

# A Bibliography of Publications about the *MACSYMA* and *VAXIMA* Symbolic Algebra Languages

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## Title word cross-reference

**#3** [Fit73]. **#4** [Fit73].  
 $(i + j, j)$  [Str85].  $F$  [PW85a].  $G$  [PW85a].  
 $\longrightarrow$  [Pit79].  $p$  [Wan79].  $\mathbf{Q}(\sqrt{2})$  [Deu93].  
 $\mathbf{Q}(\sqrt{3})$  [Deu93].  $r^t$  [BBR85].  $U(3) \supset SO(3)$   
[Dra01].  $x' = y$  [RK87].  $y' = 0$  [RK87].  $Z_p$   
[Str85].  
**-adic** [Wan79].  
**12th** [GE94]. **13th** [H<sup>+</sup>91]. **14th** [HSW83].  
**17** [TMH99]. **1974** [Jen74, Ros74]. **1977**  
[F<sup>+</sup>77]. **1979** [Lew79, Ng79]. **1980** [Ano80].  
**1981** [Wan81]. **1982** [Cal82]. **1983** [Gen83].  
**1984** [GH84, SS84]. **1985** [ACM85]. **1987**  
[Ear88]. **1988** [IEE88b, WGM88]. **1989**  
[Nel89]. **1991** [IEE91, PEK91]. **1992** [Fli93].  
**1993** [AAC93, GE94]. **1999** [TMH99].  
**1999/088** [TMH99]. **19th** [Hei87].  
**2** [BH95]. **2.1** [Fel96]. **20th** [WGM88].  
**4-17** [Ear88].  
**54Th** [Ano84]. **578** [BR73].  
**6000** [Str74]. **6000/7000** [Str74].  
**7000** [Str74]. **'74** [Jen74]. **'79** [Ng79, IJC79].  
**'81** [Wan81]. **'85** [Buc85, Cav85]. **'86**  
[Cha86]. **'89** [ACM89, Nel89].

'90 [Mio90, WN90]. '91 [Wat91]. '92 [Wan92]. '94 [ACM94].

**Accelerator** [IEE92a, BFBZ92]. **ACM** [ACM85, ACM89, Pet71, Wan81].

**ACM-SIGSAM** [ACM89]. **Adaptive** [RH86]. **Addendum** [FG80, Fat82a, Mat80].

**adic** [Wan79]. **Advanced** [Ear88, JS87].

**Aerodynamics** [Meh86]. **aid**

[Cre89, Cre90a, Fra84]. **Aided** [Ban84, Rei81, Wan84, DJ89, ET88a, ET88b, GJK88, MS91, WS91a, WS91b, WS92].

**Algebra**

[Cav85, DST88, Fat81, GCL92, Gol86, GKW03, HWH91, HN85, Jen84, Koe92, KLW90, KWW92, NMM90, Pav85c, Pav86, Rei81, Sua84, YP91, van82, AP90, Ben98, BFBZ92, Cal82, Che88, CP92, Fat15, FP95, HT90b, Kut88, Lan89, LR08, Mat89b, MT94, PF95, Ran84, Ran87, RA87, Ran94, Roe95, SH10, TTDD91, TM89, TH94, Way90, Sch84].

**Algebra-System** [KWW92]. **Algebraic**

[ACM89, ACM94, Bre84, Cha86, DST88, Eng76, FFF<sup>+</sup>84, Mos71a, Mos71c, Pet71, TM89, Wan81, Wan92, WN90, Wat91, BF72, DST87, DS81, Fat15, GJK88, Mar71b, Ng79, Sas86, Str74, TH90, Tra84, Una88].

**algébriques** [DST87]. **ALGOL** [PI64].

**Algorithm** [Baj86, RH86, Wan79, Wan82, CG90, GHR10, Mos69, MY73, TM85].

**algorithmes** [DST87]. **Algorithmic**

[Koe93]. **Algorithms** [DST88, GCL92, BMM90, DST87, SB89, Zip79]. **ALPAL**

[Pai92]. **Alternative** [Coo84, Fat15].

**alternor** [MSI90]. **American**

[AAC93, PEK91, SS84]. **analog** [SDF88].

**Analysis**

[AM90, Ban84, BMS88, Cha92, Cre89, DS81, JM87, Mag89, RW86, SC87, SK86, Wan84, WKB86, AM89, Cre90a, Cre90b, ET88a, ET88b, ET89, GD93, HFO94, HT90b, Hol86, Ols92, Ran88, SDF88, WS92, MS91].

**analytic** [Dra01, Fra84]. **Analytical**

[HJL91, WH84a, WS88]. **Angeles** [Pet71].

**anisotropic** [CHH91]. **Annual**

[Gra94, PEK91, SS84]. **annuli** [TTDD91].

**Anwendung** [Ben98].

**Anwendungsbeispielen** [BH95].

**Application** [Ari89, Baj86, CTZY90, CD82, CD87, EM87, Hol88, JM87, Kwo91, MR85a, MR85b, SH84, VGT90, YP91, BF72, Fat15, HFO94, KoTRLoE77, yS88, Wan91].

**Applications** [AM89, ET89, GKW03,

Har84, MAC84, HT90b, HN83, IEE93,

IEE88b, Mej84, Par86, Pav85a, Pav86,

Wan94, BH95, HLTH94, NC79, Par84,

Pav85b, PH86, Ran87, TD90, Ham89].

**Applied** [SCG88, Sua84, AP90, Akm88,

HN83, PL87, Ran84]. **Approach**

[FKM95, GBC92, RS85, HJL91].

**approaches** [GJK88]. **Approximate**

[TT88, GHR10]. **Approximation** [CCF84].

**approximations** [Gil95]. **April** [Cal82,

Cav85, IEE86, IEE88a, Mio90, WGM88].

**Arbeiten** [KLW90, KWW92]. **Arbitrary**

[Fat76]. **Arising** [SH84, Deu93].

**Arithmetic** [Fat76]. **Arrow** [GD93].

**Articles** [SS73]. **Artificial** [IEE88b, IJC79,

PH86, Nor91, WS91a, WS91b, WS92].

