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].  
$\rightarrow$ [Pit79]. $p$ [Wan79]. $Q(\sqrt{3})$ [Deu93].  
$Q(\sqrt{3})$ [Deu93]. $r^2$ [BBR85]. $U(3) \supset SO(3)$ [Dra01]. $x' = y$ [RK87]. $y' = 0$ [RK87]. $Z_p$ [Str85].

-adic [Wan79].

//sagemath.org [Den13].


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].


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

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

adic [Wan79]. Advanced [Ban84, Rei81, Wan84, DJ89, ET88a, ET88b, GJK88, MS91, WS91a, WS91b, WS92].

Algebra [Cav85, DST88, Fat81, GCL92, Gol86, GK803, HWH91, HN85, Jen84, Koe92, KLW90, KWW92, NMM90, Pav85c, Pav86, Rei81, Sua84, YP91, van82, AP90, Ben89, BFBZ92, Cal82, Che88, CP92, Fat15, FP95, HT90b, Ken80, Kut88, Lan89, LR08, Mat89b, MT94, PF95, Ran84, Ran87, RA87, Ran94, Roe95, SH10, TTDD91, TM95, TH94, Way90, Wes99, Sch84].

Algebra-System [KWW92]. Algebraic [ACM89, ACM94, Bre84, Cha86, DST88, Eng76, FFF+84, Mos71a, Mos71c, Pet71, TM95, Wan81, Wan92, WN90, Wat91, BF72, CRDMBR19, DST87, D81, Fat15, GJK88, Mar71b, Ng79, Sas6, 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]. ALPALS [Paich2].

Alternative [Coo84, Fat15]. alternor [MS90]. American [AAC93, PEK91, SS84].

analog [SDF88]. Analysis [AM90, Ban4, 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].


Anwendung [Ben98]. Anwendungsbeispielen [BH95].

Application [Ari89, Baj86, CT7Y90, CD82, CD87, EM87, Hol88, JM87, Kwo91, MR95a, MR95b, SH84, VGT90, YP91, BF72, Fat15, HFO94, KoTRLoE77, y88, Wan91].

Applications [AM90, ET90, 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 [GJ88]. Approximate [TT88, GHR10]. Approximation [CCF84]. approximations [GI95]. April [Cal82, Cav85, IEE86, IEE88a, Mio90, WGM88].

Arbeiten [KL90, 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+91, KRB+90, G. 86].

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

astro-geophysics [DJ89]. Asymptotic [CCF84, Loa85, BT88, Ski93].


automating [Cre90b]. Automation [IE86, IEE88a, Dic20, SDF88].

Autonomous [LR90]. available [Way90].

averaging [CL91]. axes [BFMS87].
AXIOM [Ben98, Ben98, Grá96].


Ari89, Ben98, CHW91, CTZY90, Che88, 
DS81, Ear88, ET88a, ET88b, Fat15, FP95, 
GJK88, HT90b, Ken80, 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+90, Sym86b, KRB+90]. Computing
[CS79, CF80, CG90, Dek83, JS87, Man93, 
Top89, AM93, DM93, Dra01, ET88a, ET88b, 
Sny17, WGM88].

Concept
[WS83, conduct [Dic20]. cones
[BFMS87]. Conference
[AAC93, Ano80, Cal82, Cav85, F+77, GH84, Gra94, G. 86, 
H+91, IEE93, IEE86, IEE88b, IEE88c, 
IEE88a, IEE91, IEE92a, IEE92b, IJC79, 
KRB+90, Lew79, Top89, Ano80, IEE92a].

Considerations
[Lue77]. constitutive
[TDA88]. constraints [TM85].

Constructing
[Gi95]. Construction
[CA90, Her83, Wan79]. Consultant
[Gen77]. consultation [Gen79].

Contribution
[Sir70, Sir70].

Contributions
[Cav85]. Control
[ACC93, BMS88, GE94, ILT87, ML87, 
RH86, TMH99, ABC+88, ET88a, ET88b, 
ET98, Fli93, GFB+93, HLTH94].

Controlled
[WKB86, Fab92, Fab93].

controller
[LS96]. controls [SS84].

Convection
[Mag89, TTDD91]. converter
[GFB+93]. converter-machine [GFB+93].

Corrections
[Cel84, Coulomb [BRR85].

coupled [Her91]. courses [TH94].

crack
[KSB92, LHC92]. crack-induced [LHC92].

Criteria
[Yag84]. criterion [Una88].

