

A Complete Bibliography of Publications in *Linear Algebra and its Applications*: 1980–1989

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Title word cross-reference

#3162 [Sta81].

(0, 1) [BFP88, BH85, CS89b, LN80, MSS89, Min85, Min87b, PS88, SS86].
($2^m, 2^m - 4$) [KL88a]. (A_1) [Ber87]. (F, G) [Emr83]. (H, F) [Özg86]. (p, q)
[LTT83, LTT88]. (S) [Wan86]. (s, t) [JP82]. (T) [Wan86]. $(\text{tr} A^p)^{1/p}$ [Mag87].
 $(x - \alpha)(x - \alpha^2)(x - \alpha^3)$ [KL88a]. $(YA - DZ, YC - BZ) = (E, F)$ [wEC87b].
+ [Sil87b]. -2 [KRS82, Tor86a]. 0 [Fri85a]. $\{0, \pm 1\}$ [Fuj84]. 1
[BP84a, CR86, Fri85a, RB89]. 2 [BN89, ELS82a, RW89, Ver84, HLG85]. $2 + 5$
[BN89]. 27 [RS86a]. 2^n [Giv84, YH82]. 2×2 [Tho82b, Uhl81a, Uhl83]. 3
[AL80, Bix82]. 3×3 [Piz83, AO82]. $*$ [dOdS83]. ${}^2A_{2d-1}(p^f)$ [IS89]. A
[BG82, Web86]. $A(\lambda) = A_0\lambda^t + A_1\lambda^{t-1} + \dots + A_{t-1}\lambda + A_t$ [BZ89]. $A > 0$
[Sha86a]. $A^k b$ [CLS87]. $A^m = dl + \lambda J$ [Ma84]. $A^m = \lambda J$ [MW87a]. AB
[Sha86a]. $A \circ A^{-1} \geq I$ [BK87]. $AX + YB = C$ [Zie85]. $AX - XB = C$
[LLT84, dSB81b]. $AX = B$ [Uhl87, JUW82, dSB81a]. $AX = C$ [Mit84].
 $Ax = \lambda Bx$ [BG82, LS87, LM80]. $AXB + CYD = E$ [BK80b].

$AXB - CXD = E$ [wEC87b, HG89]. B [BG82]. $B > 0$ [Sha86a]. c [Beb86, LT83b, LT88b, BP85, GS82, GS83a, Tsi84]. C^* [Gro82, LP81]. c^2 [vB85]. C^n [Hol85]. \mathcal{H} [Yan84]. d [DG87, BH84, Cai84, Har80, Tog80]. D_1AD_2 [Bap82]. ΔH [Gab87]. $d \geq 3$ [IS89]. dn [KP80]. e [Fri88, Sta87]. $E(t)$ [Eva87]. ℓ_1 [dC87]. ℓ_∞ [Flo82]. ℓ_p [Gol86a, GS83b, Gol84]. $F(x) + M(x)G(1/x) = 0$ [Ng87]. $F(X) + M(X)G(X^{-1}) = 0$ [Eba89]. G [NT80, MW87a, Che83d, GW85, Mar81a]. Γ [OH85]. $GF(2^m)$ [KL88a]. H [ABO88, FH88a, HS85, LP82a, NV84, Neu86, Pol87, Tad81]. H^∞ [LA88, LST88]. HR [BG82, BG81b]. H^∞ [JJS89]. K [Yua86, Bea83, Bea88, BL89a, Pif87]. K^n [Eba89]. K_1 [VM87, Bro89b]. l^p [Dru87]. $l_1(\Gamma)$ [Pol86]. L_2 [Tad81]. $\Lambda^k \mathbf{R}^n$ [Mor85]. $\leq n$ [HHM89]. LP [Naz84]. LU [ABO88, Meh84c, Mur83, OS89, FP81, GMSW87]. M [Joh82a, Lew89a, Ste81b, Zha87b, Wol89a, AS82, BS87a, EP88, FMN83, FJMN85, FJM87, FM88b, FM88a, FHV85, FP81, HRS88, HS88a, Ima83, Ima84, JORvdD87, KR83, KB85, LN80, Li89, LP80, Meh84b, MNR84, Neu86, Neu81b, NP87, Sch84a, Smi87, ST87a, Szu89a, dG82]. $M_n(\mathbf{Z}/h)$ [Har81b]. $M \geq B^*MB$ [BKK83]. MMA [Fie88b]. $m \times n \times (mn - q)$ [Bin86]. n [AN83, Bou88, KP80, KS84, Tak85, TST86, Wer85a, Joh82b]. N_0 [Joh85, Smi86]. $N \times N$ [GT89a]. $O(m^2)$ [Kle87]. $O(N^2)$ [GT89a]. $O^+(V)$ [KN87b]. ω [HB84, HM86]. P [BG84a, Fan89, HJ86d, Tho85, VNC84, WN87, HB83, HJ86c]. $P(t)$ [Eva87]. \mathbf{P}_k^3 [Bre84]. P_0 [Fan89, RM85, HB83]. $\text{Per}(J_2 \otimes M) \geq 2^n [\text{Per}(M)]^2$ [Pat88a]. Ψ [OH85]. $p \times p$ [Tau85]. Q [JP84, RCS89, CvRS81, Mor88]. QD [Ker83]. QL [Zha89, JZ85]. QR [Cha87a, HS86b, BG86, Dem89, Fai89]. r [GB87, Gov89b, Wer87]. R^3 [PL88]. R^n [MLS83, KL87, MLS87, MLS88]. S [Kle87, DSD88, Wat87a, Fie84c]. Σ [GVK⁺83]. $Sx^+ - Tx^- = y$ [KL87]. t [BF82, DS89a, Eva87, RCS89, Wil82b, Hal86b]. $T(H^{1/n}T)^n = K$ [Fur88]. $\{t^i e^{\lambda_k t}\}$ [Har82]. τ [HB84, HM86]. V [Meh84c]. W [JP88a, TW80]. W^* [Had86, Brü84d]. x [GR89a]. $X - AXB = C$ [Wim88, LLT84]. $XA + BX + C = 0$ [Mil88]. $XA - BX = R$ [Dat88]. $XA = A^T X$ [DD87b]. $XAX^{-1} + B$ [Sil86]. $XB = D$ [Mit84]. y [GR89a]. Z [HS88b, Smi88, HS88a, Ram86]. $\mathbf{Z}/p\mathbf{Z}$ [Wat88b]. Z_p [Str87]. Z_q [Jun89]. ZME [Stu88a]. $|D(X^k)| = |kX^{k-1}|$ [Sun82b].

-adic [Tho85]. **-algebra** [Had86]. **-algebras** [Brü84d, Gro82]. **-analogues** [RCS89]. **-circulant** [MW87a]. **-circulants** [Min85, Min87b]. **-classes** [Yan84]. **-connectivity** [Bix82]. **-convexity** [LP81]. **-cyclic** [ELS82a, VNC84]. **-D** [RW89]. **-decomposition** [Mur83]. **-designs** [DS89a, RCS89, Wil82b]. **-dimensional** [DG87]. **-frames** [KS84]. **-functions** [Che83d, NT80]. **-Hessenberg** [Pif87]. **-ideals** [Hal86b]. **-invariant** [Özg86, Emr83]. **-inverse** [HLG85]. **-irreducible** [TW80]. **-like** [BG86]. **-linear** [Bou88]. **-lossless** [GVK⁺83]. **-majorization** [GW85]. **-matrices** [AS82, BP85, BS87a, BH85, CvRS81, EP88, FMN83, Fie84c, FJMN85, FJM87, FM88b, FHV85, FP81, Gab87, HB83, HB84, HS85, HJ86c, HM86,

HRS88, HS88a, Ima83, Joh82b, KR83, KB85, LN80, LP80, Meh84b, MNR84, NV84, Neu86, Neu81b, NP87, Pol87, RM85, Ram86, SS86, Smi86, ST87a, Stu88a, Szu89a, ABO88, BG84a, Fan89, Fie88b, JP84, Joh82a, Joh85, Kle87, Lew89a, Meh84c, Smi88, Ste81b, Zha87b]. **-matrix** [FM88a, Ima84, JORvdD87, LN80, Li89, Mor88, Sch84a, Smi87, dG82, dOdS83, HJ86d, HS88b]. **-monotonicity** [Wer87]. **-networks** [vB85]. **-norm** [dC87]. **-numerical** [Beb86, GS82, GS83a, LTT83, LTT88, Tsi84]. **-potent** [JP82]. **-preservers** [Bea83]. **-proper** [Web86]. **-reguli** [BF82]. **-selfadjoint** [LP82a]. **-special** [LT83b]. **-spectral** [LT88b]. **-splittings** [Sch84a]. **-stability** [Tad81, Tog80]. **-stable** [BH84, Cai84, Har80]. **-structure** [RB89]. **-symmetric** [Wat87a]. **-tensors** [AL80]. **-Toeplitz** [GB87, Gov89b]. **-type** [Fai89]. **-unitary** [FH88a]. **-way** [Tak85].

100 [Ano88a, BS89]. **1968/1988** [Ano88a, BS89]. **1978** [Ple81]. **1980** [BP81]. **1981-1984** [Ano84i]. **1983** [BU84]. **1984** [GL85a, Hol85, Lew85b]. **1984-1986** [Ano86n]. **1987** [BU88].

20 [Ano88a, Sta81]. **23** [BKR80]. **2D** [BFM89b, BFM89a].

30 [Cai82]. **30-41** [Ano88-28]. **3rd** [Gov89a].

41-56 [AB85]. **41-60** [Ano84i]. **42-54** [Ano88-28].

57 [Sta81].

61-80 [Ano86n].

70 [Sha89]. **70th** [FL89b]. **75th** [Ano85s, EH85].

80b [BKR80]. **82c** [Cai82]. **86m** [Sha89]. **89h** [BS89].

Abelian [Bai85, BM82, EKC85, Kob85, Wim87]. **abéliens** [EKC85]. **Abraham** [Bar81a]. **absolute** [Kit89]. **accelerate** [Hug85]. **accelerated** [HY80]. **Accelerating** [EN89]. **Acceleration** [CM82, YJ80]. **acceptance** [Bon85]. **accounting** [Zen89]. **Accuracy** [Pai80, Sco85]. **accurate** [dG82]. **acyclic** [BH84, Dua89, Her86]. **Adaptive** [Pol89]. **Addendum** [Ano86a]. **addition** [Ma85a, Ma85b]. **additional** [ST88b]. **additive** [Rom86, SK84]. **adic** [Tho85]. **adjacency** [Bak87]. **adjoint** [Cro81, Hoc87, Mar84a]. **adjoints** [YB81]. **Adjustment** [GP80]. **admissibility** [BM89a]. **Admissible** [BM85]. **Advanced** [Cam84b]. **affine** [FH80, KL87, LP82b, Tch89]. **Aggregation** [CM82, MP80, MS83, Man84]. **agree** [Haa84]. **Albert** [Tho83a]. **Alefeld** [Ral86]. **Alexander** [Bru84c, Car85, Gau83b, SDGT81]. **Alfred** [HM84b]. **Algebra** [AB85, Ano81u, Ano81v, Ano83l, Ano84q, BV89, BS89, BKR80, Bun87, Cai82, Car85, For86, Gov89a, NdOH89, Pul87, Sha89, Sta81, dO83,

LAA68, Ano80n, Ano80o, Ano80p, Ano81p, Ano81q, Ano81r, Ano81s, Ano81t, Ano82n, Ano88-28, BBV88b, BF83, Bur86, BCS87, CW85, CMR81, CZ84, Dad87, DALSP89, Had86, MR84, Mor85, Neu82b, OR88, RWZ88, Tre85a, Zas83, Gov88a, Gov89a]. **Algebraic**

[DM82, Jód88a, Kra81, VV87b, Adk89, Ano80q, Ant83, AZ83, Bye87a, Chu88, Chu89, Cop81, Joh87, Ker83, KÖ85b, Lin87b, LPC89, RR84b, RV88, Sch83b, Sha86b, Tau80a, Tau80b, Uch86, VB88, Vas85, Wim84, Wim85a, Zim80].

Algebras

[Laf81a, AL89, Bar89b, Brü84d, BC85, Cos89, Far84, Fei84, Gam88b, Gro82, Gur85a, HG88, Hel87, Hig87b, Hol87, Isa80, Laf81b, Laf83b, Laf85a, Lei89b, Lew82, Mac89, MM89, MCCF85, MCCF89, Per86, Per88b, Per88a, Que87a, Ros84b, Sha87, SM88, Tan86, Tom85, Tow80, VM87, WB81, dGH82, Wat80].

algèbre [Tre85a]. **algèbres** [Hel87, MM89, MCCF85, MCCF89]. **Algorithm**

[APP88, Bai88, BV88, BG84b, CV87, O'L80a, Pai80, PV86, Sim84, dH87, ACHS89, Ant88, AS80, BN83, Boj86, BG81b, Dan89, DD87b, Giv82, Gow80, HM89b, Hu87, JZ85, JM89b, Kle87, Lin87a, O'L80b, Par80, Ram86, Saa86, She87b, Zha89]. **Algorithms** [Bun87, CS86b, Gam88b, JY86, SHW86, Woź80, AL86b, AFW81, BLAK89, DL89, EHL81, ER87, GKKL87, GM88b, Hen83, JY87, Ker83, Naz84, NM85, OS89, Pow87, Mon84]. **Allen** [Mon84].