**ASAP** [BFBZ92]. **ask** [Mac97b, Mac98].

**ASME** [H<sup>+</sup>91, KRB<sup>+</sup>90, G. 86].

**Associated** [BH87, Rei81]. **astro** [DJ89].

**astro-geophysics** [DJ89]. **Asymptotic**

[CCF84, Lo85, BT88, Ski93]. **Atlanta**

[PEK91]. **Aufstellung** [RAKK88]. **August**

[Ano80, IEE88c, IJC79, Jen74, KRB<sup>+</sup>90,

Ros74, Wan81, WN90]. **Australia** [GE94].

**Austria** [Cav85]. **Automated** [Gen77,

HJL89, LH84, LH86, MD88, Gen79, SS84].

**Automatic**

[GE94, JL94, LG86, Mär86, Mac83, Pow84,

SR88, Wan71a, Gat84, Sla61, GE94].

**automating** [Cre90b]. **Automation**

[IEE86, IEE88a, SDF88]. **Autonomous**

[LMR90]. **available** [Way90]. **averaging**

[CR91]. **axes** [BFMS87]. **AXIOM**

[Ben98, Ben98, Grä96].

**b** [GM82]. **Band** [IL88]. **Based** [Meh86, BSZ93, Fav79, GW84, GJK88, Kow86, SR90]. **beam** [Cre90a, LHC92, TYL89]. **bearing** [HT90b]. **Beijing** [IEE88c]. **Bending** [Ban84, SC87]. **Bergmann** [TM85]. **Berkeley** [F<sup>+</sup>77, FFF<sup>+</sup>84]. **Bernoulli** [TYL89]. **Bessel** [SC90]. **Best** [Sto84]. **between** [fHR93]. **Bibliography** [SS73, Sym87b]. **Biennial** [H<sup>+</sup>91]. **Bifurcation** [HT84, Mag89, RA87]. **Biomathematics** [Mej84]. **Bodies** [Mac83]. **Body** [JM85, MR85a, MR85b]. **Bonn** [Wat91]. **book** [RCF98]. **Books** [SS73]. **Bordeaux** [Flu93]. **Boson** [ANGK<sup>+</sup>87]. **Boston** [KRB<sup>+</sup>90]. **Boundary** [SH84, TG90, CS90, Mae87]. **boundary-value** [Mae87]. **Brighton** [IEE93].

**c** [GM82, Mår86, SH10]. **CA** [Nel89]. **CAD** [Ear88]. **Calcul** [DST87, Sir70]. **calculating** [WS88]. **Calculation** [Koe93, CHW91, JL94]. **Calculations** [Wol79, HN83]. **calculus** [DST87, Fel98, BIG01, Sir70, Sla61, TM89]. **California** [AAC93, Ano80, F<sup>+</sup>77, FFF<sup>+</sup>84, IEE88b, Pet71, IEE86, IEE92a]. **can** [Mac97b, Mac98]. **cantilever** [Cre89]. **Capabilities** [Fel96, Pav85a, Pav86, Fat71, Pav85b]. **Capri** [IEE92b, Mio90]. **Case** [JM85, Nor91]. **CDC** [Str74]. **celestial** [CD02]. **Centre** [IEE93]. **centroids** [Mat89a]. **changes** [LHC92]. **Channel** [EM87]. **chaos** [Una88]. **Characterization** [FF81]. **Chebyshev** [EF89]. **chemically** [HCR91]. **chemistry** [PH86]. **Chicago** [G. 86]. **China** [IEE88c, IEE88c]. **Ciocco** [Ear88]. **circuit** [SDF88]. **Circular** [BFHS92, BFMS87, Fra84]. **Civil** [Top89, Top89]. **Civil-Comp** [Top89]. **class** [Mos69]. **Classical** [CD02]. **Clebsch** [Dra01]. **Clifford** [TM89]. **Closed** [BBR85, Man93, SC90, Fab93, TRC92, WH84b]. **Closed-Form** [BBR85, SC90, WH84b]. **closed-loop** [Fab93]. **Closure** [Rei81]. **CMS** [HNS87]. **Coalescing** [CCF84]. **coaxial** [fHR93]. **Code** [GW84, LG86, SR84, Ari89, BGV94, CS87, CS89, Gat84, Mår86, SR88]. **codes** [Cah90, RAKK88, RAKK88]. **coding** [Mar71b]. **coefficients** [Dra01]. **collection** [GM82, Tha89a, Tha89b]. **college** [Tha89a, Tha89b]. **Colloquium** [TMH99]. **column** [CVG94]. **Combination** [IL88]. **Combining** [Wan85]. **Comfortable** [Ano95a]. **Common** [BFHS92, BFMS87, Nor91]. **Comp** [Top89]. **Comparative** [JM85, CVG94]. **Comparison** [KSB92, NW83, SP93, TS00, GJK88]. **Competition** [Gra94]. **Complex** [BS84, HN85, KoTRLoE77, Ray88]. **composite** [KSB92, NNM91]. **Compressable** [CS79]. **comprise** [CVG94]. **Computation** [ACM89, ACM94, BHY88, Cha86, CDW90, Cre90b, DST88, SCG88, HCR91, Ous91a, Ous91b, PK88, Ros85, TMH99, VGT90, Wan81, WN90, Wat91, Wol85, Bau88, BKK76, CS90, Cre90a, HLTH94, KoTRLoE77, Lan88, LS96, Mio90, NC79, Ng79, OA89, OA91, Ran88, Sre92, Tob71, TM85, TS00, VT92, Wan71a, War90, YW87, Wan92]. **Computational** [Ber84, Gol84, Meh86, Wan85, PEK91]. **computations** [BMM90, Her88]. **compute** [Mat89a]. **Computer** [AP90, Bre84, Cal82, Cav85, DST88, DJ89, Fat81, GCL92, BIG01, GKW03, HWH91, HSW94, HSW98, HN85, ILT87, Jen84, Koe92, K LW90, KWW92, Lan89, Mac83, Mar71a, NMM90, Pav85c, Pav86, Ran84, Ran87, Rei81, Sua84, TH94, WS91a, WS91b, WS92, YP91, van82, Ari89, Ben98, CHW91, CTZY90, Che88, DS81, Ear88, ET88a, ET88b, Fat15, FP95, GJK88, HT90b, LR08, Mat89b, MT94, Nel89, PF95, RM76, RA87,

Ran94, Roe95, Sir70, SH10, Way90, Cal82, Gen83, Hei87, HSW83, MS91, Nel89, Sch84].