Critical
[NMM90]. Crow [CvG94]. CTRL
[Mar86]. CTRL-C [Mar86]. Current
[Pad85, Raj87]. Cybernetics [IEE88c].

cyclically
[MS90]. 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
[MS90]. Deformation
[Ban84]. Degenegrate
[RK87]. Degree
[HT84].

Demonstrations
[DS81]. Derivation
[LH84, LH86, MD88, DJ89, TDA88, WS92].

DERIVE
[Ben98, Ben98, KLW90, KWW92].

Describe
[GB92]. Design
[Cha88, CFG+84, GE94, ILT87, SK86, 
ABC+88, AM90, BSZ93, BFBZ92, ET88a, 
ET88b, ET89, Fli93, GAT84, HJL89, 
HLTH94, H+91, LS96, SDF88, Mio90].

Determinacy
[RK87]. Determining
[KR71]. 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

Difficulties
[Wan82]. Diffusive
[Mag89].

Dimensional
[Eng84, Wel72]. Dirac
[BFR85, 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


Enumeration [De91]. Environment [BS84, Ber84, Pur85, Ray88, Sre92].

Environments [ACM85, Car84]. Equation [Mil83, Rei81, WH84a, CP92, Gol77a, TD90, TLY89]. Equations [Bey84, Har84, HV87, Her83, HN85, LH84, LH86, Mac83, MD88, RW86, Woo84, Yog84, 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 [TLY89]. EUROCAL [Cav85, Buc85].

EUROCAM’82 [Cal82]. Europa [IEE92b]. European [Cal82, Cav85, IEE93]. EUROSAM [Ng79, Jen74]. evaluate [Lun86]. Evaluating [Cut84]. Evaluation [War71b, War71c, War74, Str74]. evolution [HT90a, Her91]. Exact [Her91, CDA90, Roe95]. Examples [Koe93]. exchanger [TRC92]. Excitation [IL88]. excited [Cha92]. executing [Lan80].


Expertensysteme [KWW92]. explained [GM82]. Exposition [KRB+90]. expression [Sas86]. Expressions [BRR85, Bre84, Mar71a, Mar71b, Str74, SC90].

extension [Ple64, WS83]. EZ [MY73].


Flexible [NTT86, TLY88, Fab92, NTT90, TLY89]. flexible-link [TLY89]. Floating [Fat76]. Florida [H+91]. Flow [EM87, YP91, Cle88, fHR93]. flowfields [HCR91, OM92]. flows [HCR91]. Fluid [BHY88, EM87, Mem86, NMM90, YP91, fHR93, Ros85, yS88]. Forcing [AG87].


[DM88, DM93, TYL89]. links [TT88]. Linz [Cav85]. Liouville [Rit48]. liquids [Roe95].
LISP [Ano80, CF80, GW84, Nor91, Pad85, Pav85c, Pit79, Whi77a, Whi77b, KK22].
London [Top89]. long [Cah90]. look [CVG94]. loop [Fab93]. Lösung [RAKK88].
Louisiana [SS84].

Machine [Sta84, GFB+93, Pav85c].
Machinery [H+91]. MACLISP [Whi77b].
MacroTEX [CS87, CS89, CS89].
MACSYMA
[Ben98, F+77, GH84, KLIW90, KWW92, Lew79, MM70, Ano95a, Ano97, Ano75, Ano78, Ano88, Ano92, Ari89, BS84, Ban84, Ben88, BKK76, Bey84, BR73, BGGD77, BG83, Bog83, Bog86, Bra89, Cal90, Car84, Cei84, Cha88, CS89, Che88, Cla89b, Coo84, CR91, Cut84, DCC85, DeL87, Die20, DS81, Dri84, EF89, Fat71, FG80, Fat82a, Fat82b, Fat87, Fav79, Fit73, Fod78, Fra84, Gen77, GFB+93, SGG88, Gil95, Gol77b, Gol77a, Gol79, GM82, Gol82, Gol85, Gos77, Mat75, Mat77, Mat83b, Har84, MAC84, HC85, Hel91, HNS87, HV87, HT90a, Her91, HT84, Hol86, HN83, Iv77a, Kea91, KoTRLoE77, KLIW90, KWW92, Kwo81, Lew75, Lew76a, Lew76b, Lew78, Lit76, Lo85, Lin86, Mag89, Mar87, MF71, MAT83a, The83a, The83b, Mat71, Mat74, GBoT74, MB75].

