, BS07, Cro18, Deu80, DKS09, Hon91, HK10, KMS85, LR13, LPT13, Lim10, Lon90, MV91, Mir92, dSP16a, Sch79, Slo13c, ZCIW12].

**eliminated** [TB01].

**elimination** [BJ94, LW10, Stu92].
Elliptic [CN15, GW08, GW12]. Elliptical [BS04]. embedded [Fon92].
Embedding [Cra91, Wal86, Gue17, TZ17]. embeddings
[De 08, Hor04, Pan13, SZ85, VDW85]. empty [LPS09]. enclosing [vD96]. endomorphism [ZY08]. endomorphisms [GR14, Mol15, Rus16]. Energy
[Mer94, PR08, Ste05, BP14, BB15, BSC+12, FHT14, GB11, Hou01, KFR17, Rad12, Tan12, Tur18, ZZ15]. Engel [DS13, Liu17, Mat11].
entanglement [Aud15, Joh14]. entire [SK15a, SK15b]. entried [dPN81]. entries [Sin81a, BGV11, BGGS17, CJ97, CL14, FW07, FW86, Her83, HNS99, INO15, Ito16, JKD16, Mee80, Min84, Moo76, Pok87, SG96, Sil98, STZ94, Zel75]. Entropy [Zha14a, Dru13, Fur11, MN12, ZBW16]. Entry
[Che03b, Cha84a, JLD12, KS82]. Enumeration
[Chu90, WW76, Whi79, Wil83]. enumerative [Whi75]. envelope [Chi98].
EP [BT08a, DKS09, HS83b, MRT16, PM14, WD17]. Epimorphisms
[AW83, Bot87, FHT14, HW75, Lim90a, Lon90]. Equalities
[AC78, BCI13, MS74, MC80, Tia01, Tia05b, Tia11c]. Equality
[CGW14, Hia94, CL85, DSD83, Din98, HS89, JH90a, LN11b, LW10, MC83, Oku93]. Equation [AP74, Che93a, Tia03, AGR91, Bak84, BDG92, Che93b, CK84, CIDK07, Dat80, De 13, DVL13, DWL14, GPM98, HW13, Igl99, LRR87, Lei83, LQ95, LT10, LR89, MK16, Ned98, Roh04, Sal14, SWL13, SPK15, Ve83a, Wil83, YL11, YLW15, YZL17, Zha16b]. Equations
[DH03, Fla74a, Pas16, BBP78, BS17d, BC06, BZ11, BSS12, Cam83, CL80, CW17, CCL10, D86, DTS15, DH11, Din00, EO15, FHW16, FN14, Fiu92, Gra80, Har94, HKT15, HW14, HW15, HSX16, Hla17, HB18, HM18, JvdD91, JSY14, KP11, KM17, KN81, fLLL+17, Lip96, Lon76, Mag83, NS99, New80b, Pen15, PM78, Roh91a, SLUG04, Son14, SK15a, SK15b, ST97b, Tia00, Wal75a, WH12, WZH13a, WZH13b, XSL15, YqS16, YW16, Zha04c, BC06]. equienergetic [LS90]. equiponderant [Pif87]. equitable
[Aln11, AC13, Aln15]. Equivalence
[go87, New79, Zha01b, Ari16, CH87, Der18, Dru13, EO09a, EO09b, Gow80, GRü76, HW18, HW08, Hou09, New78, Oge94, Pet00]. Equivalent
[AXH15, Bru79a, Hou09, Ve83b]. erasures [Ano16c, Ous15b]. Erdo [LN16]. Erdos [GP17b]. Ergodic [MSS13, Har84b]. ergodicity [Sen83]. Ernst
[Ve83a]. Erratum [Ano79b, Ano16b, Ano16c, JZ95]. Error
[Hav88, MS16b, Ned98, SWL13, UZ16]. errors [AM13, CL15]. Essential
[BHC16, JKD16, JL10, ABJ16, JR91]. Essentially
[Joh73, Joh74a, Joh81b, NST91]. establish [Tia18]. Estimate
[Gil11, Bou06, Con77]. Estimates
[Fri93, GHK16, LL8+11, MFPSS12, AP17, CPLH17]. estimation [BLX18]. estimations [FZSX17]. Estrada [Sha15]. Euclidean
[AW07, AGR91, Gil16, GT11, JJK95, ST15, TG09]. Euler
[Prz92, TD14, Tal17]. Eulerian [Gar79, TB01]. evaluated [Mes13]. evaluating [Cal95a, TX13]. even
Eventual [YHCW14]. Every [Slo17, Vas86]. evolution [CGOT13, ORT15]. Exact [FP17, FHW16, HSX16, Hua01, MO93, Tia18, XSL15]. exactly [Esc93, HW75]. Examples [Wes90, KCBR87]. exceed [BPW16, Sta10].

exceeding [LZ15b]. Existence [DHS95, Her83, AE10, Fow80, LRR87, MHA17, Nas74, Roh91a, Tie16]. expanding [Che95b, EM15]. expansion [CRY95, Hon91, Krä87, TSYB82]. expectations [BG16]. experiments [Con90]. Explicit [CICX09]. explicitly [KS16]. Exploiting [HWSH13].

Extended [GRMA13, De 75, GHL16, HZG14, Mar78, Mas10]. Extendible [BS07]. Exit [Cir16, Sol00]. Extension [Hua90, LS16, Lei83, LLW07, Pat81, SL17, BR01, BD13b, Far94, Fie73, FH89, GJR97, HS75, Hou17, Kua18, LZ17b, LZ12, Mii15, ZZY16, Zha15b, DC13]. Extensions [All14, Atk91, Dji16, Gar75a, Hal86, LL14b, SPS15, BWLL12, BG83, BCS18, EL90, Epk98b, Epk98a, Far93a, Hua09, MV75, Mitt92, MP13b, TT12, Wer84, Wes96, ZL15, ZN18].

External [Tam98, AGR91, Coa99, Gre99, GV78, Jac79, Lim77]. Extermal [SM94, Lei95a]. extremal [For87, KKR12]. Extremal [BP98b, CJ97, CH12, Grz89, GLS13, KN00, Tia11b, AO78, BSG+12, BK87, CSCH01, Fla75, Li85]. Extremals [YH05]. Extreme [Pat03b, Tho75a, Kan87]. extensions [ELG88].


Factorization [ADRP14, Bot94, DKSO9, GLR82, JT03, KML95, KLZ96, Vin04, Ad15, BG86, Bot96, Che07, Gal01, HZ12, LYS15, LL17, MZ04, MR12, Neu81, Rem90, Sou86, Sou92, Tia11c, Wim88].

Factors [Gal03, cc85, Joh81b, LR96, MR97, RR91, Wal79b]. Factors [Ger74, Aze99, Fow80, HS85, HS87, MZ04, NT86, Sil88b, Tho87a, Zab99, Zab90, ZYL13].

faithful [CR15, Man17, WL16b]. Faithfully [RD12]. families [AAS14, BD14, CM15, HH85, MR17, Mer97, Ve83b]. Family [KMS02, KS16, Kan87, KMEO12, Nom73].

fan [Adk95, Smi94, Gro17, JLL88, MP94, MP95, Mos12]. fan-pall [Adk95].


Fibonacci [DH17, EB17, KI16, Sl16, TED16, D1F1]. fibres [MT11]. fidelity [ZBW16].
Fiedler [BD14, CGMR11, Kua18]. Fiedler-like [BD14]. Field
[Ric81, Ber05, Bra86, CJK+13, DB14b, Ell93, Fri90a, Ful76, Gib76, Joh75b,
KK90, Kyr11, Mau78, Mee80, MN13, New93, Ota13, dSP16a, PM81, PM85,
SMS15, Uhl79, Uhl14, Wes96]. Fields
[XCC99, Adk95, Ben74, BM12, BD13a, BZZ10, CC17b, DP09, Epk89b,
Epk89a, Far17, GWZ14, GWZ16, Hai88b, Haw05, KC16, Moh16b, MP13b,
Nor95, Nor08, Sta14, Sta15b, Wat89]. figures [Pok87]. Fillform
[CCGO11, ARH15, CLOK13, KLO14, LBV13, RH15, RH11a, RH11b]. Fill
[Dji16]. fillings [AW13]. filters [Chu84b, Pat17]. finally [Uhl13]. Finding
[Vo83b, HKT15, Sol14]. finest [Uhl79]. Finitary
[DS02b, DW16, BFK18, Khr16]. Finite
[BR04, Che95a, Dre93, KLS08, LM03, Tan74, Adu15, AMZ13, BG16, BM12,
Bra86, BD13a, CCS16, CC17b, Car88, CDJ13, CP15, CW11b, CZY12, CX12,
Das17, DL92, Dok93, Ell93, EST6b, Fal97, Ful76, GA85, Gol79, Gol07,
GWZ14, GWZ16, GX17b, Hol04, KC16, Kes83, KK90, KL15, Lew77, Liu16a,
Mat90, MGA17, MN13, Mir09, New80b, Nir11, Pas15, PA94, PM81, PM85,
RÖ80a, RÖ90, Sei81, Tan18b, Tho92c, Wat92a, Wat89]. finite-dimensional
[CDJ13, CW11b, CX12, Das17, Gol07, KL15, Nir11, Pas15, Tan18b]. finitely
[BS15b, Ber05, MMO11, Hua96, TLC16]. finiteness [FSvW11]. First
[RP90, BC06, KN00, Vo83c]. Fischer
[BJ49, Dru14, DL14, ES76a, HB83, MHH96, Mar76]. Fischer-type [Dru14].
Fishkind [Dji16]. five [HM76, HM78, MO91]. Fixed
[XZ16, Ach77, BOvdD91, BK+10, Cha84a, DM87, GL11, Hon92, JP07,
KS17a, LP07, LT93, TH14, TJ11, Tia17, Wes87]. fixed-points [Hon92]. Flag
[HLZ02, Mi15]. flagged [Cha90]. Flanders [GJR97]. Flat
[CN08, 8RS12, Pat84]. flows [Lee98, LT13]. force [CN14]. Foregger
[Cha84b]. Form [Afr73, New94, Arm17, BK17, Bed11, BG82, Cha96, Der83,
Ger82, GRMA13, HS83c, HWZ18, HH85, Ikr15b, IH11, INO15, KH05,
LM94a, Mau78, Nak95, Nor95, PS91, Pro95, Shr90, Uhl79, Vei83a]. formal
[BC06, CQH15, MI15, Reg89, Rys75]. formally [Adk95, BB75]. format
[Sta15b]. formation [dC15]. forme [Rev81]. formelles [BC06]. forms
[AY93, Bae84, BT90, Bed10, BX11, BS13, Chi78, CO12, Dra17a, Epk89b,
Epk89a, Fei75, Fow80, Ful76, Gal79, GP14, GQ06, HL90, Hor94, HS09, IK12,
KN81, Lee18, Lew96, Lew97, Mar97, MN13, PM13b, O'R15, Per17, Pie74,
Rob77b, Sin93, Sol80, SP14, Sta14, Sta15b, Tan18, TS05, Wag87, Wil93].
formula [AH16b, Bed11, BG90, Cal91, Cla82, CD15, Dji16, Ebe80, FZ11,
GR93a, IW95, Kraj87, Lei83, Mit10, Mos15, NST89, SwW14, Tho86b, Wen06].
formulæ [BJ94, BT11, HS83c, Rem82, Van95]. formulas
[AYC93, BSA17, GRMA13, Rom82, SQH15, ySpW14, Tia18]. Formulation
[CN04]. Four [Kom10, Edw78, Gra87, HWZ18, Tal17]. four-dimensional
[Edw78, Tal17]. Four-term [Kom10]. Fourier [Dok93, DL92, KW89].
Fourth [KMS02, jAS15, GM87b]. fourth-order [jAS15]. fraction [TSYB82].
fractional [Rei77]. fractions [CM85]. frame [Far17, KL13, SA17]. Frames
[AB17, Ano16c, FD14, KLS08, Ous15b]. Frattini [GLOT13]. Fredholm
Free [Alp95, Dre93, Egg95, GB77, PA94, Sla16, Sur98]. freedom [HS93c]. freely [Sch79]. French [BC06, Del94, MM92]. friendly [Koh11]. Frobenius [BOvdD95, BGLS07, Bla77, Fie73, Gil17, GS83, Gut01, HL84, MHH96, Mit10, Nag17, SPS15, Wan79, Zou12]. Fuglede [Ras17]. Full [Har91, Mum86a, AEdF13a, AEdF13b, LAF84, MSS18, Wan17a, ZWM17b]. Fully [Har87, HL10, Liu92]. function [AFM13, BH16, Bon14a, Bon14b, CRY95, Cha92, Cha93a, Da 88, EDKA07, FD14, GP14, GP74, HSM17, HFS15, How80, Jan81, Kap77, KN04, KK16, Lei95b, Lim00, Lon73, Pam87, Per17, RW84, Sal14, SMM14, SMM16, SK15a, Tia17, Wan79, WAZ16].

function-induced [Da 88]. function-valued [FD14]. Functional [Fre76]. functionals [Lee15, MR75, Pap13]. Functions [AMP02, Hon99, Pie85, Tam02, Tur02, You80, Anj17, AA12, BT13, Bal79a, BCN05, BC82, Bea83a, Bea83b, Bea84, BC85, BD85, BL93b, Bra86, BHH86, CH12, Che91, CP10, DV18, DLR91, Dra10, dra11, dra16, Fan83, FS83, For87, Fri81, Fri90a, Gam00, GR81, Gib87, Gil93, Gill2, GOL89, GOL90, Hau12, HBT73, HWL92, HOT15, HoF75, HH14, HLPW17, Joh75a, KD16, KH05, KKR12, LR96, Li87b, LT90a, LT92b, Lim10, Lla96, LC83, MS10a, Mat90, Mer74, Mer79a, Mer82, Mer83a, Min76, MRS10, PSM16, Pat83, Pat93, Pat03b, Pat17, Pie92c, RR91, Rem90, RW96, Sal12, Sat11, SW81, SK15b, TLC16, Tbk98, Tre85, Tre86, Wat77]. Fundamental [Mac09, Far90]. Further [BHK78, BM17a, DW12a, DIF13, GHL10, HOW83, MRT14, Mis17, WC15, ZCP16, JLL11, Zha15b]. Furuta [Dra13a, FJK98]. fusion [SA17].
KF98, KMN01, KADM10, KS17a, Lee98, LZ11b, LT11, LS12, LS13, LLD17, LL10b, LZ14a, LZ14b, LDL17, LLF18, Lor00, MW15, MH16, MS16a, MGA17, Mer97, MS10c, MTR11, MN04, NS15, NS09, Nat13, NP15, NP09, NG15].

Grassmannian
[MR75, PT10].

Grassmannians
[Pas16].

Grassmann-embeddings
[De 08].

Grassmannian
[MR75, PT10].

Grassmannians
[Pas16].

Gray
[CW93].

Greater
[Ano16b, BPS16, PGLM00].

Greatest
[Bar80].

Green
[Put82a].

Grigov
[CDJ13].

Griffin
[Rie87a, Rie85].

Griggs
[Har84a].

Grothendieck
[PSS15].

Group
[BK98, CKN95, DS02b, Pat96, SQM99, yT00, ZBW12, Abd09, AF12, Ano16c, BB06, BAN12, BT06, BLZ10, BLZ11, BSU13, BH15a, Bot79, BZZ10, Cha90a, CCS98, CNW93, CHu94a, CW93, DP00, Ell93, Ell95, EST6b, Fal97, Far90, FJK14, FH17, FP17, Fri85, GA85, HK13, Hun83, Hun86, JGK79, KW92, Lew77, Lip95, LW11, LW11, LW11, MW16, MN80, Mah82, Mah92, Mar84, MT11, MP16a, MS15b, MS16b, Odo83, Ous15b, Pat89, Put82b, PH97, Rai87, RP04, Sch75, Sch78, SX12, TW17, Wan80, WZL13, Wan16a, YQ90, ZWM17a].

Groupoids
[RD12].

Groups
[Gur97, KME012, LM03, AF11b, Adu05, Ber05, Bri89, BS07, Cha77, Cha79a, CL86a, CL86b, CP15, Den05, Dok81, Don91, Dre93, Fon92, Fri97, GL16, GT97, HT92, Holo94, HS17, HW75, KIm91, Koh11, Kra05, Kra06, LTB93, Mah82, Mal95, MCO80, Mar00, MZ17, MGA17, NP73, OTA13, Pan13, Pat82, Rei75, Sla16, Slo13b, Tam97, Ti17, Vin06, Wat79a, Wat89, dB10].

growth
[CdSS17, FdSV16, GdSV16].

Griess
[DM17].

Guage
[HWL92].

GW
[Hai88a, Hai88b].

GW-rootsystems
[Hai88a, Hai88b].

H
[Cha84b, MP13a, WSZL17, Wan77].

H-tensors
[WSZL17].

H.
[Cha83a, For79c, Jia92, Kra87, Mal89, New83].

Hadamard
[AHJ87, Aue98, Bap91, Boz99, Cha18, Cra91, Dok17, Dui10, EM95, EF98, ES76a, FKR93, Fri75, GP74, GN02, GJMW84, GMW86, MG87a, HB83, Hey92, HJ87, Hua08, XL16, HK17, Joh77a, Joh74b, Joh75a, Joh77b, JM85, JN90a, JN90b, JN00, KLZ10, KMS02, MKS84b, MF92, Mat92, SAV01, Wal73, Wal85, WZ97, Zha00, Zha89].
half
[DS16].

Halfplane
[Rod08].

H.
[LB99, HL10].

Halmos
[Zha95].

Hamburger
[ACJ17].

Hamilton
[LN16, Paz84, Van95, ZW17b].