**Computer-Aided** [Rei81, DJ89, ET88a, ET88b, GJK88].

**Computer-Algebra-Systemen** [KLW90].

**Computer-supported** [BIG01].

**Computeralgebra** [Ben98].

**Computeralgebra-Systemen** [Ben98].

**Computerized** [NA79, Cre89].

**Computers** [Bar90, Dev94a, Dev94b, Dev94c, G. 86, KRB<sup>+</sup>90, Sym86b, KRB<sup>+</sup>90].

**Computing** [CS79, CF80, CG90, Dek83, JS87, Man93, Top89, AM89, DM93, Dra01, ET88a, ET88b, WGM88].

**concentrated** [Fra84].

**concept** [WS83].

**cones** [BFMS87].

**Conference** [AAC93, Ano80, Cal82, Cav85, F<sup>+</sup>77, GH84, Gra94, G. 86, H<sup>+</sup>91, IEE93, IEE86, IEE88b, IEE88c, IEE88a, IEE91, IEE92a, IEE92b, IJC79, KRB<sup>+</sup>90, Lew79, Top89, Ano80, IEE92a].

**conferences** [H<sup>+</sup>91].

**Congress** [GE94, Nel89, Ros74].

**Congruent** [BFHS92, BFMS87].

**Connected** [Mac83].

**Considerations** [Lue77].

**constitutive** [TDA88].

**constraints** [TM85].

**Constructing** [Gil95].

**Construction** [CDA90, Her83, Wan79].

**Consultant** [Gen77].

**consultation** [Gen79].

**Contribution** [Sir70, Sir70].

**Contributions** [Cav85].

**Control** [AAC93, BMS88, GE94, ILT87, ML87, RH86, TMH99, ABC<sup>+</sup>88, ET88a, ET88b, ET89, Fli93, GFB<sup>+</sup>93, HLTH94].

**Controlled** [WKB86, Fab92, Fab93].

**controller** [LS96].

**controls** [SS84].

**Convection** [Mag89, TTDD91].

**converter** [GFB<sup>+</sup>93].

**converter-machine** [GFB<sup>+</sup>93].

**Corrections** [Cel84].

**Coulomb** [BBR85].

**coupled** [Her91].

**courses** [TH94].

**crack** [KSB92, LHC92].

**crack-induced** [LHC92].

**Criteria** [Yag84].

**criterion** [Una88].

**Critical** [NMM90].

**Crow** [CVG94].

**CTRL** [Mår86].

**CTRL-C** [Mår86].

**Current** [Pad85, Raj87].

**Cybernetics** [IEE88c].

**cyclically** [MSI90].

**Cylinders** [BFHS92, fHR93].

**Cylindrical** [Ban84, SP93].

**dame** [Way90].

**Data** [CS79, Whi77a, Whi77b].

**Databases** [LMR90].

**DC** [Lew79].

**Decade** [Mos71d, Mos71b].

**December** [PEK91, SS84].

**Decoupling** [CD82].

**Definite** [Wan74, Wan71b, Wan71c].

**definition** [MSI90].

**Deformation** [Ban84].

**Degenerate** [RK87].

**Degree** [HT84].

**Demonstrations** [DS81].

**Derivation** [LH84, LH86, MD88, DJ89, TDA88, WS92].

**DERIVE** [Ben98, Ben98, KLW90, KWW92].

**Describe** [GBC92].

**Design** [Cha88, CFG<sup>+</sup>84, GE94, ILT87, SK86, ABC<sup>+</sup>88, AM90, BSZ93, BFBZ92, ET88a, ET88b, ET89, Fli93, Gat84, HJL89, HLTH94, H<sup>+</sup>91, LS96, SDF88, Mio90].

**Determinacy** [RK87].

**Determining** [Mar71b].

**Development** [Pad85, Raj87].

**Diagram** [Wol79].

**Diego** [IEE88b].

**Difference** [Yag84, SR88].

**Differential** [Har84, HV87, Her83, Mil93, Ous91a, RW86, Rei81, WH84a, Woo84, Bey79, CHW91, CG90, Gol77a, GHR10, Kwo91, Mat89b, RB91].