MACSYMA
[Gro78, Mat80, GF80, GOLICS83, MH83, Mos74, Mos75, Par84, Par86, PW85a, Pav85b, PW85c, Pav85c, Pro74, PL87, Ran84, Ran87, Ray88, RAK88, Ros85, SH84, SB89, Slo86, SR90, Sym84, SM84, Sym85a, Sym85b, SM85, Sym86b, Sym86a, Sym87b, Sym88b, y88, Tha89a, Tha89b, TC90, TM85, TV89, Wan84, WS83, WH84b, Wol79, Ano95a, BH95, CDA90, CS87, CG90, Cla90, CD82, CVG94, De91, Dra01, EM87, Fat76, Fat89, Fel96, Fel98, FF81, Fre81, GBC92, Gol84, Gol86, Gon83, Grä69, Gui89, Ivi78, JM85, Lan80, Mar86, Mil93, MR85a, MR85b, Mos12, Ols92, Ous91a, Ous91b, Pav85a, PK88, RW86, RK87, RFC98, RDBE87, RS89, Spi86, SR86, Sym87a, Sym88a, Wan74, Wan90].
MACSYMA-Aided [Ban84, Wan84].
MACSYMA-FORTRAN [RAKK88].
MACSYMA-FORTRANHybrid-Codes [RAKK88].
MACSYMA-generated [WH84b]. MACSYMA-like [Fat87].
MACSYMS [Cla89a]. Magnetic [SH84, WS88]. Mainframe [Way90].
making [Dic20]. Man [IEE88c].
Management [Pur85]. manipulating [Pl64, Wan91].
Manipulation [CD87, Eng76, FFF+84, Lue77, Mej84, Ng79, NA79, PT60, Pe71, TYL88, Cre89, DST87, DS81, EF89, ET89, GJK88, BG83, Bog86, FG80, Mac88, Mag93a, Mac93b, Mac95a, Mac95b, GBoT74, MB75, Mat80, GOLICS83, Pro74, SM84, SM85, Sym88b].
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, Mag93a, Mat95a, Mac95b, GBoT74, MB75, Mat80, GOLICS83, Pro74, SM84, SM85, Sym88b].
Manuals [SS73]. manufacturing [SS84].
MAPLE [Ben98, Ben98, CFG+84, CVG94, Grä96, PF95, SH10].
Mapping [Eng84].
March [Gen83, IEE88b, Pet71]. Mario [CVG94]. Marseille [Cah82, Ng79].
Massachusetts [KRB+90].
Matched [Ski93].
matching [Fat71, Fat15, Lo85].
material [Far89]. Math [Bet90, Way90, Fos91, Mac97b, Mac98].
MATHCAD [Ben98, Ben98].
MATHEMATICA
[Ben89, KW89, Ben98, Grä96, SH10].
Mathematical
[CHH91, FKM95, KW89, Mar67a, Mar67b,]
Wol85, Mar71a, Pet88, Str90, Tob71, War90]. Mathematics
[CVG94, Den13, Dev94a, Dev94b, Dev94c, Bar90, Ben98, Die20, HN83, Mac88, Mac93a, Mac95b, Pet88, PL87, Ran84, Ano95]. Mathematik [Ano95a]. Mathematische [KWW92]. Mathlab [BR73, FG80, MM70]. Mathlab/MIT [FG80, Mat80].


TRC92, WH84a, CDA90, CG90, Fra84, HT90a, Her91, Kwe91, Roe95, WH84b].

solves [Sl61]. Solving [Cel84, EM87, Har84, Ivi78, Mae87, TG90, GHR10, Ivi77, Kow86, Str90]. Some [Cel84, Her83, Hol86, Ivi78, Mej84, Ric88, Wan94, WH84a, CDA90, PL87, WH84b].


Stability [MR85a, MR85b, WKB86, Yag84].

Sandford [IEE91]. standard [RB91].

Stanford [Ano80]. State [ANGK87, MD88]. statics [Mat89a].

Statistics [Dek83, Hei87, HSW83, WGM88, Gen83].

Steiner [BH87]. Stimulation [JM87].

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Stratified [YP91]. stress [HFO94].

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Studies [JM85, Nor91]. Study [Ear88, JM85, Hol88, LHC92].

subexpressions [Fat15]. subjected [HFO94].

Subroutines [SR86].


supported [BIG01]. Surfaces [FKM95].

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Sweden [Jen74, Ros74]. switching [MSI90].