Hamilton-connected
[ZW17b].

Hamiltonian
[CQH15, CHQ18, GZY18, Mer83b, NG15, Nof15, RY93, WC12, ZW17a].

Handelman
[KNX95, KNX93].

Hankel
[BG83, Boz99, Ikr15b, JTW17, KS16, Lew97, MH96, Sol06].

Harmonic
[ST94, Web83].

Harnack
[LY17b].

Hartwig
[DD14].

Hasse
[Gar75a]. **Hausdorff** [BB14, CW11a, DST14, DTS98, NST79, TD14, Tal17].  
**having** [BCEM12, BCS14, DH91, Est80, JGK79, JS84, JOvdD84, Šem97].  
**Hecke** [LT93, Mit10]. **Height** [HS89, AHK92, HS91].  
**Heinz** [Ala16, BM15b, GHT11, KM11, KK13, LS15, Man17, NS18, SYK15, SG18].  
**Henryk** [Mar03]. **Hecke** [LLT93, Mit10].  
**Height** [HS89, AHK92, HS91].  
**Heinz** [Ala16, BM15b, GHT11, KM11, KK13, LS15, Man17, NS18, SYK15, SG18].  
**Henryk** [Mar03]. **heptadiagonal** [Lit17].  
**Hereditary** [EGT16, KM98].  
**Hermite** [BFZ07, CS18, Sin93].  
**Hermitian** [–Dok93, AM13, AAB17, AY93, AB78, AY74, BT08a, BY76, BL83, BM16, Bur11, CM92, CTW15, De 08, DL92, Dra17a, FdF09, FH89, Gro97, GJM16, HR85, HNS99, HW06, HM95, JN80, JR84, JL91, JS08, Kim91, KN81, LL16a, LP03, LW17, Loe87, Mas10, Mir92, NTU93, NT94, OK70, Pat92, Pat03b, ST73, ST91, Sta15a, Tho92b, TL12, Tis93, Tra84, WZH13a, WZH13b, Woe97, YIW15, Zha04c].  
**Herstein** [AEV12, IT16].  
**Hessenberg** [KP14a, MR15].  
**Hierarchical** [BCDF09].  
**High** [SWL13, WG91a].  
**Higher** [BdP12, CGW14, CL17b].  
**Higher-dimensional** [CL17b].  
**Higher-rank** [BdP12, CGW14, CGHK08].  
**Highly** [Sma17].  
**Hilbert** [ACMS10, AR15, AB17, AY84, BR04, DKM10, Dra10, Dra11, Dra16, Dra18a, JS15, KS16, MR10, SA10, Son14, Tau73a].  
**Hilbert-modules** [AB17].  
**Hilbertian** [MSS13].  
**Hille** [JRMFMASS16, MFPSS12].  
**Historical** [Pri78, TT78].  
**History** [HPS83].  
**Hitting** [Che18].  
**Hochschild** [Hou17].  
**Höder** [AO97].  
**Höder-type** [AO97].  
**Hodge** [Sam78].  
**Hoffman** [MV91].  
**Hölder** [Dra18a, LPW17, Mer81, Mer78a].  
**Hollow** [FJ15].  
**Holomorphic** [MRS10].  
**Hom** [SX15].  
**Homeomorphisms** [Pan15].  
**Homogeneous** [BB17a, BMP10, BPR12, Fri97, HSX16, LT07, MO93, ME18, Soa08, XSL15].  
**Homomorphisms** [DK16, Tho92c, AAB15, An18, Ben05, BM16, BMGMC15, EPR16a, EPR16b, L12a, ML12, ROM88].  
**Hook** [CW81, Pat95, Hey88, JP87, Mer83b, Rem90, TOM88].  
**Hopf** [Ad15, Egg95, FJK14, Lla96, MZ04].  
**Hori** [Ve83a].  
**Horn** [Mas10].  
**Hua** [XXZ11, And80a, LW11b].  
**Huang** [Uh13].  
**Hull** [And04, Gil12, KSBM16, LT89a, Poo94, Tho75a, TI77].  
**Hulls** [AS11a, SA07, Tho75b, TT18].  
**Hungary** [BL80].  
**Hurwitz** [Ang00, AYC93, CCL10, Kri87].  
**Hybrid** [LLyP15].  
**Hyper** [BT17].  
**Hyper-ideals** [BT17].  
**Hyperbolic** [HK10, LL17].  
**Hyperbolicity** [BV16a].  
**Hypercomplex** [Lei93c].  
**Hypercubic** [GR10].  
**Hypercyclic** [Shk12].  
**Hyperdeterminant** [Bre12a].  
**Hyperdeterminants** [Luq08, WHL16, Sun15].  
**Hypergeneralized** [TCI13].  
**Hypergeometric** [Sal14].  
**Hypergraph** [SQR15, XQ16a].  
**Hypergraphs** [BG79, Rod02, Rod03, BS08, LCC17, LGL17, SSW15].  
**Hypergroups** [BS91, Bha93].  
**Hypermatrices** [Ilm16].  
**Hypermatrix** [CD15].  
**Hypernormal** [Mal94].  
**Hypersurfaces** [Pat84].  
**Hypertournament** [Kir91].  
**Hypertournaments** [KKP13].  
**Hyponormal** [CH10, KY17, Ral17].  
**Hypotheses** [Red02].
Inequality

[Pat81, AB78, AHJ87, Aud15, BM15a, BM15b, Bak16, Bab88, Bap91, Dia79, Dra11, Dra13a, Dra17a, Dru14, ES76a, Fri75, FL16b, GJMW84, Gro85, GM87a, Gun15, Ha88, Hey92, HKO16, HM95, JRMFMAS16, Joh77a, JN90b, Joh90, JZ95, KS14b, Kua18, Li87b, LLyP15, LW12, LZ17b, LPW17, Lon83, Lon97, Mar76, MS88, MV91, Mer94, Mia93a, MP94, MP95, MP96, MR10, MFPS12, NS18, Oku91, PSA14, Pat96, Pat09, Pep11, Rea96, Tho89, Tik98, Wan79, Win85, yY11, YqS16, Zha01b, ZZZ12].

Inertia

[GS06, GA18a, JR84, LRT91, AL78, BS97, CM92, JP86, Loe92, MF92].

Inertially preserving [BS97].

Inertially [GS01].

Inertias [KMOV07, JL91, KovDD09, TL12].

Infimum [Dji16].

Infinitesimal [GS01].

Infinite [DS02b, G02, KK75, KMS02, WC16, AELPM18, All14, Bar07, BB14, BH15a, Cas91, CP10, Go16, LF15, Liv94, Nag17, Ng14, Pop14, Rai87, RD12, Siv06a, Siv06b, Slo13a, Slo14b, Slo15a, Slo16b, Slo17, Sol06, WC12].

Infinite-dimensional [KK75, AELPM18, Bar07, BB14, LF15, Liv94, WC12].

Infinite [DM87, HM78, MZ04].

Inflations [GW98a]. influence [Sch77].

Influences [CP16]. Information

[JS91, BL80, DHKSH08, FHL913, Fur11, ShDHG08]. Inheritance

[BS17e, BS18a, Pan17]. Inner [BLdPS04, Tan16, FD14, LMR94b, LMMR01a, LMMR01b, Pat08, Tan13b, Uhl82]. Input [Har94]. integer

[BT07, GRMA13, LS0vdD95]. integers [New85a]. Integral

[Lee18, LYZW12, Yiz02, Yiz03, BH78, BSG12, CL17a, GHL16, HK79, HK80, Hsi78, HHW15, Kir04, KADM10, Kri87, Mah82, 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 [WOY06]. Internal [BC83]. Interpolated [SYK15, YSK15].

Interpolating [AkK17, CJ12, KK16]. Interpolation

[JvdD88, LP11, AG15, BCR91, CH12, DWL13, ZZ00]. interpretation [ER90, RS18]. Intersection

[JNBR93, AN14, BCS14, HS83c, Tho75b]. interval


[AL94, Row95, KP14b, Pie92b, Tra84]. inv [Gar79]. Invariance [MF77, SSSZ93, BK83, Beq78, Gro96, Hem93, LT88a, LFY16, Man91, Min76, XQ15].

Invariant [BR04, De 90, Dom14, Ger74, MZO4, NT86, Pat77, Sil98, Tho78a, AE10, Aze99, Bae84, BG86, Ben78, CW81, CDJ13, CLW15, CLR81, Fri90a, Heo16, HS87, HJ87, HMN01, JS94, JP15b, JL88, JN92, KMOE01, LT87, LT89a, LT89b, LT90b, LT90c, Li91, LT92c, LT93, LLW07, MKS84b, Mar90, McD92a, MMMR09, NS85, Pok87, RRR93, Rod81, Sel81, Sil88a, Sil88b, SS96,
Invariants

[AM, B97, Mau78, PW78, ARH15, AMZ13, BZ99, Bed10, Bed11, BX11, BCdHP10, BB17c, CNW18, CN15, Dok09, Dom00, Dre93, Fog73, GA85, GH99, GL97, KP92, Lop11a, Lop11b, Lop18, MZ17, Sch75, Sch78, Tho88, Wat83].

Inventory

[Mer83a].

Inverse

[BS11, CLX03, HS16, LLS14, MN98, Min82a, Mir18, ZHZ11, AHHK92, BT10, Bap97, BCN05, BAN12, BLZ11, BB17b, BS17e, Bou18, BT98, BZ10, BZ11, BSZW13, CC17a, Cam80, Cam83, Che95a, Cro18, CICX09, CIN15, Dec74, DD10, DCW10, DS16, ER90, FS18, FD09, Gar95, Gro99, HM78, HXL16, HPV84, HPV88, JL93, KMRS89, KW11, KR07, Kyr11, LP16, LHW11, LYZW12, LPH17, LL78, MP16a, MZ15, MMG15, MS15a, Mos15, MAM15, PJ90, PM14, PH97, Re96, Smi05, SPM14, SPK15, SK17, SFBW16, Tia05a, WL15, WMR16, We98, mWYD11, XQ16b, Xu93, YZ14, YW05, YW09, ZFX17, ZBW12, ZCP16, ZPCZ16, ZCP17, vR11, LLS16].

Inverses

[BP74, GN02, MR15, Rao81, Zha94b, BI95, BHK78, BM17a, BT06, BL13, BGV11, BT15, BG2W16, CKN95, Dra13b, Dra17b, Dra18b, HK79, HK80, HM76, HM77, JGK79, KS15, KM14, KCICV18, KR14, Kyr08, LPT13, Li11, LC18, LW11b, LW08, MR13, MP13a, Mja93b, MS12, Nab98, PP16, Rad16, Siv06a, Smi74, Sol14, Sta15a, SKP18, SPS15, Tia01, TC04, TS05, TT06, Tia10, Tia18, VM07, WC15, XCC99, XQ13, YLS10, Zar01, ZX10].

Inversion

[JT91, FZ11, JS91, Jon78, Tis93, Wer86].

Invertibility

[BLR12, Den14, FSV11, KR02, KR03, SR17, Wat83, Zel75, Aue95, Ave98, BLZ10, Bou13a, BMGMC15, CQ15, CIP18, Cve18, DW12a, DD12, HC14, LD17, MS09, PA10, SA17, TCI13, ZZ16, ZCCW12].

Invertible

[BSV12, Gur97, GL97, BSU03, Che07, Fra13, Gow80, HLM15, ILW16, LWB11b, Siv06a, Siv06b, Tan13a, XPY16, ZZC17].

Inverting

[AM15].

Involutions

[Slo13b, BL11, BFJ12, Fie95].

Involutive

[LWB11a].

irrational

[DH91].

Irreducibility

[MM05, Mer75, Mur89].

Irreducible

[GT14, Lla96, Min74b, Ab09, BCS14, Bru79a, Coh88, DF87, Els78, Fon89, Fri12, Ho04, Hua90, Hun83, Hun86, JPL15, KSMB16, Kra05, LZ09, Lii95, Min74a, Pat93, Pul75, Roh04, SWB16, TB92, WW15, YSY17].

Irregular

[SHS17].

Isolated

[BS08, SRW07].

Isometric

[MP18].

Isometries

[DLR91, KL95, LS02, MN12, Dok90, GWW16, HSS3b, HFS15, LT88d, Mol15].

isometry

[CP16].

Isomorph

[Wa74].

Isomorphism

[ARH15, Oge94, Cye95, Dix79, RH11b].

Isomorphisms

[BDW12, BD12, BDW16, BFK18, DPV13, IT16, LWXF15, Pan15, Wan16d, XWF15].

isospectral

[Mer97].

Issue

[KL17, LT09].

Itô

[AM15].

Iteration

[Fau83, CH06, LZ16, TT15].

iterations

[Mis17].

Iterative

[CC17a, DH86, AAB17, ALP94, BS17d, Gib89].

Itô

[HZG14].

IV

[Chu90].
layered [Mur89]. LCM [HINS10, Tan10, TLL11, XL11, Zha14b]. LDU [Smi83]. leading [Hol84]. leaping [Kom10]. Least [YL11, YLW15, YZL17, AAB17, Ano16b, BPS16, Din98, Fan05, GW17, JS84, Joh84, KS82, LLW07, LW08, LW10, Pen15, Wan15, Wan17b, XQZ13, XQ16b, Zhu15]. least-squares [AAB17]. leave [Ben78, Sin73]. leaving [LT93]. Lefschetz [Sam78]. Left [CQH15, EKO14, HBM15, Kre16, Tho86a, DS16, Dok73, GMZ17, LCL14, LG17, MVP814, MRD15]. Left-star [Kre16, MRD15]. left-symmetric [LGB17]. Legacy [Mer17]. Leibniz [ARH15, AM15, BCS14, CCGO11, CLOK13, GLOT13, KPPV18, KLO14, Mil15, RH11a, RH11b]. lemma [CGMR11, Bar07, Bar12]. length [BP90, CCGO11, CW18, Ell93, Wes80]. Leonard [Ahn11, CGH15, HZG14, KHG15, KC16, WH17]. Leslie [Har96]. less [Bot87, Lim90a, Sin95, dB16]. Letter [Bha91, Cha93b, Ram02, Roh13, Sch15]. letters [Min74c]. level [AHK92, HS89, HS91, Lew90]. Levitzki [Ari16]. Lie [FS15]. like [BD14, KM17, Tan12, Zha97]. Limit [Ger86, Cam78, Har84b, Kat75, LYZ12, Rei83, Tos79]. Limiting [Geh15]. Lindström [LN80]. Line [GW08, HJ77, HT91b, WBZ14, ZB13]. Lineability [BMP10]. linéaires [Del94]. Linear [AS17, ASZ02, Bea78, BP89, BP90, BP92, BL93a, BL01, BBS09, Bot79, Bot87, CL83, CL92, CL95, CLN13, CLMR90, Coo96, DGJ+16, FHLS13, FHL+14, Hof75, Hua96, HW75, HKS94, JS94, JS84, Jam81, JP86, JLL88, JLR+92, KP92, LL90, LL16a, Lau81, Lev74, Lis87c, LT88c, LT88b, LT90b, LT90a, LT90c, LT93, LM93, LP93, LMR94b, LSS01, LZ01, LM03, LS04, Lim76a, Lim79a, Lim82, Lim90a, Lim90b, Lim97, Lim01, LoC03a, LoC93b, Lor14, Luk74, MPI17, MF79, MC80, MS09, Min77, Mol09, Prz02, RK94, Sin82a, SA14, SB03, Wat82, Wes74, Whi74, Zha05, ZXF15,ZW14, Abd09, AC13, Ahn15, AFM13, Ami11, Anq02g, AW83, BB06, Bar07, BS16, BS17c, BGdH92, BT08b, BLZ10, BR10, Ben78, BCM18, Bou18, BZZ10, BMGM16, BF96, BSS12, Cam83, CW90, CL91]. linear [CS10, CKLP13, Che93b, CW12, CWSZ17, CL05, CKL16, Chu84b, CPT15, CF15, DM17, DPP17, DH86, Del94, Den14, Din00, Doo16, Dra18a, Dre93, EL09, EO15, FK91, FW73, For87, Fos05b, Fow80, FH15a, GP06, GL85, Gib89, Gur98, HK16a, Had83, HR85, Hla17, HH16, Hua16, Hum83, Hum86,
Loe93b, MW74a, McD92a, PR12, Pet97, Tag12, Wan17a, Wit11, ZL17.

Maps [BDS13, BM15c, CGY13, CL17b, Che03b, DŠ04, Dol04, Dol07, EM15, FKKS11, GM18, LJ11, Slo14b, TH14, WJ16, Zha04b, ZHH09, ZWW10, AEV12, AS17, AG15, AKS18, BHD10, BHD11, BBBS09, BH13, Bot87, Bre12b, CL80, CL85, CW11b, CW12, Che14a, CW16, CWSZ17, Cho10, CKL16, Cos14, DM17, DHB07, DW12b, Fos05b, FHL+14, Fra13, Fra17, FH15a, GP06, HK16a, HR85, Heo16, Hil07a, Hil07b, Hil11, HH16, Hua10, JŠ94, JQ15, JP86, JLR92, LP11, LF16, Liu15, Mar13, MA75, MR12, MS09, MO13, Mol09, MN12, Nag17, Nie07, OP13, Oge94, OK07, dSP16b, PW78, Pie79, Poo17, QH11, QH17, Rai87, RJ04, RS06, RS08a, Rue89, Slo13a, Slo16a, SDL10, SL17, TB92, TXC08, WZC11, WL13, Wat83, XCC99, XPY16, XL17, YH05, ZCZ12, ZX16, Zha16a, ZXF15, ZW14]. Marcus [And80a, AYT83, BD96, Cha89, Cha83a, For79c, GLS13, Hu87, Hu89, KL17, Kri87, Mal89, Mer17, ST80, Tam86, Tam91, Wan77].