**Differentiation** [Gol85, Wan94, WS84, JL94, WS83].

**Difficulties** [Wan82].

**Diffusive** [Mag89].

**Dimensional** [Eng84, Wel72].

**Dirac** [BBR85, TM85].

**direct** [HT90a].

**directed** [RB91].

**Directions** [JS87].

**DISCO** [Mio90].

**discontinuities** [AP90].

**Discrete** [NTT90, CDA90].

**Discrete-time** [NTT90].

**dispersion** [RAKK88].

**Dispersionsgleichung** [RAKK88].

**Disturbances** [LF87].

**DMS** [BR73].

**documentation** [GM82].

**DOE** [HC85].

**DOE-MACSYMA** [HC85].

**Double** [JM88, Mag89, TRC92].

**Double-Diffusive** [Mag89].

**double-spiral** [TRC92].

**Driven** [WKB86].

**drives** [GFB<sup>+</sup>93].

**drudgery** [Str90].

**Dynaman** [SK86].

**Dynamic** [LH84, LH86, MD88, NTT86, GJK88, LS96].

**Dynamical** [HN85, Ous91b, Una88].  
**Dynamics** [JM85, Meh86, Cre90a, Cre90b, H<sup>+</sup>91, Ran94].  
**easy** [GM82]. **economy** [War90]. **Editor** [Pai92]. **Educating** [Gra94]. **Education** [Gra94, VT92]. **Efficient** [SC87]. **eigenfrequency** [LHC92]. **eight** [SP93]. **Einführung** [BH95]. **elastic** [TT88]. **electromagnetics** [Ari89, TS00]. **Electromechanical** [GBC92]. **Electronics** [IEE93]. **Elemental** [SC87, Wan84, H<sup>+</sup>91]. **elementary** [FP95, PF95, Ric68, Rit48]. **elements** [CTZY90, CS90]. **Elimination** [Bey84, Mos66a]. **Elliptic** [TG90, CR91]. **Encyclopedia** [RM76]. **Engine** [WKB86]. **Engineering** [IEE92b, Pav85a, Pav86, Top89, ABC<sup>+</sup>88, G. 86, HSW94, KRB<sup>+</sup>90, Lan88, Lan89, Nel89, OA89, OA91, Pav85b, TD90, TH94, War90, Ben98]. **Engineers** [Gra94, PEK91, SS84]. **engines** [RAKK88]. **England** [ACM94, Top89]. **enhance** [TH94]. **Enhancement** [Ray88]. **Enumeration** [Del91]. **Environment** [BS84, Ber84, Pur85, Ray88, Sre92]. **Environments** [ACM85, Car84]. **Equation** [Mil93, Rei81, WH84a, CP92, Gol77a, TD90, TYL89]. **Equations** [Bey84, Har84, HV87, Her83, HN85, LH84, LH86, Mac83, MD88, RW86, Woo84, Yag84, Bey79, CDA90, CHW91, DJ89, Fod78, Fra84, GHR10, HT90a, Her91, Kwo91, Mat89b, Mos66a, RB91, RAKK88, TDA88, TV89, WH84b]. **Equilibria** [RK87]. **equivalence** [Mar71b]. **Equivalent** [HN85]. **Error** [VGT90, BMM90]. **error-free** [BMM90]. **Errors** [Cel84]. **estimators** [BT88]. **Euler** [TYL89]. **EUROCAL** [Cav85, Buc85]. **EUROCAM'82** [Cal82]. **Europa** [IEE92b]. **European** [Cal82, Cav85, IEE93]. **EUROSAM** [Ng79, Jen74]. **evaluate** [Lun86]. **Evaluating** [Cut84]. **Evaluation** [Wan71b, Wan71c, Wan74, Str74]. **evolution** [HT90a, Her91]. **Exact** [Her91, CDA90, Roe95]. **Examples** [Koe93]. **exchanger** [TRC92]. **Excitation** [IL88]. **excited** [Cha92]. **executing** [Lan80]. **Executive** [Spi86]. **executor** [Fav79]. **Exhibition** [G. 86]. **expansion** [Nei80]. **expansions** [Ski93]. **experiences** [CVG94]. **Experimental** [Cha88]. **Experiments** [LG86]. **'expert** [Lan87, BT88, Cla90, Ham89, ILT87, KWW92, Raj87]. **Expertensysteme** [KWW92]. **explained** [GM82]. **Exposition** [KRB<sup>+</sup>90]. **expression** [Sas86]. **Expressions** [BBR85, Bre84, Mar71a, Mar71b, Str74, SC90]. **extension** [PI64, WS83]. **EZ** [MY73].  
**F** [PW85b, PW85c]. **facilities** [Kut88]. **Facility** [Pow84, Grä96]. **Factoring** [Baj86, WR75, Wan79]. **Factorization** [NW83]. **factors** [Mig87]. **Fairfax** [WGM88]. **Families** [Her83]. **Fast** [BMM90, JL94]. **Federation** [GE94]. **Feedback** [Fab93, Fab92]. **Fermion** [ANGK<sup>+</sup>87]. **Feynman** [Wol79]. **fiber** [KSB92]. **field** [RS89, WS88]. **Fifteenth** [Gen83]. **Fifth** [Mos74, IEE93]. **Filtering** [LG86, Sua84]. **finally** [Way90]. **Finite** [DM88, Ous91b, Rit48, RS89, Wan84, Yag84, CTZY90, Ris69, Ris70, SR88, SR90]. **finite-volume** [SR90]. **Finitely** [DM93]. **First** [Man93, Bey79]. **Five** [Wol84]. **Flexible** [NTT86, TYL88, Fab92, NTT90, TYL89]. **flexible-link** [TYL89]. **Floating** [Fat76]. **Florida** [H<sup>+</sup>91]. **Flow** [EM87, YP91, Che88, fHR93]. **flowfields** [HCR91, OM92]. **flows** [HCR91]. **Fluid** [BHY88, EM87, Meh86, NMM90, YP91, fHR93, Ros85, yS88]. **Forcing** [AG87]. **Form** [BBR85, Man93, Str85, PK88, RB91, SC90, TRC92, WH84b]. **Formal** [Koe93, CG90, Sir70, DST87]. **formel** [DST87, Sir70]. **Formelmanipulation** [KLW90]. **Formelmanipulationssystemes** [Lue77]. **Forms** [CD87, CDW90, Deu93].

**Formula** [Lue77, K LW90]. **formulae** [PI64]. **formulas** [HSW94, HSW98, WS88]. **Formulating** [JM85]. **Formulation** [Cre90a, HN85, RS85]. **FORTTRAN** [Cah90, Pit79, RAKK88, SR86, BGV94, Lan80, LG86, SR84]. **FORTTRANHybrid** [RAKK88]. **Forum** [Ano95b]. **Foundations** [GKW03, Ear88]. **Four** [CCF84]. **Fourier** [SC90]. **Fourth** [Gra94, IEE88b, IEE92b, Top89]. **fraction** [Nei80]. **France** [Cal82, Fli93, Ng79]. **Francis** [AAC93]. **Francisco** [AAC93, IEE88b, IEE92a, Nel89]. **Franklin** [IEE88a]. **free** [BMM90]. **Freedom** [HT84, GD93]. **Frencg** [Sir70]. **French** [CS89, DST87]. **freshman** [Sla61]. **Friend** [Slo86]. **Friendly** [Spi86]. **Frontiers** [Gra94]. **Functional** [JM87, Sta84, WS83]. **Functions** [Mos72, CR91, Gol85, Har05, Hol86, Lun86, Mos69, Ric68, SC90, Tra84]. **Future** [Raj87].