Allowable [SS88]. **Almost**

[TvdW88, Vål89a, Adi82, CH83a, Rho89, RS86b, Sha83]. **Alston** [Ano80a].

alternate [CL82b]. **alternating** [GL84]. **alternative** [FH80, Man81].

always [Ogr88]. **among** [Vei86]. **analogies** [Beb86]. **analogue**

[GH87, Sun82b, Wim88]. **analogues** [AP83, AP88, RCS89]. **Analyses**

[GLN86b]. **Analysis** [APP88, Ano88-32, EL88, Kie87, OvdD88, Sim84, Woź80, AL86b, ACC88, Bjö87, Bro85b, BG81b, CD85, CLP82, Dry85,

FHV85, Joh88, Ker87, Man84, May88, May85, Neu81a, Neu84, Ric83, SS85, Sha85f, Sha89, ST88b, TvdW88, And87a]. **analytic** [Gor89]. **angles** [Cve88].

angularity [RC81]. **anisotropic** [Jam88, Jam83]. **annihilated** [How80].

Announcement [Ano81a, Ano82a]. **ANOVA** [Tak85]. **Anti**

[GS84, Sou86a, Wie85a]. **Anti-Hadamard** [GS84]. **Anti-invariant** [Sou86a].

anti-Morishima [Wie85a]. **Antieigenvalues** [Mir83]. **Antiinvariant**

[Sou86b]. **Antipodal** [Gar82a]. **antiprisms** [Bro85a]. **Any** [Nak84]. **anyway**

[Car86]. **Apollonian** [Wil82a]. **appear** [Wie85c]. **Appl**

[AB85, BS89, BKR80, Cai82, Sha89, Sta81]. **Application**

[MS80a, Mon84, BR89a, Chu84, Dio89, FT89b, FHV85, GR87, HF85, Hun82, SS86, Spi82, Ste85, TG87, Usm87]. **Applications**

[Bap86a, BV89, Har82, Jin88, Mar84b, NdOH89, Oko86a, Oko86b, RR84b, Rot81, AT80, LAA68, Ano82n, Ber86c, BF83, Bru88b, Cla88, Dah83, Dat84, Dat88, EHL81, Far87, FH88a, Gad88, GW85, GT82, HHM89, HLG85, Kön86, Lin89, MP82, Mne89, MG85, MM88, Özg86, Ran89, RY85b, Rei86, SH88, TC86, Uhl87, Vei82, VV86, Wer83, Wol81, Ano81u, Ano81v, Ano83l, Ano84q, Gai89, dO83, Bru84c, Gov89a, Ple83, Pul87, Tho83a, Bar87]. **Applied** [NdPV84, Sch84c, Hun82, Neu81a, NV84, Cam84c, Car85, Gov88a, Gov89a].

Approach [Chu86b, VV87c, BFM89b, BFM89a, Dio89, GT89a, KGÖ83, LA88, Man82, MW84, Neu80, OM89, RY85a, Sha86b, Shr86, Wim89c].
approaches [Mal89, Mur89]. **Approximate** [Lip86, AP86, BS83, HW89, Zie87]. **Approximating** [Van84, HRR87].
Approximation [And85b, CM82, GHS87, Gro80b, HW88, Chu86a, Que83, Wei83, dBP82, dB84].
Approximations [Flo82, LR81, LM87, NS89]. **approximators** [Far85a].
arbitrary [BS82a, DGK83, Fia83, Har84b, Lei89a, Lin88, VD83, Won82b].
architecture [HTRG88]. **area** [Mor85]. **arising** [Acz85, GM89, MS86].
arithmetic [And83, HTRG88, Vas85].
arithmetic-geometric-harmonic-mean [And83]. **arithmetical** [Hel87].
arithmétiques [Hel87]. **Arnoldi** [Saa80]. **Aronszajn** [BF88]. **Array** [ES86, Luk86, Urs82]. **Arrays** [SHW86, DR80a, HT84]. **Aspects** [Ruh83, Cop81, KÖ85b, Tau82, VD83]. **Assignment** [KNC89, OS86, BR86, DM83b, KG89, Rys85, ST88a, SY89, Zab89].
associated [BJL89, BR86, Che83d, DD87b, Dad87, FM81, Hun88, Ish87, McD80, Mer80b, Sai88, ST88a, Stu87, TW89, Tur85, Uch86, WE89, Wie85a, Wim83a, vB85].
association [Ban82, Bie84, IS89]. **assumptions** [BN88]. **Asymmetric** [BJ86, Sch86c]. **Asymptotic** [Lin89, RS86b, Sza85, BS86b, May87, Nel85].
Asymptotically [BA80]. **Asymptotics** [Bas85]. **asynchronous** [Lei89a].
Athens [AL86a]. **Auflösbarkeit** [Nic82]. **August** [AL86a]. **Author** [Ano80b, Ano80c, Ano80d, Ano80e, Ano80f, Ano80g, Ano81b, Ano81d, Ano81e, Ano81f, Ano81g, Ano81h, Ano81c, Ano81i, Ano82b, Ano82c, Ano82d, Ano82e, Ano82f, Ano82g, Ano82h, Ano83b, Ano83c, Ano83d, Ano83e, Ano83f, Ano83a, Ano84a, Ano84b, Ano84c, Ano84d, Ano84e, Ano84i, Ano84f, Ano84g, Ano84h, Ano85a, Ano85b, Ano85c, Ano85d, Ano85e, Ano85f, Ano85g, Ano85h, Ano85i, Ano86b, Ano86c, Ano86d, Ano86e, Ano86f, Ano86g, Ano86h, Ano86i, Ano86n, Ano86j, Ano86k, Ano86l, Ano86m, Ano87j, Ano87a, Ano87k, Ano87b, Ano87c, Ano87d, Ano87e, Ano87f, Ano87g, Ano87h, Ano87i, Ano88b, Ano88m, Ano88n, Ano88c, Ano88d, Ano88e, Ano88f, Ano88g, Ano88h, Ano88i, Ano88j, Ano88k, Ano88l, Ano89a, Ano89b]. **Author** [Ano89c, Ano89d, Ano89e, Ano89f, Ano89j, Ano89g, Ano89h, Ano89i].
automata [Cob86, Rob80a]. **automates** [Rob80a]. **automatically** [Hug85].
Automorphism [Bar89b]. **Automorphisms** [Isa80, CS89a, Dam80, Per86, Per88b, SM88]. **Auxiliary** [DS82]. **Average** [WWWS86, ER89]. **average-cost** [ER89]. **Avoiding** [Sco86]. **award** [Ano80a]. **Axelsson** [Bea85]. **Axis** [RO89, BS83].
B [Bas85, Cam81, Cam84d, Gov89a, Sil87b]. **Balanced** [Gre88, OM89, DR80a]. **balancing** [Zen89]. **Banach** [Bur86, Ste86, Tre85a, VM87]. **band** [BAEGL87, BK81b, BC83, Ded88, Dub85, DG81, FG80, Hal80, MH81, Mee83, Tis87, Tre85b, Usm87, dBP82].
Banded

[SS87a, BF81a, Bar84b, CDMS81, Che83a, EP88, Pif87, Rom86, dBP82].
bandstructure [Lás80]. **bandstructure-invariant** [Lás80]. **baric**
 [Per86, Per88b]. **Barnes** [SW85]. **Barnett** [Cam84e]. **Bart** [Lan81]. **Bartels**
 [Pow87]. **based** [BFM89a, CW80, DGK80, Kam89, LA89, LVWC88, Naz84].
bases [BI88, BH81b, LP82a, Lem88, Mer81b, Whi80]. **Basilevsky** [Car85].
basis [Bar80b]. **basis-exchange** [Bar80b]. **Bauer** [Li88b]. **Baxter** [Fai89].
Bayesian [CD85]. **BC** [OvdD88]. **be** [Gam88a, MS85]. **behaved** [Ogr88].
Behavior [Gre89, AZ83, Naz84, Rob83, vV87a]. **behind** [Wat88b].
belonging [Rot89a]. **Bergman** [Gha87]. **Berlekamp** [JM89b]. **Berman**
 [Bar81a]. **Bernard** [For86]. **Bernhard** [Sch84c]. **Bernstein** [Cos89, MM89].
best [LR81, Mat85]. **Between**
 [VV87b, Bak86, Beb86, Bol85, BN89, Cri88, Djo81, Djo82, Gar82c, GH83,
 GR86, GA85, HR84, Her89, JE87, KS84, Krä87, LT83b, LT88b, MZ89,
 MFPW85, OP82, Pol89, Ran89, Ste81a, Tan86, Tau85, Uhl81b, Uhl83, WB81].
Bézier [GM88b]. **Bézout** [BS88a, Fie88a, FP88, Hel89, Ptá84c]. **Bézoutian**
 [LT88a, SA89, PW85]. **Bézoutians**
 [FP87a, FD89, HF89, Ptá84a, Ptá84b, Wim89a, Wim89b]. **bi** [dBJP82].
biadditive [Ng87]. **Bidiagonal** [Chu86b, HI86]. **bidirected** [Hur89]. **biflag**
 [HS87]. **bigger** [Jam81]. **biinfinite** [SW84]. **bijections** [KL87]. **bilinear**
 [AFW81, Fan85, FH80, Gow81, LN89, Moo82, Tsi84, Wat87b]. **bimatrix**
 [CMO89]. **binary** [Cun82, Eli88, GT89b, KK89, KL88a]. **Binet**
 [HCR88, Nis88]. **binomial** [Str87, Wat88b]. **Binyamin** [FL89b].
Biorthogonal [Ptá83a]. **Bipartite** [GLN84, Ito82, Rot89a].
bireflectionality [Nie87]. **Birkhoff** [BS82a, FSZ85, SSZ83]. **birthday**
 [Ano85s, EH85, FL89b, Gau83b]. **bit** [Eli88]. **Biunitarily** [GS89]. **bivariate**
 [GM89]. **Block** [AC89, BCR88, CS86b, Els84a, Fre87, NdPV84, O'L80a,
 SHW86, Vit82, Wat80, ABI84, AP86, Axe86, Bhi88, BF89, ELS82a, Eli88,
 EGL85, FH88b, Gor89, GP89, HPS83, HPS88, HI86, HRS89, KK86, Laf81c,
 Pol87, RCA88, SH88, Tis87, Wei89b, Wim89b, Woe89]. **Block-iterative**
 [AC89]. **block-matrix** [ABI84, Axe86]. **block-Toeplitz** [Tis87]. **blocks**
 [Cai81, dO82]. **blockwise** [Pol87]. **BLU** [Wer85b]. **board**
 [Ano80k, Ano81o, Ano81n, Ano86s, Ano88-30, Ano89s, Ano80h, Ano80i,
 Ano80j, Ano80l, Ano80m, Ano81j, Ano81k, Ano81l, Ano81m, Ano82i, Ano82j,
 Ano82k, Ano82l, Ano82m, Ano83g, Ano83h, Ano83i, Ano83j, Ano83k, Ano84j,
 Ano84k, Ano84l, Ano84m, Ano84n, Ano84o, Ano84p, Ano85k, Ano85l, Ano85m,
 Ano85n, Ano85o, Ano85p, Ano85q, Ano85r, Ano86o, Ano86p, Ano86q, Ano86r,
 Ano86t, Ano86u, Ano87l, Ano87m, Ano87n, Ano87o, Ano87p, Ano87q, Ano87r,
 Ano88q, Ano88r, Ano88s, Ano88t, Ano88u, Ano88v, Ano88w, Ano88x, Ano88y,
 Ano88z, Ano89k, Ano89l, Ano89m, Ano89n, Ano89o, Ano89p, Ano89q, Ano89r].
Boas [Bea87a]. **Book** [Ano88o]. **Boolean**
 [BP84a, BN83, CZ84, MR84, RR82, SL87, dCG81, Ple83]. **Boolean-rank**
 [BP84a]. **Boolean-rank-preserving** [BP84a]. **Border** [Bin86]. **bordered**
 [Nom80]. **Bose** [Cam84c, Son87]. **Böttcher** [Bas85]. **bottleneck**
 [BCS87, Sco86]. **Bound** [Els85, PNO85, Bap86b, DEHS84a, DEHS84b, Joh89,

Jon84, Neu81b, Ron82, Sta87, Szu88, Szu89b, Tao84, You81a, Yua88, dG82].
Boundary [Jód86, Jód87, Jód88b, MS86]. **bounded** [Dan88, ORV88].
bounding [Sco85]. **Bounds** [AL80, Fri88, GS87, HR84, LO81, Lew89b,
MSW83, O’L90, Pow89, Rot80, WS80a, BH81a, Bea84, Bea87b, Ben86,
Cao87b, Che83b, Con85, Ded88, Dem86a, DW83, JKW85, Lás82, Leó88,
Lew89c, LA88, MŽ83, MW85a, Pat88b, RT85, Sch86c, WS80b, Yua89].
Brauer [HM84b]. **Brenner** [Bea87a]. **Brewer** [Nau87]. **bridge** [AB87].
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Honoring [SDGT81]. **hook** [JP88b]. **Hopf** [GG82, GLR83]. **Horn** [And87a]. **Householder** [Ano80a, GL87, Kau87]. **hulls** [Sun82c]. **Hurwitz**

[Bos88, Byr83, Nav89]. **Hyperbolic** [APP88, DI86, Djo82]. **hyperboloids** [CW85]. **hyperplanes** [Jam81]. **hyperquadrics** [Djo81]. **hypothesis** [Roe86, Roe87].