Markham [Kua18]. Markov [AS11b, Gue17, Gur98, Kir14, ME18, Sie99]. Markov [AS11b, Gue17, Gur98, Kir14, ME18, Sie99].


Matrices [AY74, BKL02, BL93b, BS04, BT98, Bru79a, Bru82, BF75, CLX03, CA03, CD03, Cra09, De 82a, Dom95, EMS02, Gib92, GN02, Gra87, GK77, HS83a, JR93a, Joh81a, JL90, JL93, JT95, JT04, JP07, Kap77, KMS02, Lev74, LP02, MS74, Min74d, Nab98, New80b, Peň02, RR04, Rao4, Ric81, Ric85, Ric87a, Rob77a, ST73, Sin76b, SHC02, SJ02, SK03, SB03, Stu89, Tau74, Zab89, Zab90, Zha04b, D075, AC15, ACh77, AS95, AG16, AAK16, AAB17, AAT16, AAL14, AJL18, AJL12b, AW07, Alp95, AST05, Ami80, AM13, AEdF13a, AEdF13b, AO78, AB78, And80b, AD17, Ang00, AG96, Arm17, Aue95, Aue98, ALP94, Ace99, BS15a, BHC16, BLX18, BJS98, BB06, BT08a, BT10, BG66, Bal77, Bal79c, BL83, BDK09, BS91, BPS00]. matrices [BCN05, BK17, BZ90, BZ99, Bar74, Bar80, BG83, BOvdD91, BH90, BT90, BH78, Bea78, Bea85, BL93a, BL97, BL01, BS16, BS17b, BS17c, BPD88, BL91, BL92, PB08h, BDS13, Ben74, BH74, BB75, BT06, BLZ10, BL13, BSÖ13, BBM15, Ben05, Ben78, BGV11, Ber17, Ber12, BB15b, BP74, BS97, BS98, BX07, BDk+05, Ber05, BZ89, dAB17, BD85, BH15a, BS17c, BS212, Bo01, BR01, Bot94, Bot96, BB96, BB17c, Bou13a, Boz98a, Boz98b, Boz99, BT15, Bra86, BC17, BD13a, BCKP10, Bru85, BS08, BD13b, BrU79b, BK87, BZ22, BSZ13, BSZW13, BGZW16, BM16, Bur95, But10b, CC17a, CM92, Cal97, Cal99, CP81, CCS16, CGY13, CK17, CP07, CdM15, CL92, CCS98, Cha83b, Cha84a, Cha88, CGW14, Che92, CKN95, Che07, CW10, CW11a]. matrices [CZY12, CP16, CW16, CTW15, CT96, CL14, Che17, CL05, CNP05, CNP06, CN08, CLNT17, CLN13, CKL16, CL01, CKP09, Coe96, CR77, Cos14, Cra91, CL74, CGH14, CPLH17, CIP18,CVE18, DPP17, De 90, De 75, Dec95, DTS14, DD10, DCIW10, DHH95, Din15a, Do 96, Dod13, DL92, Dok93, Dok17, Dol07, Dom14, DGG1+16, DJL94, Dr15, Duf97, ERS12, ELG88, EL90, Els78,
matrices [GPM98, GA18a, Gar85, GWW15, Geh15, GJR97, GKS01, Ger86, GPM14, GV95, Gib76, GZ99, Gil14, Gil17, GKL82, GZ76, GTZ75, GoI87, GoI92, GH98, GR10, GR93c, Gro97, Gro99, GLP92, GP96, Gro17, GHT11, GHK16, GHL16, Gur79, Gur92, Gy178, Ha88, HC14, HK79, Hal91, HJP17, HZ11, Har87, Har78b, HS83b, HS83c, HMA13, HINS10, Hau12, HDJT97, HWZ18, HR5, Her83, HS88, HS93b, HNS99, HS12, Hill17, HKO16, Hoi85, HHS9, Hon99, HJ87, HZ12, HM76, HM77, HM78, Hsi78, HLZ05, HH14, Hua01, HW06, Hua08, Hua10, HLZ11, HK17, Hwa85, Hwa91, HK92, HS93c, HKS94, HM95, HKS95, Ibb00, IS15, IS16, Ito16, JGK79, JH15, JH82, JH37b, JH16b, JSY16, JIS06, FS89, Gai77]. matrices [JP87, JSE90, JKS94, JWP98, JS99, JR09, JN14b, JTO00, KS16, Kan87, KS12, KS15, KS14a, KMS16, KLZ10, KP14a, KIm97, KS09, KIm13, KIm91, KIr91, KP92, KS93, Kir93, Kir94, Kir95, Kir11, KM11, KS76, KS82, Kob06, KNX93, KHO5, KES97, Koz17, KS83, KS84, KM98, KS17b, Kuz05, LR17, Laf78, Laf83, LL16a, Lai81, Lee91, Lee98, Lee99b, Lee93, Lew77, Lew97, Li86, Li87a, Li87c, LT88c, LT88d, LST89, LT90b, LT90a, LT93, LM93, Li95, LSov89, LEH96, Li98, LSS01, LP08, LZ13, LL14a, LLL15, fLLyP15, LZ16, LLGL16, LML17, LM95, LLL09, LLW16, Lim79a, LT14, Lim15, LT12b, LW12, LZ17a, LMMR10a, LMMR10b, Lit17, Liu92, LB99, LWY11, JWBL11a, JWBL11b, LL78, Loe87, Loe91, Lon80, Lon81, Lon83, LSZ86, LM99, Lon90, LR89, Lop11b, Lop18, M11, MVPS14, Mag83]. matrices [MN80, Mah82, MM90, Mal91, Mal94, MRT16, Man92, MHH96, MZ04, MS79, MK84a, MS95, MR13, MR15, MSZ04, MR07, Mas10, MH12, MP90, McC85, McD92b, McF79b, MS10b, Mee80, MMRR09, MMRR16, Meh84, MO93, M112, MV91, Mer94, Mer98b, Mes90, Mes13, Mia93a, Min74b, Min74a, Min75, Min77, Min82a, Min84, Mir92, Mir98, MS12, Mis17, MS10c, MGG15, Moh16b, Moh15, MP16b, MS98, Mol90, Mol15, Moo76, Mou04, Mou13, MAM15, MA15c, Mur89, ND05, ND13, NS99, NeU79, NP80, NeU84, NST91, NS92, NS93, NeU74, NeU75, NT86, Nie14, Nie10, NoL15, Non73, NP91, NUN93, OP13, OML14, OK07, Pat92, dSP12, dSP16a, dSP17, PUO15, Pet09, Pet00, Phu80, Pit87, Piz87, Pok87, PT87, Pop14, Pul75, QK92, RRR93, Rau18, Rea96, RW96, RR95]. matrices [Rho87, Rho90, RS74, Ric78, Ric87b, RD12, Rob75, Rod97, Rob91b, Rys73, ST94, SS79, SUT77, Šem97, Sen83, SM94, SMBB15, Sha91, SG96, Sh15b, Sil88a, Sil88c, Sil88b, Sil90, Sil93, Sil95, Sil98, Sil99, SP87, Sin90, Sav01, Sin73, Sin76a, Sin77, Sin90, Sin82a, Sin82b, Sln84a, Sln93, Sla17, Slo13a, Slo14b, Slo15b, Slo15a, Slo16a, Slo16b, Sni05, Sni76, Sn194, SH98, ST91, STZ94, Sol66, Sol14, Sou83, Sou93, Sou86, Sou92, Sta15a, Sul08, SH92, SWZB15, SK15a, SK15b, SvW14, TD14, Tal17, Tam86, Tam94, TT12, Tan10, Tan93, T147, T148]. matrices [GPM98, GA18a, Gar85, GWW15, Geh15, GJR97, GKS01, Ger86, GPM14, GV95, Gib76, GZ99, Gil14, Gil17, GKL82, GZ76, GTZ75, GoI87, GoI92, GH98, GR10, GR93c, Gro97, Gro99, GLP92, GP96, Gro17, GHT11, GHK16, GHL16, Gur79, Gur92, Gy178, Ha88, HC14, HK79, Hal91, HJP17, HZ11, Har87, Har78b, HS83b, HS83c, HMA13, HINS10, Hau12, HDJT97, HWZ18, HR5, Her83, HS88, HS93b, HNS99, HS12, Hill17, HKO16, Hoi85, HHS9, Hon99, HJ87, HZ12, HM76, HM77, HM78, Hsi78, HLZ05, HH14, Hua01, HW06, Hua08, Hua10, HLZ11, HK17, Hwa85, Hwa91, HK92, HS93c, HKS94, HM95, HKS95, Ibb00, IS15, IS16, Ito16, JGK79, JHS90, JS96, JR93b, JN13, JTW17, JK10, Joh73, Joh74a, Joh74b, Joh77b, Joh81b, Joh82b, JR84, JP86]. matrices [JP87, JSE90, JKS94, JWP98, JS99, JR09, JN14b, JTO00, KS16, Kan87, KS12, KS15, KS14a, KMS16, KLZ10, KP14a, KIm97, KS09, KIm13, KIm91, KIr91, KP92, KS93, Kir93, Kir94, Kir95, Kir11, KM11, KS76, KS82, Kob06, KNX93, KHO5, KES97, Koz17, KS83, KS84, KM98, KS17b, Kuz05, LR17, Laf78, Laf83, LL16a, Lai81, Lee91, Lee98, Lee99b, Lee93, Lew77, Lew97, Li86, Li87a, Li87c, LT88c, LT88d, LST89, LT90b, LT90a, LT93, LM93, Li95, LSov89, LEH96, Li98, LSS01, LP08, LZ13, LL14a, LLL15, fLLyP15, LZ16, LLGL16, LML17, LM95, LLL09, LLW16, Lim79a, LT14, Lim15, LT12b, LW12, LZ17a, LMMR10a, LMMR10b, Lit17, Liu92, LB99, LWY11, JWBL11a, JWBL11b, LL78, Loe87, Loe91, Lon80, Lon81, Lon83, LSZ86, LM99, Lon90, LR89, Lop11b, Lop18, MM11, MVPS14, Mag83].
TLL11, Tan13a, Tan14, TLC16, TG09, Tau81, Tho74, Tho75a, Tho75b, Tho86a, Tho86c, Tho87a, Tho88, Tia01, TS05, Tia05a, Tia05b, TT06, Tia11a, Tia11c, TL12, TJ16, Tia18, Til77, Til98, Tis93, Ton87, Tra89, Tra90.

matrices [Tre85, Tre86, Tre87, TGW14, TMOvdD93, U¨O˝O15, UP ¨O16, Uhl79, Uhl14, Vas87, VM07, Wad00, Wal73, Wal75b, Wal86, Wan76, Wan79, Wan80, WZ95, WOY06, WZC11, WYM11, WZL13, IWPw14, IWIW15, Wan16a, WC16, Wan17a, WL18a, Wan05, Wat84b, Wat85a, Wat85b, Wat77, Wat82, Web83, Wes87, Wim85, Wim88, Woe93, WM84, Wu09, CCC99, XQZ13, Xu93, XX21, XL11, Xu15, XPY16, XL17, YLS10, You80, YBCW96, Yu96, YW16, ZZZ16, Zel85, Zel75, Zha00, Zha01a, Zha89, ZS05, Zha05, Zha14a, ZZZ16, ZFW17, ZWW10, ZHZ11, Zha14b, ZXF15, Zho16, ZBW12, ZW14, Zim89, Zou12, cc85, dF13, dPN81, vBW95, vR11, KNX95].

matrices-nonsingularity [ES98b]. Matricial [Far93a, MRS10, CH12].

matrics [–DDJ76, HK80, NU94]. Matrix [AMP02, AP04, Af73, AP74, And04, jAS15, AW13, AM90, BD94, Bom02, BC94, Che93a, Dat80, Der16, DS02a, DS04, EMS02, Fan92, FlA74a, Foa79, Gal03, Gil12, GMR81, Har95, JT03, Leh91, LT92d, LM96, LP03, Mir81, OW02, Pat03a, PT02, PY82, Ram97, Sin81a, Tho78, Tia02, Tia03, Tur02, Wei98, Zha04b, Zha04a, AFV100, Adh13, AS11a, AM13, AN14, Ake83, AAB15, AdFK15, AG15, Ano79b, Ano79c, Ay95, Aud15, BK83, Bak84, BB06, BCR91, BJ75, BY76, Bap97, BGK99, BGK00, BKP01, BS11, BR14, BWF83, Bas17, BC82, Be83a, Be83b, Be83c, BC85, BD88, BS17d, BGdH92, Be83, Ben90, Bén11, BT08b, BT07, Bot94, Bou13b, Bou14a, Bou14b, BHK10, Bóz97, Bra86, BGGS17, BC91, BF15, BZZ10, Bun91, BSS12, Caf13, Cal95a, Cam78].

matrix [CKP16, CL80, C97, Cav10, Che92, CH12, CLW15, CS18, Che91, CCL10, CT09, CNP05, CN07, CN14, CM85, Cho10, Coh88, Con90, CC98, CICX09, CIP17, DPvW13, DSH6, DW92, Dec74, DTS15, DH11, Der18, Deu80, DHT94, DS09, Dok73, Dok90, Dok91, DB14b, Dom00, DJS9b, DWL13, DWL14, EM95, EF98, ER90, EOvdD09a, EGT16, EOvdD09b, EB17, FZ11, FTZ08, FHW16, Fei79, Fie81, FLR85, FSvW11, FKKS11, Fri97, FH15b, FSY16, GAGM18, GHL10, Gil93, GKL82, GLR82, GR582, G089, Gon17, GB90, Gow80, Gra80, GHV99, Gre99, GP94, Gro96, GJM86, GTM14, GT79, Gus81, GHT16, Ha89, HK16a, HL09, HZ11, Har81a, Har94, Har96, HP90a, HP90b, HKT15, Hav88, HB173, HW13, HW14, HW15, HXS1, HXS8, HS89, HS91, Hia94, HS87, HMM91, HBP18].

matrices [HS16, How83, HT10, HXL16, HLPW17, HM18, HWSH13, Hub81, HPV84, HPV88, Ikr15a, IH11, Iov15, INO15, JP15a, JKD16, Joh77a, JKS79, JOvdD84, JOvdD85, JD99, JS08, KMRS89, KS16, KM85, Kar83, Kat75, KM17, KFR17, KL12, KOvD09, KS07, KLKP17, Kolv77, Kra05, KMS07, KML95, KLZ96, KK16, Kur04, Kyr08, La80, Lao84, LRR87, Lás91, LZ90, Lee15, Lei93a, LRT91, LR96, Lew96, Li84, LT88a, LT91, LP93, LP00, LLS10, LZ11b, fLLyP15, fLLL+17, LPWX10, LWXF15, LW11b, LQ95, Lip96, Lip98, Lip87, LW08, LT10, LTT11, Lix94, LM00, Lop11a, MJ07, MS01a, MDW11, MW16, Mag83, Mai11, MS83, MSO83, MRT14, MKS84b, Mar89, MR97, 34
MP98, MS95, Mat90, Mat92, MP87b, McD92a, MS81, Mel13b, Mel18, MK16, Mer74, Mer79a, Mer82, Mer83a, Mer89, MP94, MP95. matrix
[Moos95, NNT95, Ned98, Neu83, NP80, Neu81, NP73, New76b, New78, Nof15, NT94, Obl12, OvdD77, Pal79, Pat82, Pat03b, Paz84, dSP11, Pea84, Pen15, PW78, PM81, PM85, Pre85, PV00, PH97, QD85, RS07, RS18, RR91, RS10, RP04, Roh06, Rout98, Rys75, Sal79, Sal12, Sal14, SA07, SQM99, SMM14, Sch77, ST80, SLUG04, Shi15a, ySpW17, Siv06a, Siv06b, Slo14a, Slo17, ST96, ST00, SBMP16, Sta15a, Ste94a, Ste94b, SX12, TD06, TZ06, TZ17, Tia73a, Tia81, TB01, Tho87b, Tho89, Tho92b, Tia00, TC04, TS05, Tia10, Tia11b, Tia17, Tia98, TT18, Tos79, Tra84, TSB82, Uhl13, Vas86, Vrb86, Wal11, Wal15a, WZ97, WHX08, WH12, WZH13a, WZH13b, War83, Wal90, Wea83, WW12, zY11, YSY17, YqS16, YL11, YLW15, YW16, YZL17, bPFZH08, Zha04c, ZCZ12, Zha15a].

matrix
[Zha16b, ZK10, ZWZ10, ZW14, ZWM17a, ZWM17b, dB14a, dOMD77, dBS00].


Matrizen [SU77]. matroid [Dia90a, Kas85, Mum86a, Mum86b, Mum86c].


Minimization [HS93c, SPM14, FW13, fLLyP15, Pap13]. Minimizing [FLZ07, FS86]. Minimum [Bur95, Cha84a, Cha88, Hwa85, JW91, KS82, LSOvdD95, Min84, SHC02, SJ02, Tia02, BHH+11, DH91, GZY18, Hou01, LLZ13, LGA+13, LT13, LLF18, MS16a, NS15, Zha05, Zho16, dF13].

Minkowski [Mer78a, Mia93a]. Minor [IW95, Wil87]. Minors [FLZ07, FS86]. Minimizer [Bur95, Cha84a, Cha88, Hwa85, JW91, KS82, LSOvdD95, Min84, SHC02, SJ02, Tia02, BHH+11, DH91, GZY18, Hou01, LLZ13, LGA+13, LT13, LLF18, MS16a, NS15, Zha05, Zho16, dF13].

Miranda [Li84]. Mirman [GS77]. Mirrors [BI95, BF75, For79b, Hol84, HO17, INO15, JOvdD84, Mia93b, RS10, San14, Sin77]. Minus [BMGMC16, KMS16, NS92, NS93].