**G** [PW85b, PW85c]. **gain** [Fab93]. **Gait** [JM87, JM88, LF87]. **Galerkin** [Gil95]. **gases** [CDA90]. **gauge** [Cah90]. **GCD** [MY73]. **geared** [DM88, DM93]. **General** [Mos72]. **generalized** [MSI90]. **Generate** [GBC92, GFB+93]. **generated** [WH84b]. **générateur** [CS89]. **Generating** [Ous91b, Lan80]. **Generation** [LG86, Mac83, RS85, BGV94, EF89, Mår86, SR88]. **Generator** [GW84, CS87, CS89, Gat84]. **generators** [Cha92]. **GENTRAN** [BGV94]. **GENTRANs** [Kea91]. **Geography** [Gol84]. **Geometric** [Baj86, Her83]. **geometrical** [TM89]. **Geometry** [Akm88, Tha89a, Tha89b]. **geophysics** [DJ89]. **Georgia** [PEK91]. **German** [Ano95a, Ben98, BH95, K LW90, K WW92, Lue77, RAKK88]. **Germany** [Wat91]. **GI** [YW87]. **GI/S** [YW87]. **Global** [GBC92, HJL91]. **globally** [HJL89]. **Gordan** [Dra01]. **Gradient** [NC79]. **grande** [Way90]. **graphical** [YW87]. **graphics** [Akm88, Ear88, Mac95a]. **graphs** [RB91]. **Grid** [RS85]. **Gripenberg** [CVG94]. **Ground** [ANGK+87]. **Ground-State** [ANGK+87]. **group** [Bey79]. **Guide** [HWH91, Mos71c, Sym87a, Sym88a, Ano88, Ano92, Mac95c, Mos71a]. **Gustaf** [CVG94].

**Habitats** [Gol84]. **Hacijan** [Wan82]. **Hamiltonian** [TM85]. **Handbook** [GKW03]. **Hands** [BH95]. **Hands-on** [BH95]. **Harbor** [IEE88b]. **harmonic** [DJ89]. **hash** [Mar71b]. **having** [TT88]. **Heat** [BHY88, Che88, PEK91, TRC92]. **Hecke** [CD87, Deu93]. **held** [Ear88, F+77, Lew79]. **Help** [Gon83, Mac97b, Mac98, Mar87, RAKK88]. **Heuristic** [Mon92, Sla61]. **high** [OM92]. **high-speed** [OM92]. **Higher** [Far89, Ros85, SP93]. **higher-order** [Ros85, SP93]. **Hilfe** [RAKK88]. **Hilton** [IEE86, Nel89]. **Hinge** [Mac83]. **Hinge-Connected** [Mac83]. **Historical** [Whi77b]. **history** [Mos12]. **Homogeneous** [Mil93]. **Hopf** [HT84]. **Hotel** [AAC93, IEE88b, IEE88a, IEE92b]. **Houston** [Gen83]. **Human** [JM88]. **Hybrid** [Sre92, CTZY90, RAKK88]. **hybrid/mixed** [CTZY90]. **hypergeometric** [Gos77]. **hypersonic** [HCR91].

**IASTED** [Ham89]. **iconic** [Ols92]. **Identities** [Deu93]. **IEEE** [IEE86, IEE88c, IEE88a, IEE91, IEE92a, ML87]. **IFAC** [Fli93]. **IFIP** [Ros74]. **II** [CD87, The83b, Mos66c]. **IJCAI** [IJC79]. **IJCAI-79** [IJC79]. **Illinois** [G. 86]. **Illustration** [Cha88]. **Imaging** [SH84]. **implement** [CR91]. **Implementation** [Car84, CG90, Fat76, Lue77, ZZ86, CTZY90, Gat84, Mio90]. **Implementations** [WS84]. **implémenté** [CS89]. **implemented** [CS89]. **Implementierung** [Lue77]. **Implications** [JS87]. **Improved** [Fel96, YW85, Cla89b]. **Improvements** [Wan82]. **including** [SH10].

**Indefinite** [Gos77, Wan94, Wan91].  
**Indexed** [Wan94]. **induced** [LHC92].  
**induction** [Cha92]. **Inequalities** [Mig87].  
**inexpensive** [Ano95a]. **Infinite** [Cut84].  
**Information** [Ros74].  
**Ingenieurmathematik** [Ben98]. **input**  
 [Mar71a]. **input/output** [Mar71a].  
**Instabilitäten** [RAKK88]. **instabilities**  
 [RAKK88]. **installment** [CVG94].  
**Institute** [Ear88, Jen74]. **instruction**  
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 [Mig87]. **Integers** [WR75]. **Integrals**  
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 Wan71b, Wan71c]. **integrated** [Fre81].  
**Integration** [ABC<sup>+</sup>88, Fat81, Mos67a,  
 Mos67b, Mos71d, Rit48, Tra84, Wan94,  
 Bey79, Fat15, Har05, Mos66c, Mos66b,  
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**integrator** [Sla61]. **Intelligence**  
 [IEE88b, IJC79, Nor91, PH86]. **Intelligent**  
 [ML87]. **Interaction** [IL88]. **interactions**  
 [BKK76]. **Interactive** [Spi86, Fav79, Lit76].  
**Interface** [Gen83, WGM88, Mac95a, Ols92,  
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**Internal** [IL88]. **International**  
 [ACM89, ACM94, GE94, G. 86, Ham89,  
 IEE86, IEE88c, IEE88a, IEE91, IEE92b,  
 IJC79, KRB<sup>+</sup>90, ML87, Mio90, Ng79, Top89,  
 Wan92, WN90, Wat91]. **Interoperability**  
 [LMR90]. **interphase** [KSB92]. **intersect**  
 [BFMS87]. **Introduction**  
 [BH95, SCG88, Gol82, Lew76a, Mac97a,  
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 GM82, Lew75, Lew76b, Lew78, GF80,  
 Ran84, Sym85b, Tob71]. **Introductory**  
 [GM82, Mat74]. **Introduksjon** [MH83].  
**invariant** [Gil95]. **inverse** [Cla89a].  
**investigation** [RAKK88]. **investigations**  
 [WS91a, WS91b]. **involving** [Ric68].  
**Irreducibility** [Mon92]. **Island** [IEE88b].  
**isotropic** [Far89]. **ISSAC**  
 [ACM89, Wan92, Wat91, ACM94, WN90].  
**Issues** [ACM85]. **Italy**  
 [Ear88, Mio90, IEE92b]. **Ivie** [Cel84]. **IZIC**  
 [FKM95].