I. [HH85]. **Iain** [Ple81]. **ideal** [PV82]. **ideals** [AK89, And85a, Hal86b, Pok85, Tau80b]. **ideas** [Dat89]. **idempotency** [Kha80]. **idempotent** [Kha83, Kha85]. **idempotents** [Laf81a, Laf89, SW85, Stu87]. **identical** [Tau83]. **Identifiability** [Sha85f, Sha89]. **identification** [LS85, Pol89, RWZ88]. **Identities** [Vei86, And85a, BPB88, BK86, Chu89, ET81, KW89b, MW85b, Ros80, Wat88a]. **identity** [Fan85, Lew85a, MG85, Son88, VJ84, Wat87b]. **if** [IS89]. **II** [BJ86, Bha81, Chi88, DEW80, DEHS84b, GLN86a, Gol84, Har84b, Hoc87, Jam83, Jam88, LT88b, MM89, MCCF85, Oko86b, RR84b, RR82, Roe87, SD80, Sha82a, Szu89b, Tam87d, Tom85, WH85a, dO82]. **II.** [LT83b]. **III** [BNV82, Dan86, GLN86b, MCCF89]. **III** [ES86, Sch86b]. **III-Conditioned** [ES86]. **ill-posed** [Sch86b]. **image** [Bro85b, EHL81]. **images** [Fia89]. **Imaginary** [Lás82]. **immanent** [GM87]. **immanants** [Gro85, JP88b]. **Immittance** [BLAK89]. **Immittance-** [BLAK89]. **implementation** [Boj86]. **Implicit** [GLN86a]. **Improved** [BV88]. **Improving** [KMV87, MW85a, Mil87]. **inadmissible** [PN85]. **Incidence** [Wil82b, BHK81, CS89a, Kes82]. **Incline** [Pul87]. **Incomplete** [Pol87, ABI84, Axe86, Rob82]. **Inconsistent** [Axe80, Ver82, Wan86, Zie85]. **increasing** [FK85]. **Indefinite** [Dat86, Wim83a, BK80c, GR87, Hes86, LN85, RU85]. **independence** [BCS87]. **Index** [Ano82b, Ano80b, Ano80c, Ano80d, Ano80e, Ano80f, Ano80g, Ano80r, Ano81b, Ano81d, Ano81e, Ano81f, Ano81g, Ano81h, Ano81c, Ano81i, Ano82c, Ano82d, Ano82e, Ano82f, Ano82g, Ano82h, Ano83b, Ano83c, Ano83d, Ano83e, Ano83f, Ano83a, Ano84a, Ano84b, Ano84c, Ano84d, Ano84e, Ano84i, Ano84f, Ano84g, Ano84h, Ano85a, Ano85b, Ano85c, Ano85d, Ano85e, Ano85f, Ano85g, Ano85h, Ano85i, Ano86b, Ano86c, Ano86d, Ano86e, Ano86f, Ano86g, Ano86h, Ano86i, Ano86n, Ano86j, Ano86k, Ano86l, Ano86m, Ano87j, Ano87a, Ano87k, Ano87b, Ano87c, Ano87d, Ano87e, Ano87f, Ano87g, Ano87h, Ano87i, Ano88b, Ano88m, Ano88n, Ano88c, Ano88d, Ano88e, Ano88f, Ano88g, Ano88h, Ano88i, Ano88j, Ano88k, Ano88l, Ano88a]. **index** [Ano89a, Ano89b, Ano89c, Ano89d, Ano89e, Ano89f, Ano89j, Ano89g, Ano89h, Ano89i, AR87, BS89, Cla88, Lip80, Row83, Row88, SL87, WN87]. **indices** [Avr89, Rot80]. **Induced** [Mer81b, Bye87b, CL82b, FB81b, MW81]. **industry** [CMR81]. **inefficiency** [Rao85]. **Inequalities** [Bap86c, Fan88, JP88b, MW85b, And83, AB87, Bap87, Bar89a, BK88a, CE82, Cha85, Che87, CFKK82, Coh88, DI85, DS89a, EJ89, Fuj84, HW89, JR81, JB85, KO85a, Mar88, Moh88, NT80, Oku87, Pat82, Sai87, Sai88, Sod87, Spi85, Spi87, Stu88a, Tho85, Tor86b, Wat87c, Zab88, Tho83a]. **inequality** [AT80, AP83, AP88, BKK83, BM89a, Bap86a, Cha87b, Dav80, FJMN85, FM88a, FK87, Fur89, GL88, GP89, GH87, GM87, KMV87, Kha83,

Lav80, MM80, MM81, MJ81, Meh84a, Olk83, Pat84, Pat87, Pat88a, Rao85, Sak85, Sty81, Tho83b, Wat88c]. **Inertia** [BAG89, BC87, Cai80, Cai82, LT83a, Uhl81b, Bin84, CM81a, Cai81, Car84, Dan86, DD87b, HF85, JMRT87, Mad88, Mar81b, RC81, Vål88b, WH85a, WH85c, Wim83b]. **inertial** [WH85b]. **inertias** [Dan87, Dan88]. **Infimum** [Mit88]. **Infinite** [Gre83a, Tor86a, Art86, Bol85, GM88a, HW89, Lin86, Moh82, MO87, Mü187, Ptá83a, Ptá86b, Sen80, SWR87, Stu88a, You83, dBJP82]. **infinity** [LPC89, Mee87]. **inflators** [Stu87]. **influence** [Sch86a]. **informal** [CMR81]. **Information** [Cha81, AN83, Bap86a, Bro85b]. **Ingram** [Tho83a]. **inheritance** [OS89]. **inhomogeneous** [CS82, IS82, MS87]. **initial** [MC81]. **Inner** [Wat88a, BWT89, Cri88, Dam80, RU85, Wim83a]. **inner-product** [Cri88, Wim83a]. **Input** [Wil83, CS87c, MK89]. **Input-output** [Wil83]. **inscribed** [MP89a]. **instability** [HG87, Tch89]. **Integer** [BHK81, AO82, Bak87, Cam89, DEHS84a, DEHS84b, Laf89, Wim87, Wim89d]. **integral** [Ash87, BH82, BV80, HK81, Har81b, Hur89, Koe85, Kön86, Rao83, Tau80b, Tau85]. **integrality** [Sch81b]. **integrals** [Poh89, Sai88]. **integration** [BS83, FHP80]. **intensive** [HM89b]. **interaction** [Tak85]. **interchange** [BL82b]. **interchanges** [Fos86]. **Interesting** [Tha89]. **interior** [Har80]. **Interlacing** [Bar89a, Sod87, Zab88, Zab89, Car83, DD87a, Fri85b, HMS87, LN85, Mar88, Que87b]. **International** [Bru88a, BV89]. **Interpolating** [Sch83a]. **interpolation** [Ant88, AA89, BGoMSTAUTA+86, Dub85, FSZ85, FT89a, GM89, LA88, MR84, SSZ83]. **interpretation** [CW80, Gee89a, Hol87, JM89b, Wat87c]. **intersection** [DR80a]. **Intersections** [BF82, Rys81]. **Intertwining** [CS89a, FP87b, FP87a]. **Interval** [Ral86, Roh81, Roh89, Bos88, CG86, GA81, May84, May85, May87, Neu84, Neu87, Nic82]. **Intervall** [Nic82]. **Intervall-Gleichungssysteme** [Nic82]. **Intervals** [BG84a, HG87]. **Introduction** [Cam84a, O'C85, Ral86]. **invariance** [Bea82, Bea88, BL89a, BH87c, GH89, Tam87c, Tam87b, Tam87d, TvdW88]. **Invariant** [Hea83, Que83, AP83, AP88, BGoMSTAUTA+86, Bie84, Che83a, Chi86, CD85, DM83b, Els82b, Emr83, Fei89, GR86, KS85, Lás80, Lon84, Mar88, MM82, MW84, Ong82, Ong87, Özg86, RR84a, RR84b, RU85, Sil86, Sil87b, Sou86a, SRPM82, Ste82, Tho82b, Wil83, Zab87, Zab89]. **Invariants** [Gur85a, Coh87, Dio89, LS85, Ray83]. **inventories** [Mer80b]. **Inverse** [Joh82a, Joh85, LY88, Urs82, AR87, BR87, Ber86b, BHH87a, BK81c, BK86, Caf81, CH83b, CG80, Cli81, DGK80, Dia86, Dic84, Dry85, FG81, FMN83, FM86a, FJM87, FM88b, FM88a, Flo82, GH84, Hoc84, HLG85, Ima83, Ima84, Joh83, KMK85, KB85, Koe85, Lav80, LN80, Lew89a, Lub87, MS86, PR81, RY85a, Rob84, Rob87a, Ron82, Sch83c, Sha83, Sme81, Tho89a, Usm87, Zho88]. **inverse-partitioned-matrix** [Dry85]. **inverse-positive** [FG81]. **Inverses** [BF81a, O'L90, Pif87, Poo81, Riz84, Ste89, Vav84, BJ84a, Bar84b, BJ86, Bel81, BF87, BJ88b, BHK81, Bhi88, BKR80, CS86a, Ded88, Dem86a, Don85, DG81, Eag88, EP88, GB84, Gre83b, HK81, Har81b, HW81, HR88, HR89, Hun82, Hun88, HP86, KK86, Kle82, MR88a, Mee83, Mee87, MR83, MR88b,

Mit87, MNR84, Nom80, Pye80, RM85, RR82, Rao83, RY85b, Rob85, RPV87, RP87, Rob87b, Rom86, She86, Tam81a, Tam81b, VV86, Wie82, Wie85b, Wim89a, Won82b, Wu80, Zho88, Zie87, dC87, Mar84b]. **Inversion** [BK88b, BAS86, Fei84, Fuh86, Gus84, SSS82, Tho82b]. **inversive** [Wil82a]. **Invert** [PS87]. **invertibility** [Dem82, Bas85]. **invertible** [Rob85, Wie85a, dBJP82]. **involution** [Hel87, Que87a, Wea83, Wea88]. **involutions** [KN87b, KN87a, Liu88]. **Involutory** [Won82b, CM84]. **Involving** [Gau83a, Car88, CL81, Cha85, FHV85, Lav80, Pat84, PL86, Pon87, Stu88a, VJ84]. **Iohvidov** [Tho82a]. **Irreducibility** [FM81, FB81a, BS87a]. **Irreducible** [Dia81, JZ85, MŽ83, Neu81b, San87, Sha85d, SL87, TW80, Vin89]. **Irredundant** [Laf83b]. **irregular** [Bea86]. **Ising** [Ste81a]. **Isometries** [LT88b, Gro80a, LT83b]. **isometry** [Lew82]. **isomorphic** [Des88, Pol86]. **isomorphism** [Gur82]. **Isomorphisms** [Bol85]. **isonemal** [HT84]. **Isoperimetric** [Moh88]. **Isospectral** [Cal82]. **issue** [Ano80q, Ano85t, Ano86a, Ano86v, ORS85b]. **issues** [Ano88-34]. **iterated** [Poh89]. **iterates** [Tad86]. **iteration** [BEN88, Lei89a, NVD80, OS84, Rob83, Rob83]. **Iterations** [Rob80a, Ded88, Hug85, Mil87, Rob80a]. **Iterative** [CS86b, EHL81, HRR87, NdPV84, YJ80, Abe82, AC89, ABI84, EL88, GR87, HPS83, HPY86, HPS88, MS83, Man84, MNP85, Mil88, Mis85, NV84, Neu80, NP87, Sch84b, dP80]. **IV** [Ano80a].

J [Bar81a, Cam81, Gov89a, Nau87]. **Jacobi** [BF89, Gab87, Har86a, KG83, Mil83, Mil87, SD80, SHW86, Tho82a, WN87, dBS86]. **Jacobi-like** [Gab87, Har86a]. **Jacobson** [Har87b]. **James** [Ano87s, Bea87a]. **January** [BU88, BHL89c]. **Järvinen** [Gre83a]. **Joel** [Bea87a]. **John** [Bea87a]. **Johnson** [And87a, Lew89c]. **joint** [CS89b]. **Jordan** [AB85, AB84, AR87, HPW89, Koš88, Laf81c, LP82a, MP83, RB89, Sch86a, Str87, Wim87, Wim89d]. **Jr.** [Poo81]. **June** [BU84]. **Jürgen** [Ral86].