Mn [Leg06]. mod [HH14, Cam14, JS08, JSW09, LW08, Rad16, RSPT17, ZX10]. multiples [GKLRS2, Tho86a]. Multiplication [Bre12b, De 75, MO94, Wat85a]. multiplications [Bun94, Tur16].

Multiplicative [BD12, BC82, Che03b, Ger74, LR04, QZ16, AGAG96, Est80, Hil17, MID17, MZ15, Poo17, QH11, YZ14, ZFSX17]. Multiplicativity [New94, Pro95]. multiplicities [Da 05, Uhl99]. multiplicity

[FW13, Laf78]. **Nondifferentiable** [Beb86]. **nonnegative** [EM73]. **Nong** [Uhl13]. **nonincreasing** [CL01, Loe93a, Loe93b]. **nonintersecting** [AST05].

**Nonlinear**

[BBEL18, BH13, CW11b, CX12, CW12, CW16, FZ17, HZXL15, JLLZ12, Wan17a, XW12, Zha16a, BH16, DWL14, HB18, HM18, MK16, SLUG04].

**Nonnegative** [Bak84, BN88, Che92, DS16, JGK79, JT03, Lew77, Shi15a, SB03, Zha04c, AAJ12a, AJL18, AAJ12b, BS92, BS17c, BP74, BC94, BSS12, CP81, Cro18, DJ98, DJK08, Els78, EJD88, FW07, FJ15, FL88, Gar85, HJP17, Har94, Hav88, HK92, JS84, JG90, Joh75a, JP17, JMP17, JMS15, KSBM16, KX15, KNX95, LEH96, LZ17a, LL78, Mel13b, MV91, MS12, NST91, Rea96, Rod81, Roh06, Smi05, Sou3, Suz16, SVM15, VM07, Win85, Xu93, YSY17, vBW95]. **Nonnegative-definite** [Zha04c].

**Nonnegatively** [LS10]. **nonnegativity** [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, BN06, FJ09, HT10, HXL16, IS15, JT95].

**Nonsingularity** [BSO13, ES98b, LWB11b]. **nonsymmetric** [BJ94, BT07, BSO17]. **Nonuniform** [BV16b, BV16a]. **Nonzero** [CL86a, CL86b, DF90, CM07, Cro18, Fri12, KMOV07, MY12]. **Nörlund** [CL10, TD14].

**Norm**

[Du10, Fla74b, FSY16, Joh14, Neu74, Sed04, SA10, AE10, AA12, BJZ13, Bou06, CL17a, DM87, FH73, Gar75a, Gil93, Gil17, Han17, Hia94, HM78, Joh77a, JLL88, JN90a, JN92, KL95, LTT84, Lon83, LSZ86, MO94, Oku91, Oku93, Pat09, Pre85, Roh00, ST73, YSK15, YL11, ZFSX17, Zou12]. **Normal** [AP04, BD94, Far94, GW04, JMS15, KL15, LMMR01a, New94, Arm17, AY95, BT08a, BK17, BD88, Cha96, CN05, Der83, Epk89b, Epk89a, FX12, GR91, GR93b, GRMA13, Hua90, IH11, KLS08, Kum99, Li98, LMMR01b, MTR16, MV75, McC89, MZ91, NTU93, Pro95, QK92, Rad12, ST94, SPK15, Woe97, Xu93]. **normal-preserving** [Kun99]. **Normality** [Klr15a, Kit91a, LST99, Man92, WZ95]. **Normalized** [DP17, JT04, But10b, CL17c, GLS16, Hun83, JP87, LLF08]. **Normalizers** [Luk74]. **normed** [KT83, Ng14, Pan15, Pas15]. **Norms** [BKL02, HWL92, LT89b, OW02, So90, AGAG96, AG96, Bar76, Boz98a, Boz98b, Boz99, CW11a, CM15, Gol87, Gro17, Hem93, HJ87, HMMR91, JL88, JN00, LT87, LT89a, LT90b, LT90c, Li91, LT92c, LLW07, LPT11, MS83, MS83, MKS84b, MC89, Mar92, MM07, Mer78a, Mer81, OvdD77, Que08, Rh04, RSTP17, SAV01, So06, TD14, Tal17, Wan17b, ZHH09]. **notation** [Car06]. **Note** [Ano73, Ano82d, Ano83k, Ano84d, DSD83, DS02a, HHC12, Lau81, IIPW16, Mar82a, Mir81, Sam78, Tam85, ABJ16, Ano82e, Ano83l, ACMS10, AOTR11, Bab91, BOvdD91, Bar12, Ben90, BZ00, dAB17, BH15a, But10b, Cha18, Cha83a, Cha84b, CTW15, CKL16, Da05, Da88, Duf97, Els78, For79b, Fri12, Gol89, GMW86, Gum15, Gur79, Gur82, Har88a, Har88b, HWY17, Hug90, JS96, Jon92, KP11, KT95, KJ13, KKR12, LHP75, 38
LN80, Li84, LP00, LPWX10, Lim79b, Lim15, LGB17, LL78, Mal89, Mal92, MS89, MR13, MM90, Min82b, MAM15, New78, OvdD77, dSP17, Pri78, Pul75, RR95, San14, SP87, TXC08, TT78, Til98, Uhl82, Vin06, WMR16, Wan18, nWyD11, Wei93, WL16c, XQ16b, YZ14, Zha16b, vBW95.

Notes [Ami11, Cha83b, Joh75a, Wan16d, Zha89, Mar92, Sim95]. notion [MS12]. notions [Hou09]. Nowhere [AGM13]. Nowhere-zero [AGM13]. NP [Roh00]. NP-hard [Roh00]. NSSD [FS18]. null [BT13, Bea85, CLOK13, KLO14]. null-filliform [CLOK13, KLO14]. nullity [FDD14, MW15, zSqSZ16, WL18b]. nullspace [BC94]. Nullspaces [TMOvdD93]. Number [NW02, AEoF13a, AEoF13b, AYC93, BC05, BS16, Ben74, BT15, Cha96, Dat80, DH16, DdF15, Ekk89a, FS14, FLZ07, Kir00, KK90, KS17a, LT12a, LC14, LZZ17, LL15, MAu78, MP13b, Ota13, Pat83, PGLM00, Rem82, RW84, SYZL17, SS96, SIM15, SL18b, ZZ15].

numbers [EB17, FW07, Fer09, Haw05, Hou09, HLZ05, LL17, Ost74, TB01, Wu09]. Numerical [AMP02, BDK09, BB15a, BD94, Bdp98, BldP94, Ber02, BM17b, BS04, CW17, CN04, CN14, CL00, DTS15, ERS12, Far02, GW98b, GW04, GWW15, Joh75b, LN98, LS02, LS04, LR04, MM07, Sed04, haYs99, AS11a, AAK16, AYT83, AYS4, AY95, AyT84, AYP94, BAL80, BD88, BLD91, BL92, BD96, BdpP12, BDP14, Cha92, Cha93a, CC14, Cha18, CGW14, CL17b, Che94, CL94, CT96, CT09, CL13, Che14b, CL14, Che16, Che17, CM15, Ch98, CN05, CN05, CN06, CN07, CN08, Chi11, CN15, CGL16b, CH10, CGBK10, CKP90, CLMR09, Cro08, Da 94, DHKSH08, DM14, EDKA07, EM15, FT87, Far93a, FNBR96, FHL14, FL16b, GW08, GW12, GWW16, GT75, Gi79, HH16, Hu89, HT91a, HT91b, Hug90, JLL07, JLL88, JSG94, Jon92, JNBR93, JR93c, JR94, KPL09, KP14b, LLS14, LLS16, Lei91].

numerical [Lei92, LT92a, Lei93a, Lei93b, Lei95b, Lei95a, Lei98, LT84, Li87c, LT88a, LT88c, LT88b, LT91, LT92c, LMPR94a, Li94, Li96, Li98, LS01, LZ01, LPS09, LT09, LPT11, LP16, Man87, Man91, Man92, Man75, MF79, MS79, MW80, MS82b, MS85b, MP87a, MS87, MR97, MP98, MM09, MS15b, MS15d, NNT95, Oku93, Poo80b, Poo94, PV00, Rod90, RS08b, SA07, ShDHG08, ST80, STZ94, ST96, Spi00, Sza09, Tam85, yT86, Tam88, Tam94, Tam98, yT00, Tho80, Tho87b, TGH14, Tsi83, Tsi81, WZ16d, Wes75, Woe08, WC12, Yua98, bPZH08, ZHH09, vD96]. Numerous [SG18].

Objects [NW02, LN10]. oblique [BT13, GT98, Gro99]. observations [Egg95, Sm17]. obstructions [Kar90]. occurring [JWP98]. odd [AM13, SSW15]. odd-bipartite [SSW15]. Off [DHS95, WC12, Zab89]. Off-diagonal [DHS95, WC12, Zab89]. Olga [SCh77]. Oliveira [BMD87, GLS13]. One [Bre17, Cha84a, BHD10, BLP08, Ben90, Bén11, dAB17, Bot87, BM16, Cho10, CL01, DH16, Ell95, Esc93, Gur79, KS82, LL16a, Lim90a, LZh15b, MMRR16, Shi15a, So99, SKP18, SH92, WL18a, Wat85b, ZS05]. One-parameter [Bre17]. ones [HLZ05, Liu92, Wan05, Wu09]. only [MO91]. open
operads \cite{Bre17, BSO17}. \textbf{Operator} \cite{Bre14}.\textbf{Operational} \cite{Rom82}. operations \cite{Cir15, Joh11, LZ15a, MN04, Zha14a}. Operator \cite{CW11a, DH03, Far02, Gus94, MŠ02, RS85, Tal17, WZ14, YSK15, AAP82, All14, AXH15, AO97, Anj17, BHC16, Bak16, BDK09, BJS15, BD84, BH16, Bou13a, CL91, CDJ13, Che14a, CL17b, CNUV16, CIP17, CIP18, Cve18, DD10, DCIW10, DV18, DD12, FJS14, FH15a, FJK98, HC14, HS81, HOT15, HQ18, Ikr15a, JJ13, KS14b, KD16, Kit91a, KK13, LM85, LS15, LFY16, MO94, PSA14, PSA16, dSP16b, Rad16, Rai14a, Rai14b, Sed11, SR17, SG18, Son14, TD14, XQ16b, Yu14, ZZ16, ZHH09, ZZZ16, dPN81]. 

operator-eigenvector \cite{Che14a}. operator-entried \cite{dPN81}. Operator-norm \cite{YSK15}. Operators \cite{BLdPS04, Ber02, DS02a, GW17, HT91b, MS02, Sed04, SB03, ADRP14, AFM13, AP17, BHD10, BM15a, BP89, BP90, BP92, BL93a, BDPN14, BLZ11, Boa13, BJZ13, BPR14, BT17, BCM18, Bou18, BM15c, Cam14, CW81, CQH15, CL17a, CN05, CGL+16, CH10, CN15, DH17, Del94, Den14, DM13, Dra10, Dra11, Dra16, Dra18a, Esh17, Fan83, FNB96, Fur08, GT14, GR81, GW12, Gil16, GR91, GR93b, Han17, HBM15, HH16, HKS94, ISCS11, Jac79, JD16, JX13, Jon78, JX13, Kan16, KP92, Kit91b, KL15, KLS08, LLMT05, LS96a, LS96b, Li87c, LT88c, LT88b, LT90b, LT90a, LT90c, LT93, LM93, LP93, LMR94b, LSS01, LZ01, Li11, LPT11, LS17, MSS13, MFT9, MS09, MZ91, MP18, MN12, ME18, OR18, PSS15, Pep10, Pet10, Pop17, RT09, RS85, Rao18, Ras17, Rho94]. operators \cite{Rod08, RSPT17, Sam78, Sed11, SA10, Shk12, TH14, TD16, Tan13b, Wal79b, WD17, Wls81, WC12, ZZ16, ZZC17, ZZ00, dBS00]. optical \cite{FP17}. \textbf{Optimal} \cite{AP17, dBS00, BGV11, Blo95, Igl99, Knu85, LN10, NW02, PSS15, SS79, Sha91, Sma17, VstW14, WM84]. \textbf{Optimal-node} \cite{WPW14].

\textbf{optimization} \cite{BLX18}. \textbf{orbihedra} \cite{ZZ00]. \textbf{orbit} \cite{Far90, LT89a, RS07, Zha01a]. \textbf{orbits} \cite{DRW93, LPS08, LT13]. \textbf{Order} \cite{AA17, KW17, Pen02, vBW95, ACM80, jAS15, BS18a, BH13, BH16, BMMGC16, Cam83, CQW16, CJ12, Cir15, Cir16, Cir17, CM07, CCLN16, CN15, CID16, DTS15, DD14, DL92, Dok93, Dok09, EM95, FTZ08, FP17, FJK98, GZY18, GHT16, HS83c, HSX16, HSM17, Hil07b, HK10, Jin17, JKB17, KMS16, KS17a, Kri16, Kri87, LPT14, Leg06, LW08, LFL16, MRT14, Mat90, Mit92, New80a, Rad16, SWL13, Slo14a, Sta15b, SF17, Tos79, WL18a, XQ15, XQ16b, XSL15, ZX10, ZCP17, tHK17]. \textbf{order-} \cite{Sta15b, SF17].

\textbf{ordered} \cite{Leg06]. \textbf{ordering} \cite{Har78b, WL15, WC15]. \textbf{Orderings} \cite{MP16b, Gro97, Hey88]. \textbf{Orders} \cite{Mar18, And96, JS15, MRT14, Mar15, MRD15]. \textbf{ordinary} \cite{ZG08]. oriented \cite{CT16, GON17]. \textbf{orphant} \cite{Mar92]. \textbf{orphant-monotonic} \cite{Mar92].

\textbf{Orthochronous} \cite{Les93]. \textbf{Orthogonal} \cite{BD97, GP14, GK02, GGW76, Hol95, HK13, Hor04, Lop11b, Per17, BT11, Bas17, BBM15, CH87, DP00, Dok09, Ell95, Gal08, GAGM18, GZ99, GHT16, JWP98, KW92, KLS08, LM93, Lim01, Mat95, MRT12, MR08, TL12, Vin06, WG91a, Zha01a]. \textbf{Orthogonality} \cite{DS02b, Gro17, Hol04, RS08a, AR15, CP13, Fan88, GP14, Per17, R509].
orthogonally [RS17]. Orthonormal [KCBR87, LZ01, MC86, WG91b].
Orthostochastic [PT87]. Orthosymplectic [Lee94]. Oscillatory [CP97]. Osima [HK16b]. Ostrowski [Mar76, She77]. Other [BY76, Bar07, BSS12, MRT14, Pie92c]. Otherwise [Bal78].
Outer [KM14, SPKC15, AB17, LMR94b, LYZW12, Tia01, TS05, YHS13, YGW15].

P [JT95, TT74, XCC99]. P. [Fie84, Zha95]. P.I. [CV94, Di 88, Per15, Reg93].
Packet [Far17]. Pair [BT13, BZ90, IS16, LD17, TT06, Uhl79, WZH13a, WZH13b, You15].
Pairings [Yuz84]. Pairs [BG86, Do 96, Rod08, SB03, Taa74, Aln11, AW13, BJS98, BZ99, Bea78, Cal97, Cal99, CLW15, Che17, Dod13, Fer10b, FKKS11, Gal08, GP06, GTM14, Gur79, Gur92, HZG14, KHG13, KC16, Pet00, SH05, Uhl82, WHG17, Wat77].
Partial [HS83b, Tia02, BMGC16, Cal94, Cho18, CM85, Cir17, Cla92, DD10, GWW16, Gro97, GHT16, Har78b, HK10, JR84, JTU00, JS15, KMS16, LPT14, MRT14, Mar15, MRD15, PT10, TSYB82, WL15, WC15, WL18a, Woe93].
Partially [Bal18, CC17a, Leg06, Sil95]. Particular [BS15a, BcdHP10].
Partite [Shr90]. Partition [BX11, DF87, Fon89]. Partitioned [FL16b, JMP17]. Partitions [Kes83, PM81, PM85, ST97a, Chu90, Cla92, Cve95, Fer09, Fon92, Hey88, RW84, SS12, TOM88].
Partly [MOvdD90, McD92b]. Parts [AS12, GW17, GHK16, Ha89, Pal79]. Pascal [AVFL00, TB01]. Passage [KN00]. Path [DP98, JS99, Guz88, Hou17, RP90].
Paths [AST05, RW84, Ste94b, WSH+11]. Pattern [Ach77, BJS98, CHK00, LLS10, LLO9, MM11, Mer83a, SM94, WYM11].
Patterned [NU94, vR11]. Patterns [MOTvdD03, BJS98, BM12, CJ97, Cav10, CM07, EJ91, Ees93, FHL+13, GS01, GS06, GSS0, Har91, Har95, HS93a, JL93, JWP98, KMOV07, KOVDD09, KMT96, Kir11, LGA+13, LHH+15, MA15a, MY12, YMS13, YHCW14, ZHLZ13].
Pauli [MS15b, MS16b]. Pellet [Mel18]. Pencil [Gou13]. Pencils [Atk91, BY76, LL14b].
Pendant [LT12a, LDL17, WDJ10]. Penrose [Bap97, Bon02, BGZW16, DD10, DW12a, Fie95, Gro99, HV84, HV88, JG97, KMR889, KR07, Kyr11, Li11, MZ15, PA10, SiV06b, SZBW16, SPS15, TC04, Tia05a, YZ14, Zha04b, ZFSX17]. Pentadiagonal [MMG15].