Sydney [GE94]. Symbol [Mac83]. Symbol [PT60, Mat89a]. Symbolic [ACM89, ACM94, BHY88, Bau88, BKK76, CS79, CP80, Cha86, CD87, Cre90b, Dek83, ET88a, ET88b, SCG88, Her88, Lan88, LH84, LH86, LS96, Mac83, MD88, Mar67a, Mar67b, Mej84, Mos66c, Mos66b, Mos67a, Mos67b, Mos71b, Mos71d, Ng79, NA79, Pet71, TDA88, Tob71, TMH99, TYL88, VGT90, Wan74, Wan81, Wan85, Wan92, War90, WN90, Wat91, WS84, Ws85, ABC+88, AM89, Bey79, BFBB92, Cha92, CTZY90, CP92, Cre89, Cre90a, DM93, ET89, Fat15, Fav79, GFB+93, HFO94, HLTH94, Hol88, Ken80, Lo85, Mar87, Mio90, OA89, OA91, Pae92, Pet88, Ran88, SDF88, Sl61, Str74, TD90, TTDD91, TS00, VT92, Wan71b, Wan71c, YW87, Ng79].

Symbolically [Mii93]. SymbolicC [SH10].

symmetric [Far89]. symmetrically [BFMS87]. symmetries [CHW91, Ros85].

Symposium [ACM85, ACM89, ACM94, Ano84, Cha86, Gen83, Ham89, Hei87, HSW83, ML87, Mio90, Ng79, Pet71, Wan81, Wan92, WN90, Wat91, WGM88, Fl93].

Symmsac [Cha86, Wan81]. SYMSAM [Pet71]. SYMTOM [TH90].

Syntactic [Mur85].

syntax [DM88, DM93]. System [CFG+84, Cla90, Den13, Fab92, ILT87, Jen84, KWW92, MF71, Woo84, BT88, Che88, ET88a, ET88b, ET89, FP95, GFrä96, GJK88, HFO94, HLTH94, JL94, LR08, Mac93b, Mac95b, Mat89b, PF95].

Systematic [LG86]. Systemen [Ben98, KJL90]. systèmes [DST87].

systemnahe [BH95]. Systems [BMS88, CD82, DSS88, GBC92, GKW03, Ham89, HWH91, Har84, HT84, HN85, IEE88c, JM85, KWW92, Lue77, Mac83, MD88, Meh86, Ous91b, Pav85c, Raj87, WH84a, van82, AM89, AM90, Ben98, CHW91, CG90, DST87, Fat87, Fat15, Fl93, HSW49, HSW98, Hol86, KKL90, Lan87, MSI90, Mio90, Mos66a, RB91, TM85, TH94, TYL89, Un88, WS91a, WS91b, WS92, Wes99, YW87].

takes [CVG94]. Taking [Str90]. teach [Mat89b, PF95]. Teaching [FP95, Lan89, TH94]. technical [H+91].

Techniques [Wan85, PEK91, TD90, TS00].
Technology [Jen74, IEE92a, TH94]. Ten [Mat83b]. Terms [AG87, Rit48, Ris69, Ris70]. Test [HV87, Mon92]. Testing [Pow84]. Texas [Gen83]. their [BF72, Ben98, RB91]. Theoretical [LHC92, Ken80, Ear88].

theories [Cah90, Far89]. Theory [ANGK + 87, Ham88, Mos72, Wan74, Bey79, CDA90, FP95, HFO94, HSW98, PF95, RA87, Rit48, SP93]. thick [Far89, NNM91]. Threaded [PT60]. Three [CVG94, Eng84].


toolkit [Wan91]. Tools [Wol79]. Top [Coo84]. Top-Level [Coo84]. Topics [Ran94]. topology [CRDMBR19].

tori [Gil95]. torus [KoTRLoE77]. Tower [IEE86]. trajectories [KoTRLoE77].

Transfer [BHY88, Whi88, PEK91]. Transform [Cla89b, Cla89a, CP92, SC90]. Transformations [CD87, Den93].

Transient [HF904]. Translator [Pit79].

transversely [Far98]. Tree [BH87].


two-part [CV94]. type [Che88, SC90].

typesetting [Fod78].

Überlegungen [Luc77]. UK [IEE93].

undecidable [Ric68]. undergraduate [Lan89]. undergraduates [Lan88].

Unexpected [Car84]. Uniform [CCF84].

uninitiated [ Bau88]. United [ACM94].

Univariate [Mon92, Wan79]. University [Ano80, FTF + 84]. UNIX [SM85, FG80, Fat82b, Mat80, GF80, Sym85b, Fre81].

unknown [Gol85]. Unsteady [HR93].