Kågström [Cam84d]. **Kaashoek** [Lan81]. **Kahan** [Neu81b]. **Kantorovic** [Dav80]. **Kantorovich** [Cha87b, Rao85, Wat87c]. **Kantorovich-type** [Wat87c]. **Kato** [Cam84a]. **Kennard** [RP85a]. **kernel** [MR83, MR88b]. **kernels** [Hun88, RP87, Sai82, Sai87, Sai88]. **Ki** [Ple83]. **Kim** [Pul87, Ple83]. **Kind** [Ong87]. **kinds** [Mur83]. **Kippenhahn** [Laf83a, Sha82c, Sha82a]. **Kogbetliantz** [Bai88, CV87, PV86]. **Kojima** [Hof85]. **Korte** [Sch84c]. **Korzhik** [Was84]. **Krause** [Wil82a]. **Krein** [Ban82]. **Kreisscheiben** [Nic82]. **Kreisscheiben-** [Nic82]. **Kronecker** [BV88, Coh87, Hal86a, JAK89, Lin88, MV88a, Oko86a, Oko86b, Ste81a, Bru84c]. **Kruskal** [BWT89]. **Krylov** [Ruh84].

L [Bar80a, BKL85, Bru84b, Cop84, Dat86, Mar84b, Poo81]. **L.** [Ker87]. **Lancaster** [BKL85, Cop84, Dat86, Har88]. **Lanczos**

[CW80, Gre89, Pai80, Par80, Sim84, Cyb87, ER87]. **Laplacian** [Bap86b]. **Large** [GP80, MNP85, Saa80, Cob86, Dat89, EHL81, EL89, HPS83, HPS88, McK81, Neu80]. **Large-Scale** [GP80, MNP85, Dat89]. **largest** [Ash87, Neu82a, Yua86]. **last** [Tau85]. **Lat** [CH80]. **Latin** [BF82]. **lattice** [Boj86, LT86, Lon84]. **lattices** [DS89b, GR86, MM82]. **Lavoie** [Kha83, Sty81]. **law** [Dan86, Har86b, Wim83b]. **Lax** [FT84]. **Least** [APP88, BD80, BB86, Bro89a, ES86, Fre87, GP80, MNP85, NdPV84, VV87b, VV87c, Bak85, BT81a, BI82, Bjö87, Boj86, Dax88, Doo82, EL89, GH80, Kam89, KRS82, MN87, RP85a, Rao85, Spi87, Tor86a, Ver82, Wan86, Wei89a]. **least-norm** [BI82, Ver82]. **least-squared-error** [Ver82]. **Least-Squares** [BB86, GP80, MNP85, NdPV84, VV87b, Spi87, Wan86]. **leave** [MK89]. **leaving** [Els82b]. **Ledermann** [GL85b]. **Lee** [Bea87a]. **lemma** [Hal86a, MS80a, Mar88]. **length** [DSD88]. **Leon** [BP84b]. **Leontief** [FHV85, SS87b]. **less** [JS89]. **Letter** [Ano88-28]. **Letters** [Ano80n, Ano80o, Ano80p, Ano81p, Ano81q, Ano81r, Ano81s, Ano81t]. **level** [Her89]. **Leverrier** [Giv82, Gow80]. **Levi** [RWZ88]. **Levine** [CM84]. **Lewin** [Zha87a]. **Lexicographical** [MLS87]. **Lie** [Tow80, AL89, Bro83, Far84, Gam88b, Lei89b, PZ89, RWZ88, Zas83]. **Liénard** [FD89, Jur82]. **light** [Har87a]. **like** [BG86, CS86a, Gab87, Gau83a, Har86a, Men86]. **likelihood** [AO85, Don85]. **Limit** [Fri86, HS84, Doo89, Spr81]. **limiting** [Tor86a]. **limits** [Sch83a]. **Line** [Sme81, BS81, FS85]. **Linear** [AB85, LAA68, Ano81w, Ano82n, Axe80, Bea81a, Bea82, Bea88, BL89a, BHJ85, BS87a, BCR88, BDM83, BA80, BD80, BBV88b, BF83, Bro83, BV89, BS89, BKR80, Bun87, Cai82, Cam84e, Cam84a, CLT82c, CLT87, CJR87, Cop81, CM81b, CM83, Dax88, Dad87, Far85a, Fia89, GKKL87, Gov88a, Gov89a, Gre83a, Hal83, HJ86c, HM86, How80, ISS86, JY83, LTT83, LTT88, Loe89a, MK89, MR84, Mon84, NdOH89, Pai85, Poo81, Roh89, SS87a, Sha89, Sta81, Tam87c, Tam87b, Tam87d, Wat82a, Wat86, WWWS86, Wim89c, Wol89a, You84, Zie88a, dO83, Adk85, Aga81, Ano80n, Ano80o, Ano80p, Ano80q, Ano81p, Ano81q, Ano81r, Ano81s, Ano81t, Ano88-28, Ant83, AL86b, AS80, BM85, Bak85, BM89a, Bar80b, BI82, BI88, BB89a, Ber81, BNS86, BKH88, BFM89a, Bjö87]. **linear** [Boj86, Bou88, BH89, BPB88, BCS87, CMR81, CE82, wEC87a, Chu88, wEC89, CD85, CPV89, Cri88, DI85, DW89, DS89b, Dia81, Dio89, DM82, Don87, Dry85, EHL81, Emr83, EL88, FHV85, Fuj84, GS89, Gee89a, GH80, GL88, GKK86, GdHZ89, GR87, GA81, Gur85a, HPS83, HPS88, HH83, HS89, Hia87, HPW87, HPW89, HW89, Jai84, JKvdD87, JP87, JJS89, Kam88, KP80, KW89a, Kay85a, Kay85b, KP86, KR81b, KP89, Kra81, Kun81, LY88, LR81, LT83b, LT88b, Lip80, Loe88, Loe89b, LPC89, Mal89, Man82, MŽ83, MJ81, Meh89, Mil83, MN87, MV88b, Nak84, Neu81a, Neu84, Neu87, Neu80, Neu82b, NS89, Nic82, Nie89, Nis85, Oko86a, Oko86b, Par80, Pet82, PH81, PW83, RY85a, RV89, Rei87, RO89, Roh81, RS82, Rot89c, Sch84b]. **linear** [Sch88, Sin88, Spi85, Spi87, ST88b, Ste85, SY89, Syl86, Sza85, Tan86, TW80, Val88a, Ver82, Wan86, Wei83, WN87, Wil83, Wim80, Wol89b, Zie83, Zie85,

dSB81a, Ano81u, Ano81v, Ano83l, Ano84q, Zim80, Cop84, For86, Gov89a, Nau87]. **linear-quadratic** [Gee89a, JJS89, SY89]. **linearer** [Nic82]. **lines** [Caf81, KBM86, Neu89]. **linked** [DALSP89]. **Linpack** [Cam81]. **Liouville** [Usm87]. **little** [Jam81]. **Loan** [Ste87b]. **Local** [AZ83, Adk85, EI87, FN89, Gur80, Gur81b, LP82a, MS83, Rob83, Zhe87]. **local-global** [Gur80]. **Localization** [HB83, Sen84]. **locally** [MFPW85, Pol86]. **location** [Gen86, PY82]. **loci** [DALSP89]. **Loewner** [Fie84a, FP88, Vav88]. **log** [Nus86]. **Logan** [BU84, BU88]. **loglinear** [BR89a]. **Longstaff** [Stu88c]. **look** [Par80, Rys85]. **lookup** [HTRG88]. **loop** [Lin87b]. **lossless** [GVK⁺83]. **Lothar** [Ano85s, EH85]. **low** [Cob86]. **Lower** [Bea87b, Bea86, Con85, JKW85, Pat88b, Bar83, BJ88a, Bar88b, Che83a, Che83b, Joh89, Lew89c, Szu88, Szu89b, Yua89, dG82]. **Löwner** [Vav84]. **LQ** [Pol89]. **Lyapunov** [BC87, HJ86b, HS85, Jon84, KH84, New83, Nor89, Ptá81, Ptá83b, Ptá84c, SB87, SH88, SB88]. **Lyndon** [Bea87a].

M [Bru84b, Bru89, Cam84c, Gau83b, Lan81, SDGT81]. **M.** [She86]. **MacLaurin** [BS83]. **MacWilliams** [BPB88]. **main** [BH88]. **Maintaining** [GMSW87]. **majorants** [Dah83]. **Majorization** [And89, Gar82c, Tho83a, BS85a, Bru84a, Fis87, GW85, Her89, Kom83, Pan89a, Zab89]. **majorized** [BT81a]. **Making** [Dan89]. **Manifestations** [Mer80a, Bre88]. **manifold** [AL86b, HS87]. **Manifolds** [Kov80, KS88]. **manufacturing** [ER89]. **many** [Tau82]. **map** [HJ86c, HM86, Kit89, Mar84a, TW89, Wat88b]. **mapping** [Hen83]. **mappings** [Ber86c, Cri88, Tur85]. **maps** [BT81b, CL82b, CJR87, FB81a, FB81b, Hia87, How80, MŽ83, Tam81a, Tam81c, Tan86, Tom85, Wat82a]. **March** [GL85a, Hol85, BF85, Gro85, Laf85b, Lew85b, O’C85, SW85, Tim85, Wim85a]. **marginal** [NS85]. **marked** [HK83, Sch86a]. **Markham** [CL89, Smi87]. **Markov** [Mey84, Dat84, FB81a, FB81b, Fry85, FM86b, GM85, HJ86a, HS84, Hun86, IS82, JM89a, Sen80]. **Markovian** [Hun88]. **Marshall** [Tho83a]. **Massey** [JM89b]. **Master** [GT89b]. **matching** [Bro89a, Emr83]. **Matemática** [GL85a]. **Mathematical** [Bar81a, Bea87a, GL85b]. **mathematician** [HM84b]. **Mathematics** [BU84, BU88, Sch84c, DR86, Bar80a]. **Matrices** [And89, BY80, Bar81a, Ber81, BS81, Bru80, Bye87b, Chu86b, CS86b, CM83, Dem86b, DM80, Els82c, Els85, ES80, FB81b, GL85a, Gau83a, GR80, KK86, Kau87, KG83, KB85, Li88a, LQ87, MT85, MSS84, Mey84, NW87, PV81, PS87, Rot81, Rys81, Saa80, Sha85a, Sil87a, Zab87, dPB86, dO82, Adk89, AHnLR88, ABO88, AS82, AB84, AB85, And83, And85b, And87b, AO82, Art83, Art86, Ash87, Ata89, AP86, BF85, Bak87, BK81a, BP85, Bak85, BH87a, BGoMSTAUTA⁺86, BPR87, BR80a, Bap82, Bap83, Bap85, Bap86a, BR89a, Bap89, BT81a, Bar89b, BH81a, Bar89c, Bar81c, BF81a, BJ84a, BJ84b, Bar84b, BJ86, Bar83, BH88, BJ88a, Bar88b, Bea81b, Bea82, Bea88, BL89a, Bea84, Bea87b, BQ85, BdP86, Bee80, Bek88, Bel81, BAS86, Ben86, BS82a, Ber86b]. **matrices**

[BF87, BH84, BHJ85, BH87b, BS87a, BJ88b, BL89b, BHK81, BH82, BHH87b, BM89b, BG84a, BK81b, BB89b, BC83, BK88b, BLAK89, BH81b, BS87b, BG82, BL82a, BL82b, Bru84a, BH85, BR86, BS87c, Bru88b, BM89c, BS82b, But88, Caf81, Cai84, Cal82, Cam89, CS86a, CH83a, Car83, Car84, CP85, Car88, CH89, CDMS81, Cha81, CL82c, CR86, CLT87, Cha82, Cha88, Che83a, Che83c, Che84, CS89b, CL86, CLLW87, CHP88, CF86, CG80, CM84, CS82, Con85, CvRS81, CPV89, Cri88, Dan88, Dat84, Dav80, Ded88, Dem89, Dem82, Den81, Deu81, DS89b, Dic84, DR83, DR88, DR80b, DGKW84, DG87, Dow85, DS82, Dua89, Dub85, DG81, EP88, ELS82a, Ell87, EGL85, Els82b, Els84b, EP87a, EJ89, EP87b, Fan89, Far87, Fer80, FG81, Fie81a, FM81, FMN83].

matrices [Fie83, Fie84a, Fie84c, Fie84b, Fie85, FJMN85, FP87a, FP87b, FJM87, Fie88a, FM88b, Fie88b, FP88, FS85, Fis87, FG80, FL89a, FH88a, Fri85a, Fri85b, Fri86, FH88b, Fuh86, FD89, FHV85, FP81, Gab87, Gad88, GLS83, Gal81, Gar82b, Gen86, Ger89, Gib80a, GT89a, Giv84, Gof81, GG82, GR86, GS83b, Gol84, Gol86a, Gol86b, Gor89, GP89, GB84, GB87, Gov88b, Gov89b, GL84, Gow89, Gow80, Gow85b, GR87, GS84, GW80b, Gre83b, Gro80a, GJMW84, GJMW87, Grü81, GJS89, GN82, Gur80, Gur81b, Gur85b, Gur88, Had83, HM84a, HF85, Han86, HL83, Har80, Har81a, Har84a, HL84, HP81, Har82, Har84b, HS86a, Har87a, Har87b, HW88, HJ86a, HJ86b, HR88, HHM89, HI86, HB83, Her83, HB84, HS85, HJ86c, HM86, Her86].