41
pentagonal [Sim83]. Per-spectral [ZWL15]. Perfect
[CG16, PB17, BJ94, DP09, Que08]. period [New80b]. periodic
[CKN95, CLW15, Sat11, Sie99]. Permanent [BC78, CD03, Hon92, Pat03a,
Co66, DJ89b, Fal97, FS86, GJM86, Hon91, Hon93, Hu94, Hwa85, Hwa91,
HS93c, KS84, Lim79b, Lon73, LM89, MS85a, Mer80, Pat96, Phu80, Sin73,
Sin76a, Sin80, Sin81b, Sin84b, Sol97, Sol00, Stn92, dF05, dF13].
Permanental [JP87, LZ11b, Pat89, Bap91, BF75, Cha90b, DJ89a, For79b,
GHL10, HT91b, Kop94, LT92a, LZ14a, Lon97, Mal89, Sou03, WL18b].
Permanents [Ach77, AAT16, 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, EOvdD09a, EOvdD09b, HS81, Hon92, Mer78b, SS98].
Permutations [Cha79b, Kap77, Leh76, LF16, SRW07, Wan80]. permuting
[CL14, Hol85]. Perron [AD17, BOvdD95, BAN12, DM87, EJD88, Fie73,
GSL83, Har78a, JP17, KNS96, KF98, Mel13b, Mey15, Roi66, SPS15, vBW95].
personal [Pri87, TT78]. Persymmetric [Ve83c, Ve82a, Ve82b, Ve83a, Ve83b].
Perturbation [BCM18, CQW16, CLX03, Din00, DM79, LS15, MMRR09, ZY13, ZZZ16,
Ben90, Din98, GLS16, JELS12, KN97, LL17, MMRR16, MZ15, ST15, SWL13,
So99, WMR16, YZ14, ZYL13, ZVL18]. Perturbations [Gal03, ST97a,
BOvdD91, BCdHP10, Bén11, Fer09, Fer10b, MMRR16, SIS12, ZFSX17].
perturbed [BKP01, CTW15, FSS91]. Peterson [GTLN18]. Pfaffian
[CT09]. Pfaffians [IW95]. physical [HWSH13]. physics [BdP98, Da 94].
Picard [CH06]. Pick [CH12]. Pick-type [CH12]. PID [Hua01]. Pietsch
[BPR14]. pinching [PT87]. Pinchings [BKL02]. Pisanski [An10].
Pivot [KMS02, EF98, KMS07, ST08]. pivoting [EM95]. places [Kir04]. planar
[TWZ16, VDW85, YHS13, YGW15]. Planarity
[CM90, Bl95, Die84, Kar90, Vo83c]. plane
[CM15, Ch90, DS16, MM07, Mir90, RW84, ST96]. planes [AG18].
Plethysm [CRY95]. Plethysms [CV94]. plucker [CC92, Tam91]. plus
[Ikr15b, Sol06, IWpW14]. pockets [Bar08, NP15]. Poincaré
[Bed10, Bed11, BX11, Car90, DF82]. Point
[Dok81, CIP17, Sch75, Sch78, Wan17a]. Point-sequences [Dok81]. points
[BLP12, Be86, BS15b, BDK15, CJK13, Gei78, Hon92, KMS02, LPS13,
MS77, NT91, Rao80, Spi00, TH14, ZX16, ZXL16]. Poisson
[CD15, Kay17, Mar12]. Polar
[Jam95, De 08, DP09, Fuy08, LMMR01a, Pas16, Pat87, Pat17, SU77, YZ13].
Polarem [SU77]. polarizing [GR93]. Polarizations
[BBT07, Far93b, Wil81]. polarizing [Ous15]. pole [CFP10]. poles
[AMZ13]. Pólya [SG18, WW76, Whi79]. polyhedral [MM07, Or18, Tam77].
polyhedron [FS86]. Polynomial [AS11a, BP09, Cal03, CCH14, Red02,
SA07, Wat77, Adh13, ASAS79, Ami11, Ami80, BB17a, Bra86, Bre14, BM07,
Cal94, Cal97, Cal99, CDSS17, Dat80, Dia90b, DMd92, Dü97, FZ11, Fe81,
FP17, FdSV16, GA85, GdSV16, GMD85, HHC12, HMAD13, IS15, JRMFMAS16, KLPK17, KK16, Lip98, Lit17, Mel13a, Mer79b, Reg89, SS07, SK15a, SK15b, Uhl99, Wim88, WW12, dO75]

Polynomials

[AP04, Far02, LM85, Mes13, New76b, PT02, Spi76, AS11a, AM13, AS12, AGZ00, BCR91, Ben74, BH74, BG79, BMP10, BPR12, BPR14, BD13a, CC17b, CNP05, CNUV16, Coh88, DP98, De 90, FW73, Fit94, GAGM18, Gar73, Gar79, GV89, GKL182, GLR82, KS07, KK90, KLPK17, KLM95, KLZ96, KL92, LRT91, LZ14a, Lon73, LT07, MW74a, MF77, MR97, MP98, Mar90, MRT12, Mel18, Orz84, Ota13, Paz84, PR12, Per15, Pie92c, PV00, Rei77, SA07, Sil88a, SS96, Sil98, Sl96, Soa08, SL95, Tie16, Tre87, Wat86]

Polytope [SHC02, Bru85, BD13b, Hwa85, dF11].

Polytopes [Har91, Sie99].

Pommerenke [Bol12].

Poncelet [CN04, Mir09].

Pontryagin [Sin83].

Porism [Mir09].

Portions [CN08, ERS12].

Poset [Foš05a].

Posets [AST05, BC91, KC16, Ste94a, WW01].

Positive [BBP78, BR01, Cha90a, CIDK07, DH03, DLW14, Grz91, Hifi07b, AG15, AO78, And96, Bak84, BSM98, Cha92, Cha93a, DM17, DPP17, DH86, DM13, DGJ+16, DJS98, DKL94, DJ98, Dru15, Fan73, Fan92, FW07, Fla75, FH15a, FS15, FSY16, GT14, GMZ11, GJMW86, GLP92, HK16a, Har78b, HS88, HNS99, Hifi07a, Hifi11, HBP18, HM18, HM95, lbr00, JP15b, JN80, JOvdD84, JP87, JR09, KMT96, Koh11, LS10, LSOvdD95, LM96, LP11, LT11, LT12a, LL16b, LF16, LL14b, LW12, Mai11, Mar13, Mat92, MK16, MP16b, Mol15, ND13, Or118, Pat92, ST94, SM94, SMW+15, SBMP16, SL17, Wal79b, WZD16, YH05, ZX16, Zha16b].

Positively [NS85].

Positivities [WLX16].

Positivity [CC98, FJM00, JNT96, YHCW14].

Possess [PP16].

Possibilities [SS96, JR84].

Possible [FW07, HLOZ05, JL91, Wu09, BF96, Uhl13].

Potent [BT06, BTOB, BLZ10, Den14, HLZ11, McC85].

Potential [HMO11].

Power [KPP13, MF92, MO93, BM07, Bv91, CP15, G007, JM85, Lei93b, MGA17, New80a, Tam88, Tan10, TTL11, T12C16, X11, Zha14b].

Power-associative [Go07].

Power-compositions [BM07].

Power-exact [MO93].

Powerful [MM11, WYM11].

Powers [AGR91, Ash16, Aue98, Bou13b, Coa99, Dru15, FKR93, Fri82b, JGS90, Mcf79a, MV19, Pat83, Pok87, Stu89, TT18, Vas87, HOT15].

PP [Ano16c].

Pr [MR17].

Practical [WSZL17].

Preaffine [DW92].

Preceding [Mar82b].

Preconditioned [LZ16].

Predictor [Chu84b].

Predictor-corrector [Chu84b].

Preduals [BPR12].

Preface [Ano16d, BLZ12, CK12, KL11, KL17, LRT08, LT09, LPW14, LSS16, STZ15].

Premi`eres [BC06].

Prescribed [AMZ13, Bot94, BM89, CM92, Cra09, De 82a, DHS95, DS09, Est80, GPM14, GMD85, Her83, KM14, KLPK17, Min84, Sil88a, Sil88c, Sil88b, Sil90, Sil93, Sil95, Sil98, Sil99, Tho75a, Tho75b, TI77, Zab89, Zab90, Zed85, dO75].

Presence [FW13].

Preserve [Lim90a, SB03, BCN05, BP89, BP92, CL17b, HKS94, JS94, JLL98, JP07, LT88c, MZ91, Sko16a, Wat77, Wat82].

Preserved [Can80].

Preserver [Ano92g, BLP92, CL01, Hua16, Joh11, M985, ST08].
Preservers
[BJS15, Gur97, LM03, LS04, LR04, RŠ09, SK03, SPB16, BPS00, BS92, BL97, BL01, BSL01, BS16, BS17b, BS17c, BBEL18, BH16, BMGMC16, CL95, CC14, CL05, CLN13, CLMR09, DGJ +16, FHLS13, GP14, GL97, HQ18, KS12, KP14a, LL16a, Lau81, LT88a, LT92b, LT92c, LT92d, Lim97, Lim01, Lim10, LT14, Lim15, Loe92, Min77, Per17, Sin82a, Slo15a, SA14, TZ06, ZS05, Zha05].

preserves [Coe96].

Preserving
[DˇS04, Dol04, Kob06, Zha04b, AS17, AKS18, BHD10, BHD11, BP90, BL93a, BBBS09, BDS13, BS97, BCS18, BH13, Bot79, Bot87, BM15c, BSL01, BS97, BCS15, BMGMC15, CGY13, Che14a, CW16, Cos14, DS13, Dol07, DHB07, EL90, Fos05b, FKKS11, FHL +14, GM18, HR85, HS17, HH16, Hua10, HM18, HZXL15, JQ15, JLR +92, Joh11, KP92, Kov77, Kun99, Li87c, LT88b, LT90b, LT90c, LM93, LP93, LMR94b, LSS01, LZ10, Lim10, LJ11, LL11, Liu15, MF79, MR12, MS09, MO13, McD92a, Mol09, MN12, Nag17, Pet97, Pet10, Pie79, QH17, Rai87, RJ04, RS06, RŠ08a, Slo13a, Slo14b, Tag12, TH14, TH18, TB92, TX08, WZC11, WZ13, WJ16, Wat83, Wat85b, XCC99, ZHH09, ZCZ12, ZX16, ZWW10, ZXF15, ZL17].

Price
[TT78].

prime
[Cen11, DS13, Far17, JL12, LW15, New80a, Nor95, Nor08, Per15, QH17, Sta14, Sta15b].

primeness
[Per15].

Primes
[RS74].

Primitive
[BS17b, dSP16a, WYM11, AF11b, CC17b, GSS09, LSS01, LM95, LLL09, Lin92, SSG12, YMS13].

primitivity
[BP89].

Principal
[Dru15, LP03, LMMR15, NS92, NS93, Rao81, Vrb86, XFG14, Bén10, Cho82, Dix79, Fie81, HKT15, HS87, Hol84, HT91a, HO17, Joh84, JOvdD84, Nas75, NTU93, Pri78, ST08, TT78, Tho92b, ZHZ11].

principle
[dC13].

principles
[LL14b, Sin83].

Private
[KP14b].

Probabilistic
[BAN12, WW76, Sim83].

probabilities
[Ger86, Joh82a].

probability
[CPZ17, DFP17, LN14, Sti87].

Problem
[Ano82f, CLLT93, Tho82a, Adu15, AHK92, AS11b, AG15, AO78, Ang00, Ano83m, Ano85g, Ano86c, Atk84, BC05, Bap92, Bar88, Bru87, BK87, CC17a, Cal95b, CKLP13, CH12, Che91, CP18, Crol18, CCLN16, Cve95, DS16, DF82, Dod13, DJK08, DWL13, Fdf09, Fie90b, Fla75, FH89, Gar85, GB77, Gra93, JC74, JL85, Joh89, JJK95, JN14a, LW96, LLW07, fLLyP15, LMMR01b, LW10, LL17, Mer79a, Milt5, Min80a, Min82a, Mir18, MMG15, MS15a, MAM15, Mum86a, ND13, New83, Raw81, Rea96, RP04, SR17, Sin84b, Smi05, Sol06, Sol80, St079, Tat73b, Tho85, Tho87b, Tho91, Tre85, Tre86, Ves80, Wan17b, WW01, Zha92, ZY13, ZVL18].

Problems
[BL80, AAB17, Ano82g, Ano84e, Ano84f, Ano92g, jAS15, BCR91, BLP92, BR01, CQW16, Che92, CL01, CID16, De 84, Din98, DJ98, Frid88, GMB17, GKT97, GM87b, HRMP95, Hua16, Joh82b, Joh11, JTU00, KPL +09, Li85, LT88a, LZ16, MM06, Man91, Mer91, MŠ98, SQM99, Sch91, Sin82b, SS15, Wii83, WL16c, Xuw93, YLW15, Zha00, ZHZ11, dF13].

Procesi
[Reg87a].

process
[FSFSO +14].

Procrustes
[Rau18].

produced
[Tia11a].

Product
[AK94, BLDPS04, Cal03, CGL +16, GN02, AF12, AJL18, AHT85, AHJ87, Aze99, BCDF09, BM17a, dAB17, Boa13, BM15c, BM17b, Boz99, BH15b, BZZ10, BM16, Cam78, Can80, CK17, CW16, Cho18, Con77, CD15, Di 88, DM13, FD14, FKKS11, Fow80, Gha13, Gra10, Gra11, GT98, HZ11,
HPS83, Hol85, HH16, HXL16, HWSH13, HZXL15, IS15, Joh77b, JN90a, JS99, 
JN00, KT06, KR14, Koz17, Lee94, fLLL+17, Lim90a, LMMR01b, LJ11, 
Mar97, MP16a, Mat92, McF79b, Mir92, Neu74, Nor95, Nor08, Pat08, Pat09, 
Rad16, RW96, Rod81, STME10, Sil93, SAV01, SZBW16, Tan13b, Tho74, 
Tho88, WZD16, WJ16, XQ16b, YZ16, Zha00, ZPCZ16, vR11]. 

Products
[Bal77, Bal79c, EM87, Ell95, Gib76, Laf83, MKS84a, O'R15, Pat81, Rod97, 
ST91, Sul80, Wil99, Alp95, AO97, BK83, BJ75, Bar76, BJ93, BJS15, Bre12b, 
Bre16, BSO13, CW81, CGY13, CL85, CG17, CL17b, Che95b, CKL16, CG16, 
DSD83, De 78, DF90, Do07, Du10, FL16a, FJM00, FHL+14, FIS06, GWW15, 
Gil16, Gro96, Hal91, Har84b, HS81, Hol84, HMN91, Hua08, HLH18, Joh74b, 
JOvdD85, RN90b, Kit91a, Kur04, LL16a, Lim15, LMMR01a, 
LW08, LFY16, Liv94, MKS84b, NS99, Ng14, Pat82, Pat92, Pat08, Pet10, 
PT87, RS10, Sil90, Smi94, Spi04, SW81, Sur98, TH14, Tan16, TC04, Tia05b, 
Tia18, Uhl82, Wan80, WZ97, WC16, Zha89, ZHH09, ZX10, ZXF15, Zim89].

programming
[Bar07, Che92, Gur98]. 

programs
[Caf13].

projection
[Gro99].

projections
[AHT85, BR10, BCI13, Gal08, KW17, KR07, LD17, MR08, Rei83].

Projective
[Jam88, Re675, Den05, Ng14, Pan13, RS06, RS08a, RS09, SZ85].

projectors
[BT11, BT13, DW12a, GT98, KR14, TL12, TCI13].

prolems
[EJ88]. 

Proof
[Kit81, Rad80, Tho86b, AY95, Aue95, Bar12, BD96, Fri82a, 
HL09, Koh11, Mei18, Min82b, Poo80a, Reg87a, RW84, Rem90, Roi99, Tan91].

proofs
[CL13, DHT94, MS82a, Rem82, ST80].

proper
[AMZ13, Ger82, Tho75b, IW15]. 

Properly
[Fri97].

Properties
[BD94, EMS02, HM77, HK17, KY17, McC85, WD17, BC82, BS17e, BS18a, 
CL94, CJK+13, DST91, Din15a, Dra13b, Dra17b, EB17, Far17, JNBR93, 
KI6, KW17, KS84, KM98, LZ14a, Lor00, Mai11, MSS13, MRT14, Mar13, 
MH12, NG15, PRS03, RP04, SMBB+15, SSIW15, ST08, SKM17, SL17, TG09, 
Tra89, Tra90, VM07, WC12, Zel85, ZW17a].

Property
[Che95b, CN04, Ger74, BNP06, BESD12, Can80, CP16, GF10, Har84a, LS17, 
LFY16, LC83, ND05, Per15, Rom07, Tur74, Wer87, XQ15, ZCWI12].

Proving
[Red02].

Pseudo
[FG02, Bal79c, BS18a, –DM79, Mir18, ZZ16].

pseudo-involuntary
[Bal79c]. 

pseudo-reflections
[DM79].

pseudo-Schur
[BS18a].

pseudo-Strong
[FG02].

pseudo-symmetric
[Mir18].

pseudocharacteristic
[Mer79b].

Pseudoinverse
[Bon02].

pseudospectra
[ABJ16].

Psi
[Pat93].

Psi-functions
[Pat93].

pure
[CCL10, EJ91].

purely
[Bar07].

Putnam
[Ras17].

Pythagoras
[Haw05].

Pythagorean
[YLL90].

QR
[LYS15].

Quadratic
[BSO17, Rob77b, Adh13, Bae84, Che92, Dra18a, Edw80, Fei75, Ful76, Ger82, 
KML95, Lee18, Lew97, LPT11, ME18, Pap13, PUÖ15, Rus16, Shr90, Sol80, 
SM14, Tan81, TS05, Tia11b, UÖÖ15, UPO16, Ves80].

quadraticity
[PUÖ15, UÖÖ15, UPO16].

