

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

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20 October 2023  
Version 1.59

## 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].

//sagemath.org [Den13].

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, Wes99, Sch84]. **Algebra-System** [KWW92]. **Algebraic** [ACM89, ACM94, Bre84, Cha86, DST88, Eng76, FFF<sup>+</sup>84, Mos71a, Mos71c, Pet71, TM89, Wan81, Wan92, WN90, Wat91, BF72, CRDMBR19, 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, Mår86, Mac83, Pow84, SR88, Wan71a, Gat84, Sla61, GE94].  
**automating** [Cre90b]. **Automation** [IEE86, IEE88a, Dic20, 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** [Fli93]. **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]. **Coded** [Dic20]. **codes** [Cah90, RAKK88, RAKK88]. **coding** [Mar71b]. **coefficients** [Dra01]. **collaborative** [Sny17]. **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, KoTRL0E77, Ray88]. **composite** [KSB92, NNM91]. **Compressible** [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, KoTRL0E77, 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, CRDMBR19, Her88]. **compute** [Mat89a]. **Computer** [AP90, Bre84, Cal82, Cav85, DST88, DJ89, Fat81, GCL92, BIG01, GKW03, HWH91, HSW94, HSW98, HN85, ILT87, Jen84, Koe92, KLW90, KWW92, Lan89, Mac83, Mar71a, NMM90, Pav85c, Pav86, Ran84, Ran87, Rei81, Sua84, TH94, WS91a, WS91b, WS92,

Wes99, 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, Sny17, WGM88]. **concentrated** [Fra84]. **concept** [WS83]. **conduct** [Dic20]. **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]. **document** [Sny17]. **documentation** [GM82]. **DOE** [HC85]. **DOE-MACSYMA**

[HC85]. **Double** [JM88, Mag89, TRC92]. **Double-Diffusive** [Mag89]. **double-spiral** [TRC92]. **Drinfeld** [ACLM23]. **Driven** [WKB86]. **drives** [GFB<sup>+</sup>93]. **drudgery** [Str90]. **Dynamaman** [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]. **editing** [Sny17]. **Editor** [Pai92]. **Educating** [Gra94]. **Education** [Gra94, VT92]. **Efficient** [SC87]. **eigenfrequency** [LHC92]. **eight** [SP93]. **Einführung** [BH95]. **elastic** [TT88]. **electromagnetics** [Ari89, TS00]. **Electromechanical** [GBC92]. **Electronics** [IEE93]. **Element** [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].

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