matrices [HJ86d, HMS87, HRS88, HS88a, HH85, Hia87, HW87, HG87, HHJ86, HH88, How80, Hwa86a, Ima83, Ish87, JG80, JL87, JvdD88, JP82, JP84, JP87, JP88a, JZ85, Joh80, Joh82b, Joh82a, Joh83, Joh84, Joh85, Joh87, JE87, KR83, KO85a, KH84, Kay87, KGÖ83, Kha80, Kha83, Kha85, Kle87, Kle82, KL86, Koe85, KS80, Koš88, Kov87, Laf80, Laf85b, Laf86, Laf89, LLT84, LO81, LN85, Lás80, LR81, Lee80, Lei81, Leó88, LN80, Lew89a, Lew85b, LT83b, LT88b, Lin89, Liu88, Loe83, Loe84, Loe86, Lon81, Lon88, LP80, Luk81, Mac88, Mad83, MM80, Mar81b, Mar84c, MJ81, MPJ81, MSS89, MS86, MH81, MR88a, May84, McF80, Mee83, Meh84b, Meh84c, MV88a, Mit82, MP82, MO86, Mit88, MNR84, MM88, nM87, NV84, Neu86, Neu81b, NP87, Nom80].

matrices

[O'C85, Oku87, OvdD82, OP82, Ong84, OS84, Pan89c, Par86, Pat88b, PL86, Pif87, Pin85, Piz83, Pol87, PK87, Ptá83b, PW85, Ptá86b, PS88, PV82, Rad84, Rag84, RM85, Ram86, RR82, Rao83, RY85b, RC81, Ray83, Rho89, Riz84, Rob82, Rob86, RPV87, Rob87b, Rom86, RT85, RS89, RCA88, RU87, SD80, Sai82, Sch82, Sch81a, SS88, Sch86c, SL82, Sha87, Sha85b, Sha85d, Sha82c, Sha82a, Sha85e, SH88, She84, SWR87, SS86, SS87b, Sil88, SPZ82, Sin81, Smi86, Smi88, Son88, Spi82, SRPM82, Ste85, Ste87a, Ste81b, ST87a, Sto86, Stu88a, Stu88c, Stu88b, Szu89a, Tad86, Tam81b, Tam87a, Tam87c, Tam87b, Tam87d, Tan83, Tao84, Tau80a, Tau83, Tho86, Tho82b, Tho83c, Tis87, Tre85b, Tre86, TST86, Uhl81b, Vål86, Vål88c, Vål89a, Vål89b, VNC84].

matrices [Vav84, Vav88, Vei86, Vit82, Wan80, Wan81b, Wat86, Wat87a, WH85c, Wat88c, Wea83, Wea88, Wer84, Wer85a, Wie82, Wie84, Wie85a, Wie85b, Wie85c, WN87, Wil82b, Wim83a, Wim87, Wim89a, Wim89b,

Wim89d, Woe89, Won82a, Won82b, WB81, Wu80, Wu87, Wu88, YL85, Yan84, YH82, Yca82, YB81, YB84, You81a, Zab86, ZM81, Zen84, Zen89, Zha87b, Zha87a, Zho88, Zie87, Zie88b, Zij84, dBJP82, dCG81, Gib80b, Wat80, dB80, Bas85, Har88, Hay82, Nor84, Dat86]. **Matrix** [Ano88-32, BP81, Bea86, BCS86, BHL89a, BHL89c, BH83, Bru84b, Bru84c, BG86, Cam84b, Car85, Ded88, DK87, ES86, Elf80, Fer81, FG86, GL85a, Gai89, GHS87, Gur82, Har84b, HR89, Hig87a, Hig88, Hol85, Jin88, Lan81, Lás81, Ler80, OS86, OvdD88, Ple83, Qi84, Ros80, Sch89a, Val88a, Van84, Zie88a, ABI84, Axe86, BF85, BK80b, BKK83, BP85, BM89a, BPS89, BR87, Bap84b, Bap86b, Bar84a, BFP88, BJL89, BH88, BP88a, BF88, BZ89, BHH87a, Bhi88, Bol85, Bro85b, BS86b, BN88, BK86, BG81b, Bye87a, BV80, CM81a, Cai81, CG86, CL81, CH83b, Che83b, wEC87b, wEC87a, wEC89, CFKK82, Coh86, Coh88, Cop84, CM81b, Cro81, Dah83, Dan87, DD87b, Dat88, Dat89, DN84, DGK80, DGK83, Des88, Deu80, DW83, Dio89, DM82, DvdP81, Don87].

matrix [DEHS84a, DEHS84b, Dry85, ES80, ER87, EP87b, EG89, Eva85, Fei84, Fia83, FJMN85, FM86a, FM87, FM88a, For80, Fos86, FK87, Gar82c, Gek81, GS87, Gha87, GMSW87, GW85, GH83, GLR83, GHW82, Gro85, Grü82, Gus84, HG80, Hal80, Hal86a, HRR87, Hea83, HS86b, HG89, HJ86d, HS88b, HRS89, Hoc84, Hol82, How83, Hu87, Ima84, Isa80, Jia82, JAK89, JKW85, JORvdD87, Joh88, KBM86, KMV87, Kem81, KP86, KB89b, Kit87, Koh85, Kra83, Krä87, Kwo88, Kwo89, Laf81b, Laf81c, Laf83b, Laf85a, Laf85b, LT83a, Lan86a, LY88, LT88a, LN80, Lew85b, Lew89b, Lew89c, Li86a, Li89, Lin87a, Lon84, Lub87, MP83, Mar85, Mar86a, Mat85, May88, Mee87, Mer84, MW85b, Mes89, Mil88, Mit84, Mit86, Mor88, Mur83, Mur82, Nak84, Nel85, Neu85, NPW82]. **matrix** [Neu82b, Nor89, O’C85, OH85, Ple81, Pok86, Pol85, Pon87, Pow87, Ptá83a, RR84b, Rob85, RB89, Rod80, Ros84b, Rot89a, Rot80, RP83, Rys80, SA89, San87, Sch85, Sch84a, Sch86a, SZ86, SZ89, Sco85, Sco86, SS81, SF85, Sha88, SL87, Shr86, SS86, Sil86, Sil87b, Smi87, SW85, Spr81, Sta81, Sti87, Str87, Stu88a, Sun82a, Sza85, Szu88, Szu89b, Tan86, TZ87, Tau80a, Tho89a, Tho85, Tho88, Tim85, Tom85, Uhl83, Uhl87, Urs82, Usm87, Vål88b, VB89, VD83, Vav89, Wat84, Wat88b, Wea83, Wea88, Wer89, Wer83, Wim85b, Wim85a, Wim88, Wim89c, Wol81, You81b, You83, Zen89, Zie83, Zie85, dBP82, dBS86, dG82, dOdS83, And87a, Bar87, BKL85, Cam84d, Ste87b]. **matrix-fraction** [KP86]. **Matrix-theoretic** [Fer81]. **Matrizen** [HH85, Wer84]. **matroid** [CS87b, Wag89]. **matroids** [BR89b, Cor87, Cun82, GT89b, LW81, Law82]. **Matthews** [Pow87]. **max** [BR89b, OR88]. **max-flow** [BR89b]. **Maximal** [SH88, BS81, Fri85a, KS86b, Laf85a, RR84a, RR84b, RU85, Row83, Row88]. **Maximization** [Elf80]. **maximizing** [WT85]. **Maximum** [AO85, BA EGL87, BR80b, Don85, Ish87, Leó88, RT85, She89, Sou86a, Sou86b, Sto86]. **Maximum-likelihood** [AO85]. **May** [Ano88-32, OvdD88, Bon83]. **McDonald** [For86]. **McIntosh** [Mon84]. **mean** [And83, AB87, BM89a, Gek81, Sza85]. **means** [AMT84, Fur89, Lut84]. **measures** [AN83, Ata89, EP87a, GM88a, Har81a]. **Mehta** [Bru84b].

Meixner [Chi86]. **members** [Ano88-30]. **Memory** [GHL86, Ano87s, HM89b]. **memory-intensive** [HM89b]. **Merten** [BFP88]. **mesh** [CZ86, Ver84]. **metacyclic** [ML83]. **Method** [BD80, BH83, Cal80, MNP85, Saa80, Van84, Axe86, Bar80b, Bjö87, BF89, BK80c, CZ86, Cao87a, Chu84, Chu88, CM84, DM86, DI85, DGK80, Dry85, EL88, GT89a, GA81, HY80, Har81b, HS86b, Ker87, Kri84, LS87, Lin87b, MS83, Man84, Mar86b, May87, Mir83, NM85, NV84, Ogr88, Pan89a, Ric83, SSS82, Sid89, Spi85, Spi87, Tao84, TST86, VB88, VNC84, Ver84, Wat87c, Yey84]. **Methods** [Axe80, CM82, Elf80, Fre87, JY83, MP80, NdPV84, O'L80a, PL82, Ruh84, SS87a, Sim84, YJ80, AC89, Ano80q, ABI84, AP86, BEN88, BG86, CE82, DM82, EL89, FM89, Gab87, HPY86, HRR87, Kra81, Lás81, Ler80, LM80, MK88, MN87, NP87, Ric83, RTW83, San87, Sch84b]. **metric** [Bus86, Sch82]. **Metrics** [Had86]. **Meyer** [Poo81]. **MGR** [RTW83]. **min** [BR89b]. **min-cut** [BR89b]. **Minc** [Nis88]. **Mini** [dO83, Neu82b]. **Mini-Conference** [dO83, Neu82b]. **Minimal** [Bre84, SF85, Woe89, Adi82, BC85, Ele87, GLS83, Laf85a, OM89, Sal81, Sha82b, VB88, VB89, WS83, dGH83, Lan81]. **minimally** [YB88]. **Minimax** [Car83, ST88b]. **minimization** [Kab85, LM80, LST88, Mor85, Pon87, Sch89a]. **minimizing** [PW89]. **Minimum** [BK80a, For87, Son88, BS87c, For80, MS80a, Rot89a, Tre85a, Wan86, Tre85a]. **minimum-norm** [Wan86]. **Minkowski** [NVD80]. **minor** [SS87b]. **minorants** [Dah83]. **minors** [Eag88, HL84, Her83, HMS87, JORvdd87, KR81a, Loe86, MNR84, Mur82, RM85, Ram86, VV86]. **minus** [Bak86, Mit86]. **Miron** [Har88]. **Mirsky** [BP84b, GHS87]. **missing** [Sza85]. **missing-data** [Sza85]. **Missized** [FG86]. **Mixed** [Bap89, Gol86a, Bap86c, Coh86, CMO89, Gol87]. **Model** [Pai85, Bak85, CZ86, ER89, Emr83, Far85a, FHV85, GLN84, GLN86a, GLN86b, KGÖ83, SS87b, Ste81a]. **Models** [BEN88, Mon84, BM85, BR89a, CM85, CD85, Des88, SF85, SS86, Ste85, Wer85b, Zen89, Zhe87]. **Modern** [Nie89, Sch84c]. **Modification** [AGG88]. **modified** [BF88, Giv82, Gow80, Mar86b, Mil83]. **modular** [Bec89]. **module** [Wim89c]. **modules** [Gur81a, Gur82, GL82, Ler80, Oko86a, Oko86b, Tho82b, You84]. **moduli** [Wim85b]. **modulus** [HRR87, Leó88, RT85]. **Moler** [Cam81]. **Moment** [Tor86b]. **moments** [JM89a]. **Monge** [ACHS89]. **monic** [Rod80]. **Monomial** [CLS87, Bre84]. **monomorphisms** [SK82]. **Monotone** [OvdD82, Ber86c, KS86b, Kwo89, Sto86, Wer84]. **monotonen** [Wer84]. **monotonic** [MS84]. **Monotonicity** [Lon81, Hwa86a, KO85a, NPW82, Wer85a, Wer87]. **Moore** [Cli81, Lav80, MR83, MR88b, PR81, Rob84, Rob85, RPV87, Rob87a, Sch83c, Sme81, Won82b]. **Morishima** [Wie85a, Wie85b]. **morphism** [PR81]. **morphisms** [MR83, MR88b, Rob80b, RP85b, RP87]. **Moshe** [Nor84]. **Most** [DKH86]. **motions** [RS86b]. **Motzkin** [Fri81]. **MR** [BS89, BKR80, Cai82, Sha89, Sta81]. **multi** [MK89]. **multi-input** [MK89].

multicommodity [Kar89]. **Multidimensional** [Cam84c, Bap82, BR89a, FL89a, Rag84, Son87]. **Multigrid** [Hac84, CZ86, Ver84]. **multilinear** [Pat85]. **multimodal** [BCS83, BCS88, CS87a]. **multinormal** [KR83]. **multipass** [RO89]. **multiple** [Gow80, Mar85]. **multiples** [Lan86a]. **multiplexes** [For87]. **Multiplication** [Vav88, JE87]. **Multiplicative** [RT83, AN83, Dia86, Lin87c]. **Multiplicativity** [GS83a, GS83b, Gol84, Gol87, GS82, Gol86a]. **multiplicity** [Wie84]. **multiplier** [Ong84]. **multipliers** [Ma85a]. **multiply** [Law82]. **Multiprocessor** [GHL86, ISS86]. **multiprocessors** [Saa86]. **multisplitting** [FM89, NP87]. **multivariable** [HS89, KW89a, Pow82, Cam84c]. **Multivariate** [Chi86, AO85, Bon85, Bos88, CM85, DM83a, Kab85, Kom83, Sza85]. **multiway** [KS86a]. **mutation** [DALSP89].