Qualitative
[JvdD91].

quantifying
[Aud15].

quantitative
[Fei73, IT16].

Quantum
[KLZ10, MS16b, Ahn11, AG18, BLX18, CGH15, Da 94, DHKSH08, Drn13,
FHLS13, JP15a, Joh14, KPL+09, KP14b, ShDHG08, Zha14a]. Quasi
[And96, aCC17, dSP16b, Gol06, LBV13, MP18, TLC16]. quasi- [MP18].
 quasi-coprime [TLC16]. quasi-filiform [LBV13]. Quasi-orders [And96].
Quasi-range-compatible [dSP16b]. quasi-strongly [Gol06].
Quasi-Whittaker [aCC17]. Quasidirect [LS96a, LS96b]. Quasimonotonic
[Gol90]. Quasinormality [Ras17]. quaternary [BX11, BSO17]. quaternion
[haYsS99, AAB17, AY84, AY95, CCL10, EÖ15, Fen10, MVP14, Rod08, ST96].
quaternions [Kri87]. question [GR14, KNX93, KNX95, Sin80, Zha95].
questions [BHM76, CKLP13, dF11]. queue [GT08]. Quintuple [Sto79].
quotient [ZY13]. quotients [BdPNdP17].

R [Ano79b, Fie84, Shk12, Zha95]. R. [Don91]. Racah [WHG17]. radial
[Li86, Tam86]. radical [MV75]. radicals [GLOT13]. Radii
[Gol79, LR04, AO97, CC14, CL14, CLMR09, FNBR96, GW15, Gol79,
Le91, Le99a, Le98, LT89b, LT92c, LMR94b, L90, LFL17, MS82b,
MS85b, Tam98, YHS13]. Radius [Fa74a, LS02, PT02, ALP94, BD90,
BM7b, BBZ15, CCS16, Cha92, Cha93a, CW17, CHQ18, Cos14, DM14,
DIF13, FTZ08, FLZ07, FY13, Fri93, GL11, GTZ75, GB11, GLS16, HH16,
JL88, JSG94, Koz17, LP07, LTT84, Li87c, LT88a, LT88c, LS01,
LT09, LT11, LT12a, LC14, LS12, LS13, LL15, LZ17a, LZ18, LL10b, Man91,
MO94, NP13, NG15, Okt93, Pep11, SYZL17, SSH17, SZWB16, yT86,
TJ11, Ton87, WH11, WD10, XZL14, YSY17, ZHH09, ZG11, ZW17a, dP09].
Rado [GX17b]. Radon [AY93, GP74, Lee98]. raising [GR81]. Random
[Tan13b, Che18, Din15a, Rau18, Sha15, TJ16]. random-effects [TJ16].
Ranges [AMP02, BK83, BD94, CN04, Far02, GW04, KR07, LN98, Sed04,
haYsS99, AAK16, AYT83, AS84, AY95, BJS98, Bal80, BB15a, BD88, BLD91,
BL92, BD96, BDP14, CJ07, Cha18, Che94, CL94, CT96, CT09, CL13, Chi98,
CN05, CN06, CN07, Chi11, CN14, CGL+16, CH10, CKP09, Cro08, EM15,
FT87, Far93a, GW98b, GW08, Gro96, HH16, How80, Hu89, HT91a, Hug90,
Jam88, Jam95, JLL07, Jon92, JR93c, JR94, LLS14, Le92, LT92a, Le93b,
Le95b, LT88a, LT88c, LT91, LMR94a, LSS01, LPS09, LT09, LD17, LP16,
LTT11, Man87, Man91, Mar75, MF79, MS79, MW08, MS82a, MS87, MS15b,
MS16b, NNT95, Nak95, dSP16b, Poo80b, Poo94, PV00, Rod08, RS08b,
ShDHG08, ST80, STZ94, ST96, Spi00, Tam85, Tam88, yT00, Tho80, Tho87b,
Tsi83, WZD16, Wes75, Woe08, WC12]. range [Yu98, bPFZH08, LLS16].
Rangef [BLdPS04, Ber02, BS04, LS04, LR04, Loc74, AyT84, BdP98, BdP12,
CGW14, CL17b, Che14b, Che16, Che17, CN05, CN08, CN15, CL00, CGHK08,
CLMR09, Da94, DHKSH08, ERS12, FHL+14, FL16b, GW12, GW16,
Gol79, HT91b, JNBR93, KPL+09, KP14b, Le93a, Le98, LT92c, Li94, Li96,
Li98, LPT11, Mag13, Mag14, Man92, MP87a, MR97, MP98, Sza09, Tam94,
TGW14, Tsi81, vD96]. Rank [BT11, BPS00, BL97, CM15, Cho10, CL01,
Dod13, EL90, Fer09, Gal01, GVS96, JT03, KP14a, Mar13, MF92, OW02,
Pat03a, ST97a, So99, SLH16, Tia01, Tia02, Wal79b, AW83, BHD10, Bal14, Bal18, BI95, BOvdD91, BL01, BSL01, BS16, BdP12, Ben90, Bén11, BHH+11, Bot87, CCS98, CGW14, CT16, Che14b, CGHK08, CLN13, CLMR09, CP18, CO12, Dec95, Der16, Der18, DH16, FW13, Fie81, Fra17, Ful76, FS89, GRMA13, Gon17, Gro99, Gur79, Hai88a, Har81b, HS87, HLZ05, HKS94, JW91, KS12, KP14b, KS17b, Kuz05, Laf78, LL16a, Lau81, LPZ13, LPS09, LGA+13, Lim90a, Lim92a, LT14, Loe93a, Loe93b, Loe01, Lon80, Lon81, MUS16a, Mar11, MMRR16, Min77, MSS18, MS15b, MS16b, MS15, Ned98, Or118, dSP16a, Pet09, SdF12, Šem97, SMBB+15, Shi15a, Shi16]. rank
[SMF95, Sil88c, Sil88b, SS12, SBMP16, SKP18, SF17, Tia05a, Tia05b, TWZ16, Tia17, Wan79, Wan15, WM17, Wat85b, Wes80, Wes81a, Wes87, Wes90, Woe93, Woe08, Wu09, WW12, XL17, ZS05, Zha05, ZY17, ZXF15, Zho16, SLH18].

Rank- [CM15, KP14a, BL01, Che14b, Fra17, Loe93a, Loe93b, SF17, XL17].

Rank-additivity [Har81b].

Rank-one [Cho10, CL01, BHD10, DH16, MMRR16, SKP18, ZS05].

Rank-preserving [EL90]. rank-subtractivity [Zha05].

Rank-sum [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, BS92, BS17c, Bot94, FKR93, HK79, Hav05, KJ13, LGA+13, Lim15, MSS18, MRS10, Pat87, SMS15, Tia11b, Tia18]. rate [Doo16].

Rational [AMP02, Afr73, AMZ13, Bri89, CM85, Fei75, LR96, MZ04, Ota13, RR91, Si84, Tre85, Tre86, TSYB82, Uhl79]. Rationality [Fri90a].

Rationally [DH91, Tre87]. rationals [MV75, New93]. ray [BGZW16, ZHLZ13].

Rayleigh [AB78, BdPNdP17]. rays [Pat03b]. reachability [NS85, NST91].

Real [Joh81b, LP02, Slo13c, SB03, Wes81a, haYsS99, AF11a, AF11b, AF12, Adk95, AS12, AGZ00, Bal14, BS92, BB75, CO12, CIDK07, DH86, Deu80, Dok83, Dru15, EJ91, Esc93, Fan73, GP14, GW17, Gon17, GHK16, Ha89, HW13, HW14, HS88, HLZ11, Jia17, KJ17, Joh84, KML95, LS16, LM93, MMRR16, Mes90, Mir09, Moh16a, NP91, ORT15, Otal3, Pal79, Pasi5, Per17, RSi6, RSo9, Rom89, SU77, SL15, SMS15, SK15b, TT12, Tho75b, Tie16, Wes80, Wes81b, Zha05a]. real-positive [CIDK07]. realizability [JMP17].

realizable [LS10]. realization [JMS15]. Realizations [NU94, AM90].


reconstruction [SS07]. rectangles [Lor14]. rectangular [BCR91, CKP09, Cra91, LT88d, MHH96, Mis17, ZS05]. recurrence [Kom10].

recursion [BVW84]. reduced [Car06]. reduces [For79a]. reducibility [OR09]. reducible [Cav10, CNP06, CN07, GSS09, Ikr15b, Stu89]. Reducing [OW02].


Refining [Bap88]. Reflecting [AFVL00]. Reflection [LM03, Ell93].

reflections [DM79, EM87, Ell95]. Reflexive [Mia93b, AH13, CIN15, Had83, Qi15]. réflexivité [Del94]. reflexivity

47
regarding [DJ89a]. Regional [JLR+92].

Regional [LS04, LL14a].

Regional [CHK00, Del94].

Regular [KS15, Peñ02, AG16, Bcem12, CP81, CLW15, CP18, DP17, DGR08, EB17, FG06, Goł06, HS95, KMS16, Koo95, LR13, LM10, MS10c, NS99, PH15, Rod03, Sta10, TW17, Zho16]. Regularity [FG02, BV16a, CFGM06, HRT15, RR95, Ska17].

Reject [Whi74]. related [AkK17, Ala16, AGR91, Car90, CKLP13, CN14, Cho18, CL01, For79a, GX17a, Hon92, LPT13, LT87, LFY16, Md92a, Mcf79a, SMMB+15, Sin84b, Sto79, SK15a, Tra01, Tra84, WZ14, XQ15, ZBW12].

relating [JL88, Li91, Pat82]. Relation [CD03, Bén10, DK16, Fie90b, Lim79b, MW16, Wan16a]. Relations [DS02b, BCM18, CC92, Che14a, GZ76, JR93c, JR94, Kom10, LST89, LT92d, PT87, Put82a, SXR18, Sim83, Tam91]. Relationship [WW12].

relationships [SPS15]. Relative [KL93, JKD16]. relevant [Tik98]. remark [CH10, Fan88, Fri90b, GT79, Hu81, Mar82b]. remarkable [JLL88].

Remarks [BSM98, For79c, LW11b, dF13, Gro97, Od08, YT15].

Remarques [Rev81]. report [LRT08]. Representation [Adn15, JT04, Tur02, Gau76, SX12, Wes81b, YW09]. Representations [BZZ11, Che93a, DD10, Don91, Fu17, KO10, Kra06, Mer82, SKM17, ZFSX17, Abo90, jAS15, CR15, CV94, CICX09, DD17, Heo16, Hun83, Hum86, Kyr11, Lip87, LYZW12, MPI17, MR13, SQM99, Se95, Tii77, WL16b, ZT12].

representative [MN96, WW80]. representing [RD12]. Reproducing [BR04]. 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, Tau3b, Tho82a, Tho85, Tho87b, Tho91, WW01, Zha92, Ano97b, LW96, Mer79a, Zha00].


Restricted [Pap13, Balf9a, Che93b, Che93a, CP16, Ned98, SG96, SPK15, SPKC15, Wer84]. restricted-rank [Ned98]. restriction [Wan15].

restrictions [BZ99, Bou18, Far94]. result [AkK17, BB17a, Har84b, JLL11, New74, New82a, Poo80a, Ric87b, Tam91, ZZY16]. resultant [Bar80, GKLRS2, Orz84]. resulting [MP87a]. Results [LN98, Tau74, TH80, AAK16, AN14, BL83, BKH78, BM17a, BLZ11, BZ10, BSZW13, CL13, De 82b, DCW10, DW12a, DHT94, DIF13, GHL10, GX17a, Guz88, KClCV18, Li84, LT87, LST17, MM97, Mou13, NS85, New75, Nie10, SMBB+15, Sin82b, SWZB15, Tam77, WC15, wWyD11, Wer87, ZCP16].

Retarded [DGR08]. reversal [Kir93]. Reverse [CIN15, KM11, LW08, Rad16, ZCP17, BS18a, CID16, DD14, HKO16, LFY16, RW84, WZ14, XQ15, XQ16b, ZX10]. 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, Tho82c, WMN74, CS79, GMS+76, JTH77, LW78, PA79, WTM78, ZF78].  **revisited** [DD14, Ere15, FHL+13, Joh90, JZ95, Per17].  **Revisiting** [Lip87].  **Ribbon** [FJK14].  **Riccati** [CK84, FN14, Igl99, LRR87].  **Richardson** [AW13, AM90, BG90].  **Rickart** [Cir15, Cir16, Cir17, Kre16, Mar15, MRD15].  **Riemann** [Red02].  **Riesz** [PCM18, CDJ13, FJS14, HSM17, ZCC17].  **right** [Ake83, BaI80, Dok73, HBM15, MRD15, Pat89, Tho86a].  **right-star** [MRD15].  **rigid** [BCS18].  **Rigidity** [BCS18].  **Rigidity-preserving** [BCS18].  **ring** [Bas17, BH15a, DL92, Dok93, For79d, HWZ18, Hua10, HPV84, HPV88, LPT13, LCL13, Lew90, LQ95, MW16, OWX09, Piz87, Slo15b, SX12, TW17, WOY06, WZL13, YWO07, ZWM17a, ZWM17b, ZCC112].  **Rings** [GMR81, RR04, Rao81, AH10, ABWV16, AW13, Bas17, BLR12, BC13, BB17b, BDVW12, BDvW16, CS18, Cir15, Cir16, Cir17, Coa99, DvV13, DS13, DD15, Ere15, FJK14, Fog73, FSvW11, GV89, Gub81, Hau05, HLU18, Jam88, Jam95, JL12, Khr16, KL12, KR07, Kre16, LPT14, LWZ15, LC18, LL10a, LCL14, Mar15, MRD15, Mar18, MP13a, MP87b, McD92a, New85a, PA10, QZ16, QH17, RS08a, ST97b, TZ17, Tau73a, Wan16b, Wat85b, YWO7, YQ90, ZWZ10, ZYO7, ZCP16].  **Robert** [Ano97b, Day97, GPR84, New97].  **Robertson** [JZ95, Joh90].  **Robinson** [Foa79].  **robust** [Ano16c, Ous15b, Sol14].  **role** [MN96].  **Root** [Hai92b, BAN12, CGH15, EJD88, FZ11, Hai92a, Mel13b, Mey15, vBW95].  **roots** [AAT16, CL74, HHC12, JN80, KN81, Nom73, Ota13, Tie16, Uhl99].  **rootsystems** [Hai88, Hai88b, Hai97].  **rose** [MH16].  **Rota** [FW73, Gar73, ML16].  **rotation** [GTM14].  **rotational** [Sjo93].  **Rotations** [Edw80, Edw78].  **Rotfeld’d** [FL16b, HWY17, Zha15b, ZN18].  **Roth** [FW13].  **round** [Spi00].  **Row** [Joh81a, JP17, SS12, FV97, Har81a, Kap77, LSOvdD95, MH12].  **row-adjusted** [MH12].  **RS** [GTLN18].  **RSVD** [LT10].  **rule** [BG90, CRY95, Che93b, CPT15, Wer84].  **rules** [Che93a, Kyr08, Kyr11, MS10a].  **Rutishauser** [TT15].  **Ryser** [MS85a, New83].

S [Ano16b].  **S.** [DF82].  **Sachs** [AAT17].  **Safety** [GHV99].  **same** [CW90, Do 96, Fer10b, JGK79].  **sampling** [KKP13, SR17].  **Samuel** [Yu14].  **Sandy** [Tam86].  **Santa** [Ano79c].  **satisfied** [Wan82].  **satisfy** [McD92b].  **satisfying** [CW11b, CW12, DiI97, Pet09].  **Scalar** [Est80, AF12, Bre15, PY82, Rod81].  **Scaled** [BKLO2].  **Scaling**
[JR90, FLS88, HS85, Sha91]. Scalings [HS85, SS79]. Scarpis [Dok17]. scattering [MS10c]. Schatten [FNBR96, So90]. Schmidt [LF15].

Schneider [BHM76]. Schröder [RS18]. Schur [AO97, Bap88, BT06, BS18a, Bun91, CRY95, CPLH17, Dia79, DS02b, ES98b, ES00, FJ15, GMZ11, Gur83, HS75, JK10, Kim91, LM98, Liv94, Mas10, MO94, Neu81, NT86, Rem90, SV14, Smi83, Tam02, WZ97, Wat86, Zha04a]. Schur-concave [Tam02]. Schwarz [Dra11, Oku91]. science [FHLS13]. score [Kir91]. scramblinj [GM18]. search [CSCH01]. Searching [FK91].

second [Ano79c, BPW16, Cam83, DTSI15, DdF15, Gro85, HSX16, Hii07b, Jam81, LP00, LLF08, Lim90a, LXG17, Sim95, Sta10, Wall1, XZ16, XSL15]. second-order [DTSI15, HSX16, Hii07b, XSL15]. sector [FL16b, HWY17]. seeds [JP15a]. Segment [Vo83c, Vo83a]. segments [GW08]. Segrè [BB13]. selections [LP16]. Self [BL83, OP13, Din15a, FS14, Gi17, HH16, Kit91b, LLMT05, Sin84a, Tan13b]. self-adjoint [HH16, LLMT05, Tan13b]. self-adjointness [Kit91b].


selfadjointness [Dra11, Dra11, ELG88, GLR82, GR93c, JR93b, KML95, KLZ96, MP98, Rod08]. Semi [Knu85, AFM13, BCM18, Cha90a, Cha93a, CH10, Chu84a, DJ89b, GLP92, HS88, HNS99, HM95, LW12, MM06, Mat92, NS15, SU77, SM94, Tra84]. Semidefinite [SU77].

semidirect [Che95b]. semi-Browder [AFM13, BCM18]. semi-definite [Cha92, Cha93a, Har78b, LP00, LL16b, Liu16a, MS13, Mo13, Pat92, Yu14]. semi-definiteness [Cha90a].


semi-simple [Chu84a, HPV84, HPV88]. semi-tensor [LLL+17]. semibounded [Uhl82].

semidefinite [BHH+11, Caf13, DM13, DJ89b, GLP92, HS88, HNS99, HM95, LW12, MM06, Mat92, NS15, SU77, SM94, Tra84]. Semidefiniteness [SU77].

semidirect [Che95b]. semigroup [RS07, RS74, cc85]. Semigroups [BC78, AAJ12a, Ber05, CS10, DW92, GT14, LMR00, MP13a, OR09, PY82, RD12, ZCP16].


semiring [KW11]. semirings [AAJ12a, BL93a, BGLS07, BSS12, LLL+17, Mohn15, MP16b, Shi15b, ySpW14, ySpW17, Tan13a, Tan14, Tan18a].