Untersuchung [RAK98]. USA [Lew79, ACM89]. usage [DCS85, DeL87]. Use [NMM90, OA89, OA91, Ran88, TG90, VT92, Ben98, BH95, Cah90, Cre90b, GFB + 93, Ken80, Lan87].

User [F + 77, GH84, Lew76a, Spi86, SS73, Sym87a, Sym88a, van82, Ano88, Ano92, Fat71, Gol77b, Gol79, GM82, Gol82, Lew75, Lew76b, Lew78, Mac95a, Mac95c, YW87].

User-Friendly [Spi86]. user-level [Fat71].

Users [Lew79, Die20]. Uses [Dri84]. Using [BR73, Cha88, Cut84, Del91, GBC92, SCG88, HN84, LN85, LM86, Man93, Mat89b, Mat89a, PF95, RK87, RS85, SR84, SR86, SR90, CDA90, Cha92, Che88, CS90, CP92, CR91, DM93, Gil95, HT90a, Her91, MSL90, PK88, PL87, Ran87, RB91, Roe95, Ros85, SH10]. Utah [Wan81]. Utilization [Bra89, Nel89].

Value [SH84, TG90, Mae87]. variable [Har95, Ric68]. Variables [CD87, Wan94].

Variational [RS85]. variations [SP93].

Vassallo [CV94]. VAX [FG80, Fat82a, Fat82b, FF81, Fre81, Mat80, GF80, SM85].

VAX/ [Fre81]. VAX/UNIX [FG80, Fat82b, Mat80, GF80]. VAX/VMS [Mat80].

VAXIMA [BS84, FG80, Gat84, SR84, Nei80, NW83, Pow84, Wan82, YW85].

venue [IEE93]. Verified [Roe95]. Version [Bog83, BH95, Mat77, Mat83b, Mac97b, The83a, The83b, BGGD77, Mac98, Mat80, Pro74, HNS87]. via [TV89].


Vol.2 [GE94]. Volume [BFHS92, Cav85, The83a, The83b, BFMS87, SR90].

Waals [ANGK + 87]. Washington [ACM85, Lew79]. Waterloo [Cha86]. wave [BKK76, CHH91, HFO94, HT90a, Her91].

wedge [Che88]. wedge-type [Che88].

Westin [AAC93, IEE91]. Which [Sto84, Ous91b]. whose [BFMS87]. Wide [IL88]. Wide-Band [IL88]. Windows
REFERENCES

[Ano95a, Mac98]. **Winter** [PEK91, SS84]. within [TTDD91]. without [CF80]. word [Mac98], words [Mac97b]. **Work** [KWW92, KLW90]. Workstations [Wan85, PEK91, TTDD91]. **World** [GE94, Gra94]. Write [SR84, SR86, Cah90, SR90].

**Year** [Mos74]. **Years** [Wol84]. **York** [GH84].

zur [KLW90, Luc77, RAKK88].

References


REFERENCES


[And84] George E. Andrews. Ramanujan and SCRATCHPAD. In Golden and Hussain [GH84], pages 383–??


REFERENCES


Kenneth A. Bannister. MACSYMA-aided large deformation analysis of a cylindrical shell under pure bending. In Golden and Hussain [GH84], pages 140–??.
REFERENCES


[Ber84] Robert H. Berman. Measuring the performance of a computational physics environment. In Golden and Hussain [GH84], pages 244–??.


[Bey84] William A. Beyer. Solution of simultaneous polynomial equations by elimination in MACSYMA. In Golden and Hussain [GH84], pages 110–??

Bozoki:1992:ASA


Beyer:1992:VCT


Beyer:1987:VCT


Bogen:1977:MRM


Borst:1994:GRP


Beyer:1987:STA


Braun:1995:MVS


[BHY88]


[BIG01]


[Byrnes:1988:ACN]


[BMM90]


REFERENCES


Carrette:1984:RUM

George J. Carrette. Results in unexpected MACSYMA implementation environments. In Golden and Hussain [GH84], pages 292–??

Caviness:1985:PEE


Connor:1984:UAS


Claude:1982:AMN


Cohn:1987:ASM


Cabral:2002:CCM

REFERENCES


REFERENCES


[Coo84] Gene Cooperman. An alternative top-level for MACSYMA. In Golden and Hussain [GH84], pages 356–??.

REFERENCES

844, March 20, 1992. CODEN IJQCB2. ISSN 0020-7608 (print), 1097-461X (electronic).


[Chancelier:1989:MGC] J. Ph. Chancelier and A. Sulem. MACRO\TeX{}