N [Cam84c, Son87, dPB86]. **N.** [BKR80]. **Nahikian** [CM84]. **Napoleon** [CD83]. **Nashed** [She86]. **Near** [Pet82, AZ83, EP88, KS88, Uhl81a]. **near-characteristic** [Uhl81a]. **Near-fields** [Pet82]. **near-geodesics** [KS88]. **Nearest** [Hig88]. **Nearly** [MSS84, CR86, For80, Tre87]. **Necessary** [Bec80, JY86, JY87, KG89, Kom83]. **négatif** [Yca82]. **Negative** [Mey84]. **Nested** [BT81a, DW83]. **network** [Zen89]. **networks** [vB85]. **Neumaier** [HN88]. **Neumann** [CD83, CL89, Fis87, Lew85b, MS80a, May85]. **Newman** [MW87b]. **Nilpotent** [DM80, Lon84, Tow80, Wu87]. **nilpotents** [Laf89]. **nilradicals** [RWZ88]. **ninetieth** [Gau83b]. **no** [Sta81]. **Noble** [Gov89a]. **Noël** [DR86]. **Noisy** [HM89b]. **Non** [YJ80, BK88b, BLAK89, CS87b, Gow85b, GR87, SPZ82, Yca82, Mey84]. **Non-** [YJ80]. **non-Euclidean** [Gow85b]. **non-Hermitian** [BK88b, BLAK89, GR87]. **Non-Negative** [Mey84]. **non-Radon** [CS87b]. **non-tree-realizable** [SPZ82]. **noncentral** [Neu85]. **noncommutative** [Sun82b]. **noncooperative** [Bir81]. **nondegenerate** [Gow81]. **nondiagonable** [BNS86]. **nonequivalence** [Lin86]. **nonidentity** [Mac88]. **noninteger** [Har81b]. **noninteracting** [TvdW88]. **Noninvertible** [GN85]. **Nonlinear** [Zen89, Ama86, FK85, HF85, Jef86, Pan89a]. **Nonnegative** [BGP85, BJ88b, Deu81, EJ89, GW80b, HK81, HL83, JG80, JP82, Lin87c, Pye80, SRPM82, Ash87, Bak87, BWT89, BL82a, CP81, Che84, CS82, Con85, DW83, DEHS84a, DEHS84b, Eag88, Els84b, FN89, Fri86, GJS89, Har81a, Har89, HRR87, Her83, JP81, Joh83, Kay87, Leó88, Lew89b, Lin89, nM87, RU85, Rot89a, Rot80, RT85, San87, Sch86a, Sch86c, SS81, Sha85e, Ste85, Ste87a, Szu88, Szu89b, Tam81b, Wea83, Wea88, Wu80, Yan84, Yca82, Zij84, Bar81a]. **Nonnegativity** [MNR84, RM85, Jai84, Mat86, Ram86]. **nonnormal** [Jia82]. **nonnormality** [EP87a]. **nonpositive** [Pan89c]. **nonprincipal** [Loe83, Loe84]. **nonselfadjoint** [LA89]. **nonsingular** [MP89a, Neu81b, Tho86]. **Nonsingularity** [Car88, CH89, JUW82]. **nonstationary** [BAG89]. **nonsymmetric** [HPS83, HPS88, OS84]. **nonsymmetrical** [BB89a]. **Nonsymmetrizable** [JY83]. **nontrivial**

[Els82b]. **Norm** [Fon86, And85b, BK80a, BI82, Flo82, Li86b, Li87, Oku87, Ong84, Pok85, Tao84, Ver82, Wal86, Wan86, dC87]. **Normal** [Fia83, GJMW87, AO85, Bar89c, BQ85, CD85, Dav80, DR80b, Gab87, Hos86, Kab85, Lem88, Loe83, MM80, PL86, RC81, Sid89, Sun82c, Sza85, Tch89, Tho83c, Wim87]. **normality** [BN88]. **Normalizable** [Fan83, PK87]. **normalized** [OM89, RS82]. **Normally** [NW87]. **normed** [LR81]. **Norms** [Bar87, Zie88a, Deu80, FZ84, GS82, GS83b, Gol84, Gol86a, LT83b, LT88b, MS84, Mee87, Mer81a, PW89, Sta81, Tau80a, Wat82a, You81a, Zen84, Zie83, Koh84]. **Note** [Ano89t, Bai88, Ber87, Che83b, Cli81, Fre87, Hof85, Kie87, BP85, CS86a, Chu88, Cos89, Des88, DvdP81, Dry85, Eli88, Els88, EL89, Fie83, GH87, Gur80, Gus84, HG80, HN88, Har87a, Hwa86b, JP81, Kha85, Laf81c, Le688, Mur82, Per88a, RU85, RTW83, ST88a, Sin88, SK84, Sun82a, Tre87, Wat87b, YH82, YB84]. **Notes** [FJM87, HB84, vL81, MV89, Smi88]. **null** [Fos86, Joh84]. **Nullities** [Rob87a]. **nullspace** [HS88a, HRS89]. **nullspaces** [AR87, HRS88]. **nuls** [Yca82]. **Number** [WWWS86, CZ86, Fri85a, Gow81, KP89, MT85, Row83, Row88, Sil86, Tau80a, Tau80b, Ver84]. **Numbers** [Zie88a, Dem86a, FN89, Que83, Sch86b, TC86, Zie83]. **Numerical** [AG89, Bun87, FHP80, Joh81, Naz84, Ruh83, Beb86, DEW80, Fie81a, FT88, GT82, GS82, GS83a, LTT83, Li86a, Li86b, Li87, LTT88, LT89, MS85, MS88, Moo82, Neu81a, Tam87c, Tam87b, Tam87d, Tsi84, Wei83].

Obituaries [Ano88-29]. **observability** [dSB81b]. **observations** [Giv84, Gro82]. **observers** [Hau83]. **obvious** [RPV87]. **occasion** [Ano85s, EH85, FL89b]. **octets** [Wil82a]. **October** [BP81]. **odd** [Mad83]. **odd-even** [Mad83]. **off** [Gen86]. **off-diagonal** [Gen86]. **Olga** [Koh84]. **Oliveira** [GL85a, BdP88, MV89, dPB86]. **Olkin** [Tho83a]. **Omissions** [BS89]. **one** [BC84, EN89, Kam89, Man84, Pat88b, Ste81a, Urs82, Wat86, dBP82]. **one-dependent** [Kam89]. **one-dimensional** [Ste81a]. **ones** [Bru80, BL82b, BS87c, BM89c, EP87b, Fri85a, Jam81]. **only** [RPV87]. **onto** [AL86b, HM86]. **open** [Sha85f, Sha89, SS87b]. **operation** [Hoc87]. **operational** [Ber86a]. **Operations** [Sch84c, Joh87]. **Operator** [AL86a, BDM83, GS82, Lan81, AB87, Bar86, BKR80, ER89, FN89, Fur88, Fur89, GW80a, J6d86, J6d87, J6d88a, J6d88b, Mer81a, Pat82, Tak83, Tam85, Tim85, Wei83, Wu89, Zen84]. **Operators** [BP88a, Cop84, Jin88, Adi82, AMT84, AT88, BP84a, BGP85, BP86, Bea88, BL89a, Bha81, BK88a, Bus86, CHP88, DD87a, Dan88, Fan83, Fan88, FK85, GS89, Gol86b, Gow85a, GR89b, Gro82, HW81, Hes86, Hol85, K6n86, KS86b, LP82a, LTT83, LTT88, LA89, Loe88, Mil83, Ong82, Ong87, PY80, Pt686a, Rad84, Rei86, RS86b, Sid89, Sun82c, Tam87c, Tam87b, Tam87d, TW80, Web86, Cam84a]. **Oppenheim** [GH87]. **Optimal** [ELS82a, Els85, HPS83, HPS88, Wei83, BR86, Els84a, Gee89a, Had84, Hil82, Meh89, MFPW85, Rys85, Str83, SY89, Tor86b, WT85]. **Optimality** [FT84, KB89b]. **Optimization** [Nav89, Sch84c, Ste86, Acz85, CCH89, CW80, JMRT87, Kra83, RS89, Wol81, Yey84]. **orbit** [Bee86, Pok86].

Orbits [DM80, CL82a]. **Order** [NW87, Ste84, BKH88, Cro81, DN85, Fur89, Giv84, Had84, Har81b, Har86b, Hug85, Jód86, Jód87, Jód88b, LM87, Mit86, Mit87, Ran89, RS86a, RSR89, RV89, SM88, YH82]. **ordered** [Kle88, Law82].

Ordering

[Ste85, BP85, GLN84, GLN86a, GLN86b, HS86a, Joe85, OS89, Wu80].

orderings [Bak86, BH87a, BPS89, GW85, Ste87a]. **orders** [Bec89].

ordinary [Spi82]. **orientable** [Wag89]. **orientations** [HM89a]. **Oriented** [Law82, Cor87, LW81]. **orthant** [MS84]. **orthants** [CLLW87]. **Orthogonal** [Gau83a, GL87, GP80, LSS89, LQ87, BF82, EN81, EG89, GR87, KN87a, Nie87, SL82, dBS86]. **Orthogonality** [DEW80, KS86a, Tak85].

Orthogonalization [Ruh83]. **orthogonals** [EKC85]. **oscillating** [Gar82c].

osculation [Hen83]. **Ostrowski** [Gau83b, SDGT81, Tho83b, Wim83b].

Other [Bre88, Sch82]. **outer** [She86]. **output** [DM83b, Wil83]. **Over-**

[WN87]. **Overdetermined** [Jai84, Spi87, Str85]. **overrelaxation**

[HY80, Kri84, Mar86b, MN87, NV84, VNC84]. **overview** [Joh88].

P [BKL85, Bea87a, Cop84, Dat86]. **Padé** [dB84]. **pair** [Laf80, Mit88, Tan83].

Pairs

[GLS83, GL84, Kle88, Lei89b, BH88, HHJ86, Rag84, Sil88, Sun82a, Wat84].

papers [Ano86v]. **Parallel** [BCR88, BB86, Dat89, DI86, FG86, GHL86, GSV86b, Leu86, OS86, SS87a, SHW86, AC89, AP86, BEN88, BF89, DM86, FM89, Gad88, GKKL87, Mis85, MO86, NP87, PW89, Sco86]. **parallelepipéd** [BV80]. **parameter** [BB89b, DS82, Man84, Pan89b, Vål88b]. **parameters** [AO85, Dat84, HJ86a, IS89, JM89a, KL88b]. **parametric** [CG86].

parametrization [FT89a]. **parametrizations** [DW89]. **parametrized** [Adk89]. **part** [Lás82]. **Partial**

[BH87a, Bec89, Jun89, Sha88, BPS89, GL83, GJMW84, HS86a, JM89a, Mit86, ORV88, Ran89, Sha86b, ST88b, Tha89, VB88, VB89]. **partially**

[Kle88, Pan89c]. **particular** [MSS89, Zie85]. **partition** [PS82]. **Partitioned** [GR80, Joh84, Bek88, Bhi88, Dry85, EHL81, RY85b]. **partitioning** [Pow88].

partitions [CS87b, PM80]. **parts** [dG82]. **path** [Bee84]. **paths** [HM89a].

Pattern [Mer80b, AHnLR88, Tho89a, Wie85c]. **pattern-reduction**

[Wie85c]. **patterned** [Sza85]. **patterns**

[BJ86, BF87, CLS87, DR80a, EJ89, FG81, JUW82, Joh83, JS89, SRPM82].