Sesquilinear [Lee15, LMR94a, Nak95]. Set
Sets

Sets

Seven

Several

shape

Sharp

sharpness

shell

Shemesh

Shift

Shifts

Shoda

Shoda-completion

Shoda

Sign

Sign-balanced

Sign-central

Sign-patterns

Sign-Solvable

Sign-stability

Signature

Signatures

Significance

Signless

Simple

Simplexes

simplicial

simplicity

Simon

Skew

six-term
GTLN18, Gon17, Kyr11, LW17, LTT11, LCL14, Lop11b, Lop18, MS16a, Mat92, Neu83, Nof15, PM85, Rod97, Zha16a. skew-Hamiltonian [Nof15]. skew-Hermitian [AM13, LW17]. Skew-rank [CT16]. skew-symmetric [DH11, Lop11b, Lop18, Mat92, Neu83, Rod97]. skew-symmetric [LR13]. Small [Fer10b, ST97a, Bre15, CGH14, Dok09, Fer09, LLT93, Mes13, Pat83, dSP11, PGLM00, SS12]. smallest [CL86a, CL86b, Dec95, LLL80, PLH01]. Smith [Arn17, BK17, Cha96, Der83, GRMA13, HS96, IH11, Koo95, LT12b, New94, Pro95, Tho88]. smooth [Rao18]. sole [dSP12]. Solution [JSY14, AHK92, ALP94, BZZ11, Che93b, Che93a, De 13, DWL14, Gra80, HKT15, HW14, HBP18, HM18, JS84, JN14a, MK16, Min80a, SPM14, Ve18a, WZH13a, WZH13b, YLI11, Zha04c, Zha16b]. Solutions [DH03, Fla74a, Tia03, Bak84, BBP78, CC17a, CH12, CCL10, CIDK07, CID16, DH86, DH11, FHW16, HW15, HSX16, L185, Pen15, PM78, Son14, Wan15, Wer84, XSL15, YHL17]. Solvability [Lev74, fLL+17, YqS16, AG15, JvdD91, KP11, Lip96, Tia00]. Solvable [KS02, BL10, BCS18, CLOK13, Far93b, KLO14]. solve [BS17d, LT10]. Solving [ST97b, KM17, fLLyP15, LZ16, LW10, XJW17]. Some [AAK16, AN14, AW07, AyT84, BS15a, Bal75, Bal76, BG83, BD94, BKL97, BZ10, BSZ13, Cha89, CL94, DH17, DST91, DCH10, DV18, DH19, Dra16, Dra18a, EMS02, EI17, Fan92, FH15a, GLOT13, Gai77, GA18b, Grof7, GX17a, HS83c, HS96, Hua08, Hua09, HXL16, J182b, K116, KS84, LT88a, L196, LM98, LN98, MM06, MW80, MR97, Mar92, MH12, MTR11, M90, New75, Odo83, Oku93, PH15, Pop14, SQH15, SSW15, SG96, Sim95, Sim82b, SWZ15, Tan77, TT78, Tan74, TC04, Tia05b, Wan82, WH12, Wer87, YT15, Zha00, ZN18, ZW17b, dF11, AE10, BK17, Bel15, BF74, BZ89, BA17, BD14, Cal94, CGOT13, CGMR11, CL13, CM15, CL01, DP17, Deu80, DHT94, Din15a, DDD76, EL09, FD12, Fen10, FH15b, GA18a, GP15, GT11, GL97, HW15, Hua16, HHL18, JKD16]. some [KMRS89, KSM16, KT06, Kop94, KL92, Lei95a, LT87, LT88a, LPS13, Malh8, MSS13, MP87a, Mar89, Mar00, MT11, MM07, Meh84, Mou13, New80b, Nie10, PP16, PM78, Reg93, Rho87, Rho90, Son14, Sta84, SL17, Sur98, TL12, Tra89, Tra90, Ye11, ZWL15, ZBW12, dC15]. sorting [CW91]. Soules [Pat89]. Sp [Ber86]. Sp-modules [Ber86]. Space [BldPS04, AC15, Adh13, AGR91, Bea85, CDJ13, Cla92, CR77, Das17, Das18, DTS14, Dok83, EB17, Fl25, HT12, How80, JS15, LSYW12, MS88, MM09, MN13, Pat77, Rob75, SA10, TD14]. Spaces [AW83, BR04, HLZ02, LT92d, dSP12, Wes74, Wes87, Zha04b, AF12, ACMS10, Atk84, AY84, BT13, BBT07, Bar07, Bea85, BL97, BldPN14, BZ89, BPR12, Boz97, Cha79b, CL83, Che91, CLN13, Con77, DH17, De 08, DP09, Dok90, Dra10, Dra11, Dra16, Dra18a, EDK107, Edw80, FLR85, Fri97, Gil16, Gra80, GX17b, HSM17, HS85, Hol95, IK12, Jan95, KC16, K116, KL15, KT83, Kru06, KME10, LLLMT05, Lim90a, Loe01, MSS13, MID17, MZ91, Mer78b, Mes90, Mol15, Pan15, Pas15, Pat17, dSP16a, dSP16b, Pet09, RT09, RS85, Rao18, Rod81, RS06, RS08a, R90, SZ85, Sel81, TD16, Tal17, TZ06, 52
spanned [Bun94]. Span [How86]. sparse [Sol14]. sparsity [SM94, tHK17]. spatial [LMMR15]. Specht [MMR07]. Special [LPT13, AG16, Bas17, CL91, CL17a, –Dok09, GA18a, HS83c, Joh81b, JLL88, KS76, KV13, LT09, Ma15a, Ma95, New80b, Phu80, Pop14]. specializations [MF77]. Specified [Che03b, Ano79b, JKS79, Kap77, Kir14, PRS03]. specifying [Joh77a]. Spectra [BP16, Gol16, LEM15, LPT11, LM10, LZ14b, MOTvdD03, MGA17, BHC16, Bar08, BS17a, BDR13, BJS15, Ber05, CL17c, CD15, Cro18, CD5s, DK17, Fri82b, Fri12, GR93c, GM90, JKD16, JLP17, JMS15, Kra06, LS10, LLD17, Meh84, Mir18, MA15c, NP15, NP09, WZ13, ZLS11, ZG08]. Spectral [Fla74b, FJ01, IS15, LN16, LLF18, NG15, Tos79, Tur02, WC12, XQ16a, Yiz02, Yiz03, ZB13, AAS14, ACMR17, BPD88, BDKL97, BBZ15, CCCS16, CHQ18, Cos14, D1n15a, D1F13, FTZ08, FYS13, Fri81, Fri93, GL11, GTZ75, GB11, GLS16, HRMP95, Joh77a, JN90a, Kir04, Koz17, LP07, LLW+11, LTT84, Li86, LMR94b, LIT11, LT12a, LC14, LS12, LS13, LL15, LZ17a, LZZL18, LM19b, LHI3, LLD17, Lon83, LSZ86, M16, MP96, MAM15, MA15c, NP13, PRS03, SQM99, SQH15, SSW15, SYZ17, SH17, SZWB16, Sza09, TJ11, Tan13b, Tl198, Ton87, UZ16, WSH+11, WH11, WBZ14, WW15, WDJ10, XZL14, YSY17, YHS13, ZG11, ZWL15, ZW17a, ZW17b, dPN81, dP09]. Spectrally [BM12, CM07, GHT16, IS16, MY12, ZHLZ13]. Spectrum [GMZ17, KLZ96, LMT05, Rod03, Sen83, BR10, Boa13, BM15c, CP15, CP17, DP17, GIL12, GT08, HMO11, JX13, KP12, Kra05, KML95, RP90, So99, WW12, Xu93, ZZZ16]. spectrums [Sin82b]. Sperner [Can80, Har84a]. spheres [Dok81]. Spherical [Gam00, CLL14, Da88]. spin [Dok81]. spinor [AF12, Ger82]. splines [DTSI15]. Split [KADM10, EÖ15, Mar12]. splitting [LW17]. splittings [CP18, JMJ13, SPS15]. spread [FX12, NT94, SdF12]. spreads [Tho92b]. Square [Bom02, CL74, JN80, MDW11, ZW10, AKS18, BL13, Din15b, Gre99, HL09, LW07, Nir11, dSP17, ST80, Slo16b, Sol80, Sta15a, XQ16b, ZWW10]. Square-zero [MDW11, ZW10, AKS18, dSP17, Slo16b, ZWW10]. squares [AS95, AAB17, Bur11, Ca13, Din98, Gra87, GKT77, JS84, LW08, LW10, Pen15, Ric85, Ric87a, SMF95, Sin73, Sin76a, TH80, Vas86, Wan15, Wan17b, Wu09, XQZ13, YL11, YLW15, YZL17]. SR [JLX15]. SSOR [Neu84]. Stability [FD12, JOvdD85, Lee94, Lev74, PT02, RRR93, TT18, BC83, BV16b, BK12, Cai93, CCS16, CW17, Den14, DHK16, ES98b, GPM98, GX17a, HRT15, HS88, Jvd99, Jvd88, LDT18, Neu79]. stabilizable [Rai44a, Rai14b]. stabilizer [AF11b, JP86]. Stable [Fri84, GGL03, Rai44b, ES00, Jam88, Jam95, ME18, Sta84, Rai14a]. staircase [Hwa85]. Stand [De82b]. Stand-alone [De82b]. Standard [MS02, CW11b, HQ18, Rem82, YWO07]. Stanley [Har84a]. Star [BH16, Cve95, MRD15, ACMS10, BS16, BH13, CT96, Cir15, Cir16, DSD83, DF90, GS06, HSS83c, Kre16, Leg06]. star-shaped [CT96]. starlike [ZB13].
stars [BF05]. state [BLX18, BFZ07, CG16, DPP17, Gue17, HRT15, PB17].
state-feedbacks [HRT15]. state-wise [Gue17]. states
[Drn13, HWSH13, Man17, ZBW16]. Statistical [DHT94, Mai11, TS05].
Steady [DPP17]. Stein [LZT18]. step [YD14]. Stephens [Ano79b].
Stochastic [Bar74, Gilb02, Johb1a, Sinb81a, SCHC02, SJ02, Ach77, AS95,
BWF83, Ben87, Bru85, BS08, BD13b, Bur95, Cha83b, Cha84a, Cha88, CL05,
DPP17, Esh17, Fie90b, For79a, FS86, For88, FM78, Gib76, Gol92, GLF92,
Har81a, Hwa85, Hwa91, Joh73, Joh74a, Joh81b, Kir09, KS76, KS82, LLL15,
LZZ17, LM89, Mal91, MKS84a, MR07, Mer98b, Min75, Min82a, Min84,
Mon04, MAM15, MA15c, ME18, Phn80, Pif87, Sen83, Sin73, Sin76a, Sin76b,
Sin77, Sin80, Sin82b, Sin84a, Wal75a, Wan76, Wea83, Web83, Zha14a, dF13].
stochastically [Lon90]. stopping [Zar01]. Størmer [HOT15]. straight
[HT91b]. Straightening [Wil99, CW89, Cla82, Mal92]. Straus [MS82b].
Strict [Mum86c, CC98, Mum86a]. strictly [BCKP10, CW16, Józ15, Neu83].
Striped [MOTvdD03]. Strong [DS13, FG02, HQ18, LL11, Liu15, MO91,
QH17, Ska17, Cir17, Har84a, Pan13, SSG12, dB14a]. strongly
[ADRP14, BP99, BP90, BP92, BL93a, Can14, FG06, Gol06, YW10, YBCW96].
structurable [EKO14]. structural
[AAB15, DPvW13, FStvW11, GPM98, HLZ11]. Structure [Gur80, AMZ13,
Boz07, FJ15, FJ09, GL85, Grz89, Heo16, HSM17, HM18, Kre05, KMS07,
Kre16, LW15, LEH96, MHH96, Mar12, Mer78c, Min74a, NP09, RJ04, ZZ00].
structure-preserving [HM18]. structured
[BR01, Mag83, MMRR16, MS15a, YW16]. structures
[ABvW16, LGB17, So90, WZH13a, WZH13b, Wil73, Wis12, vR11]. study
[CW89, Fri78, HRT15, Mis17, TJ16]. Sturm [GMZ17]. style [Wat85a]. Sub
[CK17, AA12, BZ10, WM17]. sub-additivity [AA12]. sub-block [BZ10].
Sub-defect [CK17]. sub-long [WM17]. subadditive [YWO07]. subalgebra
[Ake83, BTVO7, CW11b, CX12, CW12, GLT13, LZO9, LCL13, Liu16b, Ous15a,
SP11, WOW09, YW11, WL16a]. subclass
[RH11a, RH11b]. Subclasses [Dra18b]. Subconstituents
[GWZ14, GWZ16]. subdefinite [ND13]. Subdirect [LLGL16, LMLL17].
subdiscriminants [Dom14]. subdivision [CMM17, Che18, DP17, LPH17].
subdivision-coronas [DP17]. subdivision-edge [LPH17].
subdivision-vertex [LPH17]. subdominant [Kir09]. subgraph
[AAT17, FG06, HW88, LS09, ZWL15]. subgroup [MS16b, Sur98, Wan16a].
subgroup-relation [Wan16a]. Subgroups
[LLT93, Sch79, Chu84a, Da 88, Den05, GL97, Hua90, Les93]. subject
[Wan15, YqS16]. Submajorization [Han17, BCK15]. Submatrices
[LP03, Cho82, Cra09, De 82a, FJMO0, Fie81, GKV89, HS87, HK17, Joh84,
Loh87, MN96, NTU93, SP87, Tho92b, Zab89, dO75]. submatrix
[DS09, ZHZ11]. submultiplicative [Kra05, Kra06]. submultiplicativity
[HJ87, Jin90a, Jin92, J00, Mer78a]. submultiplicity [BB15a]. Subnorms
[GGL03, GL01, Gol07]. Subpermanents
[Min75, HM95, MM90, Mal91, Vrb86]. subrings [MP87b]. subsequences
subset \[\text{ACJ17} \]. \subset \[\text{Bal79a} \]. \subset \text{MO13} \]. \text{Subspace} \[\text{Pat77}, \text{Das18}, \text{GP06}, \text{YW10} \]. \text{subsets} \[\text{BR04}, \text{CD01}, \text{Gal08}, \text{haYsS99}, \text{BG86}, \text{CDJ13}, \text{CLR81}, \text{CHK00}, \text{CS95}, \text{CF15}, \text{Dat16}, \text{Far94}, \text{GQ06}, \text{JS94}, \text{JP15b}, \text{KMOE12}, \text{MRRR09}, \text{Pat77}, \text{Pat84}, \text{Rod81}, \text{ySpW14}, \text{Tam98}, \text{WG91b}, \text{XFG14}, \text{Zha13}, \text{dB16} \].

\text{substochastic} \[\text{CKP16}, \text{CK17}, \text{Gib92}, \text{Har84b} \].

\text{subtractivity} \[\text{Zha05} \].

\text{subunitary} \[\text{ZYL13} \].

\text{subvarieties} \[\text{GP15} \]. such \[\text{Fan92} \].

\text{Sufficient} \[\text{CHQ18}, \text{CC98}, \text{EOvdD09a}, \text{EOvdD09b}, \text{AW07}, \text{HB83}, \text{Pat79}, \text{Pat84}, \text{Kar83}, \text{Kur04}, \text{Lew96}, \text{LSD095}, \text{LLG16}, \text{MLL17}, \text{MRT12}, \text{PH15}, \text{dSP17}, \text{RR12}, \text{RRc85}, \text{Ric87a}, \text{Tt12}, \text{Tt80}, \text{Tho92c}, \text{Tia05a}, \text{Wan76}, \text{dP74}, \text{vR11} \].

\text{Super} \[\text{CPT15}, \text{FD17}, \text{AA12}, \text{M17}, \text{Mit10} \]. \text{super-additivity} \[\text{AA12} \].

\text{Super-biderivations} \[\text{FD17} \]. \text{superalgebra} \[\text{CPT15}, \text{DH18}, \text{GM12} \].

\text{Superalgebras} \[\text{BR04}, \text{CD01}, \text{Gal08}, \text{haYsS99}, \text{BG86}, \text{CDJ13}, \text{CLR81}, \text{CLR82}, \text{CLR83}, \text{Tam98}, \text{WG91b}, \text{XFG14}, \text{Zha13}, \text{dB16} \].

\text{sum-of-squares} \[\text{Caf13} \]. \text{summation} \[\text{IW95} \]. \text{summing} \[\text{AP17}, \text{BMP10}, \text{BPR14}, \text{Cam14}, \text{PR12}, \text{PSS15}, \text{RSP17} \].