**Jacobian** [JL94, NC79]. **Jacobians** [Pai92].  
**January** [ML87]. **Japan** [WN90]. **John**  
 [Cel84, CVG94]. **Joint** [IEE91, IJC79].  
**Jordan** [Str85]. **journal** [HT90b]. **July**  
 [ACM89, ACM94, Cha86, Ear88, F<sup>+</sup>77,  
 GH84, GE94, G. 86, Wat91]. **June**  
 [AAC93, ACM85, Fli93, IEE92b, Lew79,  
 Ng79, TMH99].

**Kalman** [Sua84]. **Karman** [Fra84].  
**Kinematic** [LF87, DM88, TV89].  
**Kinematics** [ZZ86]. **kinetic** [CDA90].  
**Kingdom** [ACM94]. **Knowledge**  
 [IEE92b, Kow86, Meh86]. **komfortabel**  
 [Ano95a]. **Kriging** [Mar87].

**lab** [RCF98]. **Laboratory**  
 [Mar67a, Mar67b]. **Laminar** [EM87].  
**laminated** [NNM91]. **Langley**  
 [DCC85, DeL87]. **Language**  
 [ACM85, Jen84, Mur85, Sta84, GFB<sup>+</sup>93,  
 Mac97b, Mac98]. **Languages**  
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 [Mos07]. **Light** [WKB86]. **Light-Driven**  
 [WKB86]. **like** [Fat87]. **likelihood** [Lun86].  
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 [Cav85]. **Liouville** [Rit48]. **liquids** [Roe95].  
**LISP** [Ano80, CF80, GW84, Nor91, Pad85,  
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**LISP-based** [GW84]. **LISP-Machine**  
 [Pav85c]. **List** [RAKK88]. **Lists** [PT60].  
**load** [Fra84]. **loading** [Far89]. **Local**  
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**London** [Top89]. **long** [Cah90]. **look** [CVG94]. **loop** [Fab93]. **Lösung** [RAKK88]. **Louisiana** [SS84].

**Machine** [Sta84, GFB<sup>+</sup>93, Pav85c].

**Machinery** [H<sup>+</sup>91]. **MACLISP** [Whi77b].

**MacroTeX** [CS87, CS89, CS89].

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[Ben98, F<sup>+</sup>77, GH84, KLW90, KWW92, Lew79, MM70, Ano95a, Ano97, Ano75, Ano78, Ano88, Ano92, Ari89, BS84, Ban84, Ben98, BKK76, Bey84, BR73, BGGD77, BG83, Bog83, Bog86, Bra89, Cah90, Car84, Cel84, Cha88, CS89, Che88, Cla89b, Coo84, CR91, Cut84, DCC85, DeL87, DS81, Dri84, EF89, Fat71, FG80, Fat82a, Fat82b, Fat87, Fav79, Fit73, Fod78, Fra84, Gen77, GFB<sup>+</sup>93, SCG88, Gil95, Gol77b, Gol77a, Gol79, GM82, Gol82, Gol85, Gos77, Mat75, Mat77, Mat83b, Har84, MAC84, HC85, Hel91, HNS87, HV87, HT90a, Her91, HT84, Hol86, HN83, Ivi77, Kea91, KoTRL0E77, KLW90, KWW92, Kwo91, Lew75, Lew76a, Lew76b, Lew78, Lit76, Lo85, Lun86, Mag89, Mar87, MF71, MAT83a, The83a, The83b, Mat71, Mat74, GBoT74, MB75]. **MACSYMA** [Gro78, Mat80, GF80, GoTLfCS83, MH83, Mos74, Mos75, Par84, Par86, PW85a, Pav85b, PW85b, PW85c, Pav85c, Pro74, PL87, Ran84, Ran87, Ray88, RAKK88, Ros85, SH84, SB89, Slo86, SR90, Sym84, SM84, Sym85a, Sym85b, SM85, Sym86b, Sym86a, Sym87b, Sym88b, yS88, Tha89a, Tha89b, TG90, TM85, TV89, Wan84, WS83, WH84b, Wol79, Ano95a, BH95, CDA90, CS87, CG90, Cla90, CD82, CVG94, Del91, Dra01, EM87, Fat76, Fat89, Fel96, Fel98, FF81, Fre81, GBC92, Gol84, Gol86, Gon83, Grä96, Gui89, Ivi78, JM85, Lan80, Mår86, Mil93, MR85a, MR85b, Mos12, Ols92, Ous91a, Ous91b, Pav85a, PK88, RW86, RK87, RCF98, RDBE87, RS89, Spi86, SR86, Sym87a, Sym88a, Wan74, Way90]. **MACSYMA-Aided** [Ban84, Wan84]. **MACSYMA-FORTRAN** [RAKK88].

**MACSYMA-FORTRANHybrid-Codes**

[RAKK88]. **MACSYMA-generated**

[WH84b]. **MACSYMA-like** [Fat87].

**MACSYMS** [Cla89a]. **Magnetic**

[SH84, WS88]. **Mainframe** [Way90]. **Man**

[IEE88c]. **Management** [Pur85].

**manipulating** [PI64, Wan91].

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[CD87, Eng76, FFF<sup>+</sup>84, Lue77, Mej84, Ng79, NA79, PT60, Pet71, TYL88, Cre89, DST87, DS81, EF89, ET89, GJK88, HFO94, Hol88, KLW90, Mat89a, Wan71b, Wan71c].

**manipulations** [DST87, RS89].

**manipulative** [BF72]. **Manipulator**

[SK86, Lo85, TH90, TV89]. **Manipulators**

[LH84, LH86, NTT86, TYL88]. **Manual**

[Bog83, Fat82a, Mat77, Mat83b, MAT83a,

The83a, The83b, Str74, BGGD77, BG83,

Bog86, FG80, Mac88, Mac93a, Mac93b,

Mac95a, Mac95b, GBoT74, MB75, Mat80,

GoTLfCS83, Pro74, SM84, SM85, Sym88b].

**Manuals** [SS73]. **manufacturing** [SS84].

**MAPLE** [Ben98, Ben98, CFG<sup>+</sup>84, CVG94,

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**March** [Gen83, IEE88b, Pet71]. **Mario**

[CVG94]. **Marseille** [Cal82, Ng79].

**Massachusetts** [KRB<sup>+</sup>90]. **Matched**

[Ski93]. **matching** [Fat71, Fat15, Lo85].

**material** [Far89]. **Math**

[Bet90, Way90, Mac97b, Mac98].