Paul [Cop84]. **penalty** [Bar80b]. **Pencil**

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 [ACHS89, BAEG87, DS82, MT85, PS89, Sin88, VB88, dBS86]. **serial**
 [HG88]. **series** [May85, Tho89b, Wim80, You81b]. **sesquilinear** [Gow81]. **set**
 [AT88, CS87a, Els82b, Had86, Ray83, Rod80, Rys81, Sha85b, Sha85e, ST87b,
 Wol89a, Zha87a]. **Sets** [CS82, Ata89, BPR87, Bea82, Bea83, Bry82, Bye87b,
 CP85, Cha82, CvRS81, DS82, Gar82b, Gur85b, HK83, Kle88, Laf83b, Laf86,
 Law82, Ma85a, Ma85b, NVD80, Neu89, Rob80a, TW89, Zäl85, Zij84].
several [She87a]. **sexually** [DALSP89]. **Shared** [GHL86]. **Shared-Memory**
 [GHL86]. **Sharp** [Yua89, Mit87]. **sharpenings** [ORV88]. **shear** [Bak87].
Sherk [RS86a]. **Shift** [BGomSTAUTA⁺86, PS87, Bak87, JZ85, Zha89].
shifts [Tho89c]. **Short** [Cam84a, BR89b, Ger89, Vei82]. **Shorted**
 [Gol86b, MP82, Mit86]. **shortest** [DSD88, HM89a]. **sided** [MŽ83]. **Sign**
 [BF87, JUW82, Joh83, JORvdD87, Tho86, Bye87a, FG81, Gar82b, How83,
 JS89, Kle87, Tho89a, Wie85b]. **Sign-nonsingular** [Tho86]. **Signal** [APP88].
Signsolvability [KLM84]. **Silbermann** [Bas85]. **similar**
 [ES80, WE83, WE88]. **similarities** [BJ88a, KS84]. **Similarity**
 [Gur81b, Gur88, Hia87, Joh80, Piz83, AO82, Bar83, Bar88b, BM89b, DR83,
 DR88, Gur80, KL86, Laf86, Loe86]. **Simo** [Bru88a]. **Simple**

[Qi84, Bix82, Chu84, JM89b, Vas85]. **simplex** [Dan89, GA81, Ogr88].
Simplification [JY83, JY86, JY87]. **Simultaneous**
 [Adk89, BPR87, Laf80, Laf86, LM80, Mit82, Bec80, BC84, DI85, dB84].
Simultaneously [PK87, CP85]. **sine** [CKN85]. **Singer** [BM82]. **single**
 [JP88b]. **single-hook** [JP88b]. **Singular**
 [Bai88, BV88, Chu86b, wEC87a, KNC89, Luk86, Pai85, PV86, PS88, Qi84,
 Ste84, BH87a, BNV82, CR86, Che83c, CLLW87, DR83, DR88, Gee89a, GP89,
 GR89b, Hac84, Har81b, HS83, Joh89, Kra81, Lew89b, Lew89c, LT83b, LT88b,
 LS85, Meh89, Neu80, Par86, PY82, Que87b, Sch84a, Sod87, Wan89, Wat84,
 Wer85b, You83, Ros84a]. **singular-value** [You83]. **singularly** [LVWC88].
Six [BM88]. **Skew** [KGÖ83, GL84, Laf85b, Lee80]. **skew-centro-Hermitian**
 [Lee80]. **Skew-prime** [KGÖ83]. **skew-symmetric** [GL84, Laf85b].
skewfields [Lew85a]. **Slightly** [Gre89]. **Small** [BS88a, BL82b, Ste84, MP83].
smallest [Joh89, Lew89c]. **Smith** [Tho82b]. **smooth** [Vin89]. **smoothing**
 [Mac88]. **social** [Zen89]. **solitonic** [LA89]. **Solomon** [KL88a]. **solubility**
 [BK81c]. **soluble** [Gam88b]. **Solution**
 [Acz85, BCR88, BDM83, BA80, BD80, BB86, DI86, GH80, Hal80, ISS86,
 Poh89, Tre86, Ant83, wEC87b, wEC87a, GKK86, GR87, Had84, Har81b,
 HG89, Jon84, Kra81, Mil88, VB89, Ver82, Wan86, Wan89, WT85, dSB81b].
Solutions [HS88b, Adk85, AC89, BI82, BS88a, wEC89, DM86, Don87, FT89a,
 HW89, Jód88b, KH84, Kay85a, Kay85b, Kwo88, LLT84, MW87a, Meh89,
 Spi87, Stu88a, Wim84, Wim85a]. **solvability** [JUW82, Kle87, Man82, Nic82].
solve [Ric83, VB88]. **solved** [ER89]. **solver** [AG89, Mis85]. **Solvers**
 [DKH86]. **Solving** [Bye87a, SS87a, WWWS86, dH87, AS80, CZ86, DD87b,
 EL88, Lip86, MN87, Neu80, O'L80b, Pan89a, Par80, Spi85, Tre87, Ver84].
Some [BPS89, Beb86, BdP88, BH82, Bru88b, BK86, Che83d, Chu89, DM83b,
 Elf80, FSZ85, Giv84, Gro82, JP84, KP80, KO85a, Kov87, Kwo89, LN85,
 LP81, MK88, MR88a, May88, MV89, Mur89, Pin85, Qi84, RC81, Smi88,
 Tau80b, Wie82, Wie85a, Wol81, Zie83, Zie88a, dB84, ACC88, AL80, ABI84,
 BG81a, BK88a, Cha82, Che83c, Cop81, Dat89, DM82, Fei84, Gab87, GM89,
 HPY86, HS86a, HHM89, HG87, KW89b, LT83b, LT88b, Li88a, McD80,
 MP82, MG85, MM88, Prz83, Sch82, Sen88, Sha85f, Sha89, She86, Shr86,
 Spr81, Uch86, Vei82, Wer83, Wie85c, Wu80, ZM81]. **sometimes** [Bon83].
SOR [EL89, Fre87]. **sort** [HM89b]. **sorting** [HM89b]. **South** [Neu82b].
space [BFM89b, Djo81, Far81, Fos86, Gow85a, HHM89, Joh84, KN87a,
 Lip86, RU85, Sal81, Sch83b, Wil83, Cop84]. **Spaces** [Bea81b, Kas89, BG81a,
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 Nar86, Sis86, Ste86, Syl86, Tak85, Tim85, TW80, Vei89b, Wim83a, Gre83a].
Spain [BV89]. **Spanning** [JB85]. **Spanning-tree** [JB85]. **Sparse**
 [BD80, Fre87, GR80, GL87, Kau87, NdPV84, BJ84a, BJ86, GH80, GLN84,
 GLN86a, GLN86b, GMSW87, HPS83, HPS88, HS86b, O'C85, Ple81].
sparsity [AHnLR88]. **Special**
 [Ano80q, Ano85t, Ano87s, Ano88-34, BB82b, BF83, DHLW85, ORS85b,
 Tho88, Ano86a, Ano86v, BP85, GSV86b, LT83b, MV88a, Sch85, Vav89].

specified [FM86a]. **Spectra** [Els82c, HJ86d, BJ84b, Bha81, BF81b, BM82, Con85, Fan89, Gro82, HB83, Her83, Lei81, Pok85, Zen84, Bru89]. **Spectral** [ALZ81, BDM83, BC83, CG89, Coh88, Els85, JJS89, NT80, Wie84, BR87, BFP88, BH87c, BK81b, BN89, BH85, BS87c, Bur86, Dua89, Els84b, EJ89, FN89, FZ84, Fri88, GM88a, Har84b, Hoc84, Jia82, LY88, LM88, Li86b, Li87, LT88b, MZ83, MH81, Nus86, Prz83, PY80, Rot80, RCA88, San87, SS88, Sch86c, Sta87, Tam87a, Yua88]. **spectral-circle** [Rot80]. **Spectrally** [Sil88]. **spectraloid** [Deu81]. **spectrum** [AZ83, Bur86, DN84, Gha87, Hes86, Mar84c, Moh82, MO87, Moh88, Mü187, Sen84, Smi86, dP80]. **sphere** [Zie88b]. **spheres** [Tur85]. **spherically** [CvRS81]. **Spline** [Gro80b, Dub85]. **splines** [DM83a, Sch83a]. **splitting** [Lei89a, Wie84]. **splittings** [Li89, Sch84a, Zha87b]. **spread** [Bee80, JKW85, Sco85]. **spreads** [Jun89]. **Square** [BH83, Hig87a, AS82, Bak87, BM89a, Hea83, RSR89, Sco86, Tho89a]. **square-root** [Sco86]. **squared** [Cri88, Ver82]. **squared-distance** [Cri88]. **Squares** [APP88, BD80, BB86, ES86, Fre87, GP80, VV87c, Bak85, Bjö87, Boj86, Bro89a, BF82, Dax88, ET81, EL89, GH80, Kam89, MNP85, MN87, NdPV84, RP85a, Rao85, Spi87, VV87b, Wan86, Wei89a]. **squaring** [KG89]. **Squeezing** [DKH86]. **SSOR** [HN88, MK88, NV84]. **Stability** [Bjö87, Bun87, GN82, Her86, RR84a, RR84b, BB89a, Bir81, Bon83, Car84, DD87b, FD89, Gee89a, Gee89b, Jef86, JKvdD87, Jef88, Jur82, KB89a, LS85, Meh89, Ran89, RO89, Tad81, Tog80]. **Stabilization** [BKH88, Fei89, Abe82, KW89a, LN89, Ran89, VV86]. **stabilizer** [Tan83]. **Stable** [ABO88, Dem86b, DK87, AA89, BH84, Cai84, FZ84, Har80, JS89, KÖ85b, Man81, OvdD82, SS87b, Tad86, YB84]. **stall** [Dan89]. **standard** [Far85a]. **star** [Bak86, Far85b, Gow89, HS86a]. **State** [BU84, BU88, RW89, BFM89b, Cob86, Sch83b, Tch89, Wil83]. **state-space** [BFM89b, Sch83b, Wil83]. **states** [Had86]. **static** [Tch89]. **stationarity** [Lin87c, RT83]. **Stationary** [FM86b, Hun86, Sen80, Sen88]. **Statistical** [Car85, RY85b, Nor84]. **statistics** [Ano85t, Ano86a, Ano86v, HLG85, ORS85b, Oue81, Wie85c, Won85, Bru88a]. **Stein** [BS82b, BNV82]. **step** [DS82, May87]. **Stephen** [Poo81]. **Stewart** [Cam81, Ple81, Sun82a]. **Stieltjes** [Luk81]. **Stiemke** [BTD84]. **stiff** [MC81]. **Stochastic** [And89, Cob86, CS86b, Joh80, MSS84, PL82, Ata89, BR80a, Bap83, BS82a, Bru84a, Bru88b, CF86, FS85, For80, Fry85, Gib80a, Gre88, Har84a, Hwa86a, LO81, Lon81, Mar84c, nM87, Rho89, Sin81, Spr81, Gib80b]. **strain** [FHP80]. **Strang** [Gov89a]. **Strategies** [PS87]. **Straus** [Gol85]. **strengthenings** [PN85]. **strict** [Tad81]. **strictly** [BdP86, Fan88, FK85, Pin85, Ste82, dBP82]. **Strong** [Bak87, Bak85, Bun87, BCS87, FK85, Hau83, Ish87, SS81, Kle87, YB88]. **stronger** [Bap84a]. **Strongly** [FRS82, HH89, Bie84, Tad86]. **Structural** [BH89, Cla88, Mal89, Tch89, Wie82]. **Structure** [JP88a, Yan84, dBJP82, CS87a, DW89, EP87b, Fry85, GKK86, GKKL87, HS83, HRS89, Kle87, Kun81, LPC89, Lub87, MP83, MT85, MLS83, MLS88, Nis85, RWZ88, RB89, Rom86, Sch84a, SS86]. **structured** [MV88a, YL85].

structures [CS89a, Kes82]. **study** [DM82, LA89, SH88, Tog80]. **Sturm** [Bro89b, Usm87]. **subalgebra** [Zas83]. **subalgebras** [Gam88b, Laf81c, Laf85a, Tow80]. **subclass** [JP87]. **subdefinite** [Fer80]. **subdeterminant** [MM80]. **Subdivisions** [Eav84]. **subdominant** [HRR87, Le688, RT85]. **subgradient** [Tao84]. **subgroup** [Tan83]. **subgroups** [Vas85]. **Subject** [Ano80r, MJ81, Tch89]. **sublattices** [Vei89b]. **Submatrices** [SPZ82, CM81a, Dan87, DGK80, JR81, Joh81, Loe83, Loe84, Mer81a, Rob87a, Sil87a]. **submatrix** [DN84, Pat88b, Son88]. **submodular** [FT89b, Fuj84]. **submodules** [Emr83]. **suboptimal** [FT89a]. **subpermanents** [Bap83]. **subpolytopes** [ST88a]. **subsemilattices** [Vei89b]. **Subset** [VV87c]. **subsets** [Bur86]. **subspace** [Eva87, HW88, MM82]. **Subspaces** [BDM83, Lee89, BGoMSTAUTA⁺86, GR86, KS85, LR81, Lon84, Mat86, Ong82, Ong87, Özg86, RR84a, RR84b, RU85, She87a, Sou86a, Sou86b]. **Substochastic** [Fis87, Rob86, Rob87b]. **substructured** [Leu86]. **subtangentiality** [ST87a]. **subtractivity** [HS86a]. **Successful** [CM82, MN87, Kri84, NV84, SY89, VNC84]. **Sufficient** [BK81c, CPV89, JY86, Bec80, JY87, KG89, Kom83]. **suitable** [AP86]. **sum** [AT80, BQ85, Bru80, FW84, GHW82, HP86, Kha83, Mer84, Olk83, PW89, Rei87, ST81]. **summability** [MO86]. **summation** [BS83]. **Sums** [GR89a, AFW81, Avr89, BS81, Bre86, BM89c, ET81, Her83, KMV87, Mar81b, ORV88, PM80, PS88, Roh81, RS89]. **superalgebra** [Val88a]. **superfast** [AG89]. **support** [Ger84, SW85]. **surface** [Sch89b]. **Surjectivity** [Dem82]. **surprising** [Doo82]. **survey** [CMR81, Sch86a, Shr86, Vei82]. **surveys** [SS85]. **SVD** [CV87]. **sweep** [BN83]. **sweep-plane** [BN83]. **Sweeping** [KL86]. **Sweeping-similarity** [KL86]. **Sylvester** [Dan86, Lub87, MG85, Wim83b]. **symbol** [DR80a, Gor89, Har81b, Tho82a]. **Symbolic** [GR80]. **Symmetric** [AMT84, AGG88, BG84b, wEC89, DI86, GR80, Hal86b, Hig88, Pai80, Sim84, BH81a, BC84, Bha84, BC83, Bou88, BG82, BN88, Cao87a, CH89, CL82c, Cha88, Chu84, Con85, Dan88, Don87, ES80, ER87, EL88, Fan85, Fuh83, GT89a, GL84, HF85, HHJ86, JZ85, Kri84, Laf85b, Lás80, Lin88, Loe80, Mad83, MSS89, NV84, Par80, Pat85, Rad84, Ray83, Rei86, Rot89a, Sco85, Sha88, Sin81, Tad86, Tau83, VNC84, Wan83, Wat87a, Wat87b, Wea83, Wea88, Wei84, Wie85b, Won82a]. **Symmetries** [FR82]. **symmetrizability** [FJMN85]. **symmetrizable** [YJ80]. **symmetrized** [Gam88a, Uhl81b, dOdS83]. **Symmetrizers** [BK81a]. **symmetrizing** [Uhl81b]. **Symmetry** [MS88, DGKW84, Mer80b, MW81, Mer81b, ML83, Pat82, Tam87a]. **Symplectic** [Van84, BG86, LP82b]. **Symposium** [AL86a]. **synthesis** [Caf81, Lem88, Prz83]. **System** [HS83, ISS86, KÖ85b, Acz85, Fuj84, Kam88, Mis85, Ter87, Usm87]. **System-theoretic** [KÖ85b]. **Systems** [Axe80, Bar80a, BCR88, BA80, Cam84c, Cop84, DI86, JY83, KNC89, Nau87, Roh89, Ros84a, SS87a, Son87, dH87, Ant83, AS80, BCS83, BCS88, BAG89,