\text{Sums} \[\text{BC17}, \text{BCKP10}, \text{Bur11}, \text{DRW93}, \text{Si90}, \text{Slo16b}, \text{Tho86c}, \text{Bal79b}, \text{BHK10}, \text{De 90}, \text{De 78}, \text{DHS95}, \text{FV97}, \text{Go92}, \text{GK77}, \text{HO17}, \text{Kar83}, \text{Kur04}, \text{Lew96}, \text{LSD095}, \text{LLG16}, \text{MLL17}, \text{MRT12}, \text{PH15}, \text{dSP17}, \text{RR12}, \text{RRc85}, \text{Ric87a}, \text{Tt12}, \text{Tt80}, \text{Tho92c}, \text{Tia05a}, \text{Wan76}, \text{dP74}, \text{vR11} \].

\text{Super} \[\text{CPT15}, \text{FD17}, \text{AA12}, \text{M17}, \text{Mit10} \]. \text{super-additivity} \[\text{AA12} \].

\text{Super-biderivations} \[\text{FD17} \]. \text{superalgebra} \[\text{CPT15}, \text{DH18}, \text{GM12} \].

\text{Superalgebras} \[\text{BR04}, \text{CD01}, \text{Gal08}, \text{haYsS99}, \text{BG86}, \text{CDJ13}, \text{CLR81}, \text{CLR82}, \text{CLR83}, \text{Tam98}, \text{WG91b}, \text{XFG14}, \text{Zha13}, \text{dB16} \].

\text{supercommuting} \[\text{HDJ97} \]. \text{superderivations} \[\text{Wan16c} \].

\text{supereigenvectors} \[\text{IWW15} \]. \text{superinvolution} \[\text{LR13} \]. \text{superoperators} \[\text{JP15b} \]. \text{Super-optimal} \[\text{DS02a} \]. \text{supertropical} \[\text{IKR12} \].

\text{support} \[\text{WZD16} \]. \text{supported} \[\text{HMO11} \]. \text{surfaces} \[\text{FYIS13} \]. \text{Surjective} \[\text{Cos14} \].

\text{survey} \[\text{Ano92g}, \text{BL92}, \text{CR90}, \text{Far93a}, \text{KS17b}, \text{Mer95} \]. \text{switch} \[\text{GKT97} \].

\text{switch-setting} \[\text{GKT97} \]. \text{Sylvester} \[\text{Bar80}, \text{Bed11}, \text{BS17d}, \text{DH11}, \text{GPM98}, \text{HKT15}, \text{HK17}, \text{KM17}, \text{Lei83}, \text{SWL13} \].

\text{Sylvester-like} \[\text{KM17} \]. \text{Sylvester-transpose} \[\text{BS17d} \]. \text{Symboicis} \[\text{NT91} \].

\text{Symbols} \[\text{BS17c}, \text{BBM15}, \text{CA03}, \text{CD03}, \text{DS02b}, \text{GR81}, \text{JT04}, \text{JMP17}, \text{LR96}, \text{Pat81}, \text{Pie85}, \text{Zha04b}, \text{All14}, \text{Bal14}, \text{Bal18}, \text{BL97}, \text{BS16}, \text{BS17b}, \text{Ben90}, \text{Ben11}, \text{Ben74}, \text{BHT4}, \text{BB75}, \text{BB15b}, \text{BSLV12}, \text{CL85}, \text{CL92}, \text{Che91}, \text{CT09}, \text{CLNT17}, \text{CLN13}, \text{Co96}, \text{CW93}, \text{DHI11}, \text{Deu80}, \text{Dok75}, \text{DRL91}, \text{Fan73}, \text{FJ15}, \text{Fit94}, \text{For87}, \text{GS06}, \text{Gib76}, \text{Gon17}, \text{HHC12}, \text{HWL92}, \text{JKB17}, \text{JR09}, \text{KKR12}, \text{KN81}, \text{LR13}, \text{Lei95b}, \text{Li87b}, \text{fLLyP15}, \text{LM95}, \text{LLL09}, \text{LL10a}, \text{Lim79a}, \text{Lim90a}, \text{Lim92b}, \text{Lim92c}, \text{Lim97}, \text{Lim10}, \text{LTT14}, \text{Liu92}, \text{Tt12}, \text{Tt80}, \text{Tho92c}, \text{Tia05a}, \text{Wan76}, \text{dP74}, \text{vR11} \].

\text{symmetric} \[\text{SvW14}, \text{Til77}, \text{Tre87}, \text{Uhl79}, \text{Wag87}, \text{Wim85}, \text{Zha05} \].

\text{symmetric-indecomposable} \[\text{BB15b} \]. \text{symmetries} \[\text{HWSH13} \].

\text{Symmetrization} \[\text{HO17} \]. \text{symmetrize} \[\text{Pat90} \]. \text{symmetrized}
symmetrizers  

\[ \text{[CdS03, Uhl13].} \]

Symmetry  

\[ \text{[DF95, HT92, HK16b, MS08, MR74, Wil81, Cha78, CL86a, CL86b, CL13, DP00, Der83, Fin92, Hil76, HK13, Jin17, Jun88, KCBR87, Lim76a, Lim76b, Lim82, Lim90b, MC82, MC86, MM76, Mer78c, Mer79c, Pat95, Rob77b, yT86, WG91a, WG91b].} \]

symmetry-antisymmetry  

\[ \text{[Pat95].} \]

Symplectic  

\[ \text{[BB17c, DP09, Den05, Don91, FP17, LYS15, Mal92, MMRR09, New75].} \]

system  

\[ \text{[DH11, FHW16, HW14, HM18, KO10, Lop18, Ned98, Pop17, SPKC15, Sti87].} \]

Systems  

\[ \text{[Gib89, JR93a, KS02, KT83, Lev74, BC83, Cam83, CJ12, CF15, DPP17, DH86, Din00, Doo16, EKO14, GR93c, Hai92a, Hai92b, HMAD13, HW15, HRT15, Hla17, JS84, JR93b, JSY14, KP11, LF15, Lia80, Lop11a, MC17, NT91, Roh91a, ST86, Sin83, ST97b, Wer84, WW80, XLL15, XJW17, YqS16].} \]

\[ T \in [Ano16b, Slo13c]. \]

\[ T \in \text{AB [AP74].} \]

\[ T \in \text{AB-BA [AP74].} \]

\[ \text{tableaux [Ber86, Chu90, CPT15, Don91, KW92, KW93, Mal95, Rem82].} \]

tails  

\[ \text{[Gol16]. \quad \text{Takagi [HZ12]. \quad \text{taken [Odo83]. \quad \text{tangent [BB13, Til77].} \quad \text{Tauisky [JZ95, Jol90, Sch77]. \quad \text{Tauisky-Todd [Sch77]. \quad \text{team [KS93]. \quad \text{technique [FN14]. \quad \text{Techniques [BT17, Whi75, Whi79].} \quad \text{Tensor [BB13, Pat92, Wil73, Wil99, Bal14, Bal18, Bar76, Boa13, Bre16, CL85, CL83, CQW16, CKL16, Der16, Der18, Din15b, DH16, FHL+14, Fow80, Fri82b, GWW15, Gil16, Ho95, HT12, HWHS13, Kru06, LL16a, Lee94, Lei18, LN14, LZZ17, fLLL+17, Lim92a, Lim15, MC80, MS88, Mar11, McF79b, McF79a, Mer78b, Neu74, Ng14, Nir11, Nor95, Nor08, Pat87, RSPT17, STME10, SWL13, Wes95, XJW17, YQ90, ZXF15].} \quad \text{Tensoring [Abd09].} \quad \text{Tensors [Lim01, MR74, BD97, BM17a, Cha78, CL95, CCLN16, CPZ17, DP00, DF95, Dok75, Gau76, GR10, Hil76, HT92, HK13, HK16b, HQ14, Jin17, JKB17, Jun88, KSBM16, KJ13, LPZ13, L201, LL16b, LZZ16, LZT18, Lim76a, Lim82, Lim90b, Lim92b, Lim97, Lim10, MS08, MC78, Mar78, MC82, MC83, MC86, MC89, Mat11, MM76, Mer77, Mer78c, Mer79c, MSS18, Pat77, Pat90, Pat08, RS17, Rob77b, S3Q15, S3Q15, Sta14, Sta15b, SLH16, SLH18, SF17, SMS15, SZWB16, SZWB16, yT86, Wan82, WG91a, WG91b, WL616, WSZL17, XQ16a, dp74].} \quad \text{Term [KS12, BSL01, BS16, Hua01, Kom10]. \quad \text{terms [Bal14, CHQ18, Kir00, LL15, Pan13, zSqSZ16, ZBW16]. \quad \text{ternary [BX11, BP09]. \quad \text{Test [BC85]. \quad \text{th [LT91, LLS10, SSG12, yT86, vBW95].} \quad \text{Thanks [Ano10, Ano11b]. \quad \text{Their [SK03, AdFK15, ACJ17, BS15a, BS92, BS16, BS17b, BS17c, Che92, CL14, GKS01, GL16, GLS16, Hon93, Ilm16, KS15, KE82, Le198, Man91, MP90, MMRR16, Mia93b, Moh16a, MA15c, NS85, Nor08, Pow88, Ric81, SU77, SLUG04, Sin93, SL95, TT12, Tia11c, Tia18, TMOvdD93, Tur02, Uhl99, Zha97, ZBW16, ZY08]. \quad \text{Theorem [LMMR15, Mac09, Adk95, AM15, Aha76, Ari16, AY95, BK99, BK90, Bla77, Bun91, Chi11, CPLH17, De 75, Dok17, Els78, FW13, Fie73, Gar75a,} \]} \]
Theorems [Jun88, AEV12, AyT84, Bar07, BGLS07, CM84, EL09, FD12, GL85, GL16, Gut01, Hon91, Hsi78, Hua16, ISCS11, LRT91, Li96, LM98, LN16, LW17, MS81, ST86, Tan13b, XLL15, XFG14].

Theoretic [Dom14, Mou04].

Theoretical [Far17, Ari16, Cla92].

Theorists [Sch77].

Theory [Min83, Min87, Adu15, Atk91, BOvdD95, BL80, CdS03, CW81, CD85, FW73, Gar73, Gau76, Gor83, Joh82b, JSY14, KN81, Kri87, MMRR16, MN96, MA15c, PT10, Sch77, SQH15, Ste82, Tho90, WW76, Whi79, Wis12, XQ16a].

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Trace [BF15, Epk89b, Epk89a, GR14, Gur98, Kov77, Kru06, Lew96, MP13b, AW07, AST07, Car06, Cho18, Dra16, Ebe80, Gal79, Gei78, Kap77, Man78, Reg87b, Rem88, Rev81, Rob77a, Rom07, SQH15, SW81, Tik98, YSK15, ZY13, ZY16, ZBW16].

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Traced [RSPT17]. traceless [LT14]. traces [Fra13, LWWXF15, Wan16d, XWF15].

tracial [Man17]. tragedy [Die79].

trans [HWSH13]. transfer [CG16, PB17]. transference [FP17].

transform [AL78, JLL07, Loc73, RS08b, ST08]. transformation [BG82, CS10, CR77, Dia90b, EII93, GAGM18, Lim76a, LIM10, Rob75].

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Anh:2016:ISR


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Alnajjar:2013:BTL


Cai:2017:QWM


Adhikari:2013:VSL


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Aron:2000:ZRP

An:2010:CJD

An:2013:CDR

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Anderson:1985:ELG

Azenhas:1990:MRL

Ahmad:2013:BEE

Agore:2015:ITM

Amitsur:1980:CPS

Amiraslani:2011:NLF

Adam:2002:NRR
Amparan:2013:SIP


Akbari:2014:SRI


An:2018:CJH


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Ando:1980:IM


Ando:1996:QOP


Ando:2004:ATC


73
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Anonymous:1980:EBc


Anonymous:1980:EBd


Anonymous:1980:EBe


Anonymous:1981:EBa


Anonymous:1981:EBb


Anonymous:1981:EBc


Anonymous:1981:EBd

Anonymous:1981:EBe


Anonymous:1982:EBa


Anonymous:1982:EBb


Anonymous:1982:EBc


Anonymous:1982:ENa


Anonymous:1982:ENb


Anonymous:1982:RPa


Anonymous:1982:RPb

Anonymous:1983:BR


Anonymous:1983:EBa


Anonymous:1983:EBb


Anonymous:1983:EBc


Anonymous:1983:EBd


Anonymous:1983:EBe


Anonymous:1983:EBf


Anonymous:1983:EBg


Anonymous:1984:EN

Anonymous:1984:RPa

Anonymous:1984:RPb

Anonymous:1985:EBa

Anonymous:1985:EBb

Anonymous:1985:EBc

Anonymous:1985:EBd

Anonymous:1985:EBe
Anonymous:1985:EBf


Anonymous:1985:RP


Anonymous:1986:EBa


Anonymous:1986:EBb


Anonymous:1986:EBc


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Anonymous:1986:RPb


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Anonymous:1987:EBb


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Anonymous:1987:EBd


Anonymous:1987:EBe


Anonymous:1987:EBf


Anonymous:1987:EBg


Anonymous:1988:EBa


Anonymous:1988:EBb


Anonymous:1990:EBf

Anonymous:1990:EBg

Anonymous:1990:EBh

Anonymous:1990:EBi

Anonymous:1991:EBa

Anonymous:1991:EBb

Anonymous:1991:EBc

Anonymous:1991:EBd


Anonymous:1992:EBf


Anonymous:1992:SLP


Anonymous:1993:EBa


Anonymous:1993:EBb


Anonymous:1993:EBc


Anonymous:1993:EBd


Anonymous:1993:EBe


Anonymous:1993:EBf

Anonymous:1993:EBg


Anonymous:1993:EBh


Anonymous:1994:EBa


Anonymous:1994:EBb


Anonymous:1994:EBc


Anonymous:1994:EBd


Anonymous:1994:EBe


Anonymous:1995:EBa

Anonymous:1995:EBb


Anonymous:1995:EBc


Anonymous:1995:EBd


Anonymous:1995:EBe


Anonymous:1995:EBf


Anonymous:1995:EBg


Anonymous:1996:EBa


Anonymous:1996:EBb


Anonymous:1999:EBd


Anonymous:2000:EBa


Anonymous:2000:EBb


Anonymous:2000:EBc


Anonymous:2000:EBd


Anonymous:2000:EBe


Anonymous:2000:EBf


Anonymous:2001:EBa


Anonymous:2012:EB


Anonymous:2012:LR


Anonymous:2013:EB


Anonymous:2014:EB


Anonymous:2015:EB


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Ballico:2013:TRT


Biagi:2014:CCB


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182


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Pazzis:2011:SMS


Pazzis:2012:SMS


Pazzis:2016:PSM


Pazzis:2016:QRC


Pazzis:2017:NST


Eldred:2012:NRC


Engel:1973:IDP


Engel:1976:HFI


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208
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[White:1974:LMA]


[White:1975:MET]


[White:1979:MTP]


Williamson:1993:CFC


Williamson:1999:SBT


Wimmer:1985:WMI


Wimmer:1988:FGB


Wisbauer:2012:CSM


Witowicz:2011:DMM


Wang:2016:MPL


Chi Song Wong and Joseph C. Masaro. A-optimal design matrices $X = (x_{ij})_{N \times n}$ with $x_{ij} = -1, 0, 1$. *Linear and Multilinear Algebra*, 15(1):23–46, 1984. CODEN LNMLAZ. ISSN 0308-1087 (print), 1563-5139 (electronic).


Xing:2016:SLD

Xing:2014:DSL

Yaqub:1980:BR

Yu:1996:GSN

Yan:2014:CTS

Ye:2011:KIS

Yu:2015:MIO
Yopp:2005:EEF


Yu:2014:EPT


Yu:2013:BSR


Yizheng:2002:SIV


Yizheng:2003:SIV


Yuan:2011:LSS


Yeng:1990:DPT


Yu:1996:NNM


Yu:2014:SMS


Yuanwu:1998:NRC


Yuzvinsky:1984:SMP


Yu:2005:GIC


Yu:2009:DRG


Yongfeng:2010:DLD

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Authors</th>
<th>Journal</th>
<th>Volume</th>
<th>Issue</th>
<th>Pages</th>
<th>CODEN</th>
<th>ISSN</th>
</tr>
</thead>
<tbody>
<tr>
<td>[YZ16]</td>
<td>Compute $\lim_{\lambda \to 0} X(\lambda I_p + YAX)^{-1} Y$ by the product singular value decomposition</td>
<td>Yongxin Yuan and Kezheng Zuo</td>
<td>Linear Multilinear Algebra, 64(2):269–278, 2016</td>
<td>64</td>
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<td>269–278</td>
<td>LNMLAZ</td>
<td>0308-1087(print), 1563-5139(electronic)</td>
</tr>
</tbody>
</table>


Zhu:2017:ROL


Zhang:2012:IPM


Zelmanowitz:1975:IMA


Zellini:1985:ACP


Zelmanowitz:1978:BR


Zhang:2017:RNE


Zhou:2008:CBO

Zhang:2011:CMD


Zhang:1989:NHP


Zhang:1992:RP


Zhan:1995:QPR


Zhan:2000:SRP


Zhan:2001:SOO


Zhan:2001:EWI


Zhang:2015:MDA


Zhang:2015:FER


Zhang:2015:CDL


Zhang:2016:NSJ


Zhang:2016:NPD


Zhang:2009:MPN


Zhang:2013:SSA


[ZX10] Bing Zheng and Zhi-Ping Xiong. The reverse order laws for \( f_1, f_2, f_3 \) and \( f_1, f_2, f_4 \)-inverses of multiple matrix products. *Linear Multilinear Algebra*, 58(6):765–782, 2010. CODEN LNMLAZ. ISSN 0308-1087 (print), 1563-5139 (electronic).