**MATHCAD** [Ben98, Ben98].

### **MATHEMATICA**

[Ben98, KWW92, Ben98, Grä96, SH10].

### **Mathematical**

[CHH91, FKM95, KWW92, Mar67a, Mar67b,

Wol85, Mar71a, Pet88, Str90, Tob71, War90].

### **Mathematics**

[CVG94, Dev94a, Dev94b, Dev94c, Bar90,

Ben98, HN83, Mac88, Mac93a, Mac95b,

Pet88, PL87, Ran84, Ano95a]. **Mathematik**

[Ano95a]. **Mathematische** [KWW92].

**Mathlab** [BR73, FG80, MM70].

**Mathlab/MIT** [FG80, Mat80].

**MATHLAP** [Ben98, Ben98]. **matrices**



[JL94]. **Matrix**  
[Mil93, Pai92, BMM90, WH84b]. **Matter**  
[ANGK<sup>+</sup>87]. **MAX** [CVG94]. **Maxima**  
[GHR10, LR08, SH10]. **May**  
[IEE92a, Nel89]. **Meandering** [EM87].  
**Measuring** [Ber84]. **Mechanical**  
[H<sup>+</sup>91, PEK91, SS84, AM89, AM90].  
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[BHY88, NA79, CD02, CS90, SH10, yS88].  
**mechanisms** [DM88, DM93].  
**Mechanization** [TV89]. **media** [CHH91].  
**Medienkombination** [Mac98]. **Meeting**  
[PEK91, SS84]. **Method**  
[TYL89, CTZY90, HT90a, JL94, OM92].  
**Methods**  
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**Miami** [H<sup>+</sup>91]. **microcomputers** [Kut88].  
**Micropolar** [EM87]. **microstrip** [AP90].  
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[BR73]. **MIT-Mathlab** [BR73]. **mixed**  
[CTZY90]. **Mixtures** [NMM90]. **Modal**  
[IL88, Fab93]. **mode** [GD93, LS96]. **model**  
[Ols92]. **Modeling** [TYL88, VGT90,  
CHH91, NTT90, Pet88, TT88]. **Modelling**  
[NTT86, TH90]. **Models**  
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**Modular** [CD87, GBC92, Deu93].  
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**Motion** [HN85, LH84, LH86, Mac83]. **MPD**  
[RAKK88, RAKK88]. **MPD-engines**  
[RAKK88]. **MPD-Triebwerken** [RAKK88].  
**Muddle** [BR73]. **MUFIE** [Spi86]. **Multi**  
[HT84]. **Multi-Degree-of-Freedom**  
[HT84]. **multibody** [Sre92]. **Multiple**  
[AG87, LMR90, Mag89]. **Multiply**  
[Bet90, DM88, DM93]. **multiterm** [Sas86].  
**multivariable** [Hol86]. **Multivariate**  
[WR75]. **muMATH** [Kut88].  
**muMATH-algebra** [Kut88]. **MuPAD**  
[Ben98, Ben98, Grä96]. **My** [Mos07, Slo86].  
**NATO** [Ear88]. **Natural**  
[TTDD91, Mac97b, Mac98]. **Needs** [Raj87].  
**neighborhood** [CG90]. **Networks**  
[IEE91, Wan91]. **Neural**  
[IEE91, WS91a, WS91b, Wan91, WS92].  
**Neuromuscular** [JM87]. **newsletter**  
[Par84, Sym84, MAC84, Par86, Sym86a].  
**Newton** [OM92]. **Newtonian** [Roe95].  
**nine** [BGGD77]. **No** [TMH99]. **Noise**  
[H<sup>+</sup>91]. **Non** [AG87, Baj86, Cre89, Roe95].  
**Non-Linear** [AG87]. **non-Newtonian**  
[Roe95]. **non-planar** [Cre89].  
**Non-Solvability** [Baj86].  
**Noncommutative** [Ous91a]. **noncompact**  
[Cah90]. **Nonlinear**  
[BMS88, CD82, HV87, Her83, LG86,  
NNM91, Rei81, BKK76, BSZ93, Cre90a,  
HT90a, Her91, Ran94, Una88]. **Nonliner**  
[Fli93]. **normal** [CDW90, PK88].  
**Notorious** [van82]. **November** [IEE91].  
**NT** [Mac98]. **Nuclear** [SH84]. **Number**  
[BS84]. **Numeric** [Fra84].  
**Numeric-analytic** [Fra84]. **Numerical**  
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**Optimally** [WKB86]. **Optimization**  
[TD90, HJL91]. **Order** [Man93, Mil93,  
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**Overdetermined** [Woo84]. **Overview**  
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**Oxford** [ACM94].  
**Package**