BB89a, BNS86, BKH88, BFM89b, BFM89a, BF83, Bro83, BH89, Cao87b, Coh87, CS87a, Cop81, CS87c, DW89, Dem86a, Dio89, EHL81, Emr83, EL88, Fei89, FHV85, GL88, GKK86, GKKL87, GdHZ89, GR87, HPS83, HPS88, HH83, HS89, HPW87, HPW89, HW89, Jai84, Jef86, JKvdD87, JAK89, KW89a, KB89a, Kay85a, Kay85b, KP86, KP89, Kra81, LM88, LPC89, LVWC88, LN89, Mal89, Man82, MK89, Mur89, NW84, Neu81a, Neu80, NS89, Nic82, Nie89, OM89, Pan89b, Par80, PW83, Ptá83a, RV88, RW89, Roh81, Sch84b, Sch89b, Sch88, SSS82, SW84, Spi85, Spi87, Tch89, Tre86, Tre87]. **systems** [WN87, Wil83, Zhe87, Cam84e, Cam84c]. **Systolic** [Boj86, ES86, SHW86]. **Szego** [Avr89].

T [HM84b]. **table** [HTRG88]. **tables** [Joe85]. **Tactical** [CL82a, Hos86]. **tame** [Kle88]. **Tampere** [Bru88a]. **Tannaka** [Ban82]. **Tannaka-Krein** [Ban82]. **Tarmo** [Bru88a]. **Taussky** [Fri81, Koh84, Tho83b]. **Taylor** [Mne89]. **teacher** [HM84b]. **Technique** [LQ87, MSS84]. **Techniques** [Hug85, Bar80b, Lip86, Neu84]. **Tensor** [Gro80b, Pol85, Bha84, Bru85, FR82, Gam88a, McF80]. **tensorial** [Lic85]. **tensors** [AL80, Bin86, Mer80b, MW81, Mer81b, Pat82, Poh89, Str83, Tam87a, Wei84, dOdS83]. **Term** [BP87, BR80b]. **Term-rank** [BP87]. **terms** [SF85]. **Ternary** [Koh84]. **Testing** [Väl88c, FP87b, Ram86, Sza85]. **tests** [Bon85, Jef88, MFPW85]. **th** [TST86, Yua86]. **Thakare** [BKR80]. **Their** [Bar87, BF87, Dat84, Eva85, Gof81, Hun82, IS89, Kle82, MR88a, MM88, RCS89, Rei86, SH88, Sta81, TC86, Wie82, Wim89a, YB81]. **themselves** [HJ86c, HM86]. **Theorem** [GHS87, Art83, Avr89, Bap84a, BR89a, BTD84, BS82a, Bix82, BR89b, BS85b, Bou88, Bro85a, Bro89b, BS82b, BS83, Byr83, CDMS81, CD83, CLP82, DD87a, Fri81, Gek81, HF85, Har84b, HH85, HCR88, Hoc84, Li88b, Mag87, Man81, Mar86a, MW87b, Que87a, Ros84b, Rys80, Sch82, Sco85, SS85, Sun82a, Tau85, Wie85b, Wil82a, Wil87, Wim88, Mer80a]. **Theorems** [BNV82, ES82, Sch84a, Bap82, BAG89, BC87, Car83, Dix81, Far87, Gur81a, Gur85b, HS84, Mad88, RV88, RC81, ZM81]. **theoretic** [DEHS84a, DEHS84b, Fer81, KÖ85b, Wim89c]. **Theoretical** [AGG88, Man82]. **Theory** [AL86a, Bar81b, Bar80a, BHL89c, Bru89, Cam84b, Cam84a, Cla88, GL85a, Gai89, Har88, Hol85, Nor84, Ple83, Tho83a, AT80, Ano80q, Ano81w, Ant83, BF85, Bap86a, Bar86, BF88, Ber86c, BB82a, BB82b, Cai80, Cai82, Coh86, CMO89, Dub85, Fai89, FRS82, GL88, Gro85, Har81a, Har84a, Hen83, Hil82, HPW87, JJS89, Laf85b, Lew85b, LA88, LA89, Mac89, MW84, Neu81a, Neu82b, Nie89, O'C85, Rys80, Sai87, SW85, Spi82, Szu89a, Tim85, Tor86b, Uch86, WH85a, Wim85a, Wol81, Zab88, BCS86, BHL89a, Bru84b, Cam84c, Son87]. **third** [Ano86v]. **Three** [Ber86b, Far87, FS85, Gal81, ET81, Gar82a, Ito82, Lip86, Liu88, SM88]. **Three-dimensional** [FS85]. **three-variable** [Gal81]. **Three-way** [Gal81]. **Tight** [Sch86c]. **time** [BH89, DGKW84, ER89, Fei89, HS89, Kam88, KB89a, KP86, Lin87b, Lin87c, LPC89, RV88, RT83, Wil83]. **time-invariant**

[Fei89, Wil83]. **time-varying** [Kam88, KP86]. **times** [GR89a]. **Tismenetsky** [Har88]. **Toeplitz** [Bas85, GB84, GB87, Gov89b, AG89, Bar84b, BAS86, BC83, BK88b, BLAK89, BA80, BB86, Caf81, DGK83, Dic84, EP88, ES86, Fie84b, FH88a, Gor89, GB84, Gov89b, Gre83b, Grü81, GN82, HR88, HR89, Hol85, KK86, LQ87, Mee83, MM88, NW84, Par86, SSS82, Sha87, Tis87, Tre85b, Tre86, Tre87, dH87]. **Toeplitz-plus-Hankel** [HR89, HR88]. **Topological** [Web86]. **Torgasev** [Bru89]. **Torus** [FG86]. **Tosio** [Cam84a]. **Total** [VV87b, VV87c, May87, Sch81b, Tru80]. **Totally** [And87b, Stu88b, BJ84b, Dem82, Fri85b, Ger89, Pin85, dBP82, dBJP82]. **trace** [And85b, FJMN85, KB89b, Mer84, PZ88, SS86, Ste81a]. **traces** [MSW83, WS80a, WS80b]. **Transfer** [Bar86, Dio89, Fuh83, GVK⁺83, WSCP89]. **transform** [Ger84, Par82, Tau80a, Ros80]. **Transformation** [Kau87, BHH87a, HS87, Kun81, Lin86, Tau83]. **Transformations** [Sch88, Bar83, Bar88b, Bea81a, Bea82, BHJ85, BFM89a, CL82c, EI87, Fia89, GLN84, GLN86a, GLN86b, HJ86c, HM86, KR81b, Loe89b, Loe89a, MK89, MW81, Pet82, PH81, RY85a, Syl86, Wat86, WH85c, You84, Poo81]. **transforms** [Gad88, Joh80, Vav88]. **transitive** [KB85]. **Translates** [DM83a]. **translation** [RSR89]. **transmission** [Caf81, KBM86]. **transportation** [BK80a]. **transpose** [Haa84, Tau80a]. **treatment** [Tam81b]. **tree** [JvdD88, JB85, JS89, Neu82a, SPZ82, Yua86]. **Treediagonal** [Kle82]. **trees** [Cve88, Wie85a, Yua89]. **Triadic** [PR88]. **triangles** [Tau82]. **Triangular** [ES86, Luk86, Bar89b, Bar83, BH88, BJ88a, Bar88b, DGK80, FH88b, HRS89, Ima83, SH88, Tre87, Urs82, Vei86]. **triangularizable** [CP85]. **Triangularization** [LQ87, Bar83, BJ88a, Bar88b, Laf80, Leu86, Wat80]. **Tridiagonal** [BCR88, Gad88, Ima83, Car84, CL86, CLLW87, DN84, GT89a, Grü81, GN82, JZ85, MS86]. **Tridiagonalization** [Stu88c, Lon88]. **Tridiagonals** [PNO85]. **trigonometrical** [ST81]. **trinomial** [GD84]. **trireflectionality** [Nie87]. **Trivalent** [Bee86]. **Truemper** [BR89b]. **Tseng** [BR89b]. **turns** [Djo82]. **Tutte** [Ger89, Wag89]. **twice** [Fer81]. **Two** [Bap87, BB89b, CM83, Els85, Fre87, MŽ83, SS87b, Ste87a, Wer89, Wim80, AS80, BQ85, Bec80, Bur86, CZ86, Cha85, DR80a, DALSP89, GL84, Jód88b, KH84, KN87a, KS84, Krä87, Laf80, Laf81a, McF80, Mes89, Mne89, Neu89, Nis85, OP82, Sha82c, Sha82a, She84, Tre85a, PN85]. **two-distance** [Neu89]. **two-linked** [DALSP89]. **Two-minor** [SS87b]. **Two-sided** [MŽ83]. **two-symbol** [DR80a]. **twos** [BM89c]. **Type** [Axe80, AN83, Ber86c, BNV82, DS89a, Fai89, IS89, Joh89, Kle88, Li88b, Oku87, Ptá81, Sch85, Wat87c, Yca82]. **Typical** [Lic85].

unbiased [Far85a]. **Uncoupled** [MSS84]. **Uncoupling** [Mey89]. **underrelaxation** [WN87]. **undirected** [Kar89]. **unification** [Mar81a]. **unified** [Bak85, NM85]. **unified-least-squares** [Bak85]. **Uniform** [MP89b, Hos86]. **unimodular** [Ger89]. **unimodularity** [Tru80]. **Unions**

[LW81]. **unipotent** [HS87]. **Unique** [HK83, Whi80]. **uniquely** [Tho89a]. **uniqueness** [Hoc87, Meh89, SB87, SB88, Tho82b, Wim84]. **Unit** [BWT89, EG89, SZ86, SZ89, Wat88a, Zie88b]. **Unitary** [BH87c, BM89b, Djo81, FH88a, Jam83, Jam88]. **unity** [FSZ85, SSZ83]. **Universidad** [BV89, GL85a]. **University** [BU84, BU88, OvdD88, Neu82b, dO83]. **Unmixed** [Wim85a]. **Unobservable** [She87a]. **unsolvability** [Sha83]. **Unstable** [LQ87]. **Unsymmetric** [Axe80, Saa80, FG80]. **unzulässige** [PN85]. **updates** [EN89]. **Updating** [PNO85, Pow87]. **upon** [CW80, Naz84]. **Upper** [Bar83, BJ88a, Bar88b, Bea84, RT85, DEHS84a, DEHS84b, Ima83, Leó88]. **Use** [PNO85, CMR81, Don85, MV88a, Won85]. **useful** [RY85b]. **User** [Cam81]. **Using** [AR87, SHW86, VV87c, Bar84a, Bar80b, DM83b, Fos86, FB81a, GH80, HRS88, LM88, MSW83, MW85a, WS80a, WS80b]. **Usmani** [Gov88a]. **USSOR** [MK88]. **Utah** [BU84, BU88, BU84, BU88].

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volume

[Ano89f, Ano89g, Ano89h, Ano89i, BN83, BB82b, BF83, DHLW85, GSV86b].
volumes [Ano81c, Ano84i, Ano86n, Ano88-28, Ano89u, Ano89j].

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walk-regular [GM80]. **walks** [Tak82]. **Walsh** [SSZ83]. **Walter** [GL85b].
way [Gal81, Tak85]. **Weak** [Bun87, Fri85b, Ish87, SK82, Wer87]. **weakly**
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 [Lee89]. **Wendroff** [FT84]. **Wheatstone** [AB87]. **which**
 [Bea81a, BS87b, Eva85, Gof81, HM86, Hug85, Loe89a, MK89, RS89, Sch84a,
 Tau80a, Wea83, Wea88, Wie85c]. **whose**
 [Ash87, Har81b, Laf80, Tow80, Wie85a, Wie85b]. **Wiegold** [Bea87a].
Wielandt [BS85b, DHL85, DHLW85, FN89, Sak85, TW89]. **Wiener**
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XAY [Sil87b].

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