[Cla89b, Fat76, RW86, TYL88, YW85, BGV94, BFBZ92, EF89, Fre81, Lan80]. **Packages** [Bet90, NW83, Str90]. **Painlevé** [HV87, RW86]. **Palace** [IEE92b]. **papers** [ACM85, Ano80, Fli93, GM82, Mat71]. **Paradigms** [Nor91]. **Parallel** [CS90, Wan79]. **parameters** [Fab92, Fab93, Roe95]. **Part** [RK87, Tha89a, Tha89b, CVG94]. **Partial** [HV87, Her83, Nei80, Rei81, Woo84]. **Particle** [IEE92a, MR85a, MR85b]. **Particular** [Dri84]. **Partitioning** [Fat15]. **PC** [Way90]. **PCs** [PEK91, Way90]. **PDE** [SR90]. **penetration** [HFO94]. **Pennsylvania** [IEE88a, ML87]. **Performance** [Ber84, CFG<sup>+</sup>84]. **Perplexed** [Mos71c, Mos71a]. **personal** [Mos12]. **Perspective** [Whi77b]. **Perturbation** [ANGK<sup>+</sup>87, Che88, RA87, Ran88]. **perturbations** [Mae87]. **petroleum** [OA89, OA91]. **Phase** [JM88]. **Philadelphia** [IEE88a, ML87]. **Philosophy** [Fat76]. **Physics** [Ber84]. **Pitfalls** [MT94]. **PL** [SS73]. **PL/I** [SS73]. **planar** [Cre89]. **plane** [Far89]. **PLANKALKUL** [SS73]. **plans** [Gen79]. **Plate** [SC87, Fra84, HFO94]. **plates** [NNM91]. **Plaza** [IEE88a, IEE91]. **Plotting** [YW85, Fre81]. **Point** [Fat76, CHW91, CG90]. **Points** [CCF84]. **Polyolith** [Pur85]. **polymer** [fHR93]. **Polynomial** [Bey84, Sto84, Wan79, BMM90, Grä96, Mos66a]. **Polynomials** [Baj86, Mon92, Ous91a, WR75, Mig87, Zip79]. **Polyominoes** [Del91]. **Portland** [ACM89]. **Pose** [VGT90]. **Potential** [NA79]. **Power** [IEE93, Koe92, Koe93, Ous91b, Pav85c, JL94]. **Practical** [CCF84, KWW92, BH95, KLW90]. **Praktisches** [KWW92, KLW90]. **Praxis** [Cla90]. **praxisnahe** [BH95]. **Precise** [Mil93]. **Precision** [Fat76]. **preiswert** [Ano95a]. **Prelle** [Man93]. **Present** [Pav85c]. **presented** [ACM85, Ano80, H<sup>+</sup>91, PEK91, SS84]. **presents** [CVG94]. **Primer** [Mat75, Ano75, Ano78, Fat82b, GM82, Lit76, Mat74, Gro78, Mos75]. **Probabilistic** [Zip79]. **Problem** [RH86, SH84, YP91, Kow86, Ris69, Ris70, Str90]. **Problems** [Fit73, Pav85a, Pav86, Raj87, TG90, Cre90b, Mae87, Pav85b, PL87, Ric68, Sla61, TS00]. **Procedure** [Man93, HJL89]. **Proceedings** [ACM94, Ear88, GE94, Hei87, IJC79, Ros74, WGM88, Gen83, G. 86, HSW83, KRB<sup>+</sup>90, Nel89, Top89, Wan81, WN90, AAC93, ACM85, ACM89, Buc85, Cav85, Cha86, F<sup>+</sup>77, GH84, Ham89, IEE86, IEE88b, IEE88c, IEE88a, IEE92b, Jen74, Lew79, ML87, Pet71, Wan92, Wat91, Mio90]. **Proceedings**. [Gra94]. **Process** [ILT87]. **processing** [ABC<sup>+</sup>88, Ros74]. **Program** [HV87, Mac83, Mag89, Whi77a, Whi77b, CR91, Dra01, DS81, Mat89a, Sla61, Str74, TH90]. **Programming** [ACM85, Sam73, Sta84, SS73, Bra89, Cha92, Nor91, Sam74, Sam78, TM89, Wel72]. **Programs** [Cel84, Ivi78, BF72, Ivi77, Lan80, SH10, Tha89a, Tha89b]. **Progress** [NA79]. **project** [Ivi77, Spi86]. **projectiles** [HCR91]. **Prolog** [ZZ86]. **proofs** [MS91]. **Propagation** [LF87, CHH91]. **Properties** [Her83, Mur85]. **Providing** [BS84]. **Proving** [Baj86]. **publications** [Sym87b]. **Puisieux** [Koe93]. **pulse** [HFO94]. **Pure** [Ban84]. **Quadratic** [RH86]. **Quadrilateral** [SC87]. **Quantum** [SH10]. **Quarks** [BH87]. **query** [Mac97b, Mac98]. **queueing** [FP95, PF95]. **Radial** [BBR85]. **radiation** [AP90]. **Ramanujan** [And84]. **Random** [IL88, RDBE87]. **RATFOR** [Gat84, GW84]. **Ray** [KoTRL0E77, HFO94]. **reacting** [HCR91]. **real** [Ric68]. **Realization** [Ous91b]. **reboost** [GD93]. **Rebounds** [Fel96]. **Recife** [CD02]. **record** [Ano80, IEE92a]. **Recurrence** [Cel84, Ivi78, Ivi77]. **REDUCE**

[KLW90, BGV94, Fit73, HvH<sup>+</sup>83, Kea91, KLW90, NW83, Tha89a, Tha89b, Grä96]. **Reduction** [RB91]. **Ref** [TMH99]. **REFAL** [Mur85]. **Reference** [Bog83, Fat82a, Mat77, Mat83b, MAT83a, The83a, The83b, BGD77, BG83, Bog86, FG80, Mac88, Mac93a, Mac93b, Mac95a, Mac95b, GBoT74, MB75, Mat80, GoTLfCS83, Pro74, SM84, SM85, Sym88b]. **referencing** [Sym87b]. **regular** [CG90]. **reinforced** [KSB92]. **related** [Nel89]. **Relations** [Cel84, Ivi78, Ivi77]. **Remark** [Cel84]. **reports** [CVG94]. **Representation** [Ous91a, Sto84]. **Research** [Cav85, FFF<sup>+</sup>84, Ivi77, Spi86]. **Residue** [Wan74]. **Resonance** [IL88, SH84]. **Respect** [Wan94]. **response** [Cre89, NNM91]. **responsible** [Lan87]. **Results** [Car84]. **Review** [Fat89, Gui89, BF72, CVG94, Wel72]. **reviews** [CVG94]. **rewriting** [Sas86]. **RFC** [BR73]. **Riccati** [WH84b]. **Rigid** [JM85, Mac83, MR85a, MR85b, TYL88]. **Rigid-Body** [JM85]. **Risch** [Mos69, SB89]. **Robot** [NTT86, VGT90, ZZ86]. **Robotic** [LH84, LH86, TH90, TYL89]. **Robotics** [IEE86, IEE88a, Akm88, SS84, VT92]. **robots** [NTT90, TT88]. **Robust** [GE94]. **Role** [Pet88, Gen79]. **Roster** [Sam73, Sam74, Sam78]. **routines** [Nei80]. **Royal** [Jen74]. **Rule** [BSZ93, GJK88]. **Rule-based** [BSZ93, GJK88]. **Rules** [Wan94, Sas86].

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**Three** [CVG94, Eng84]. **til** [MH83]. **time** [NTT90]. **Tips** [Mac97b, Mac98]. **tissues** [Hol88]. **Tokyo** [IJC79, WN90]. **Tool** [Pur85, SK86, SDF88]. **toolkit** [Wan91].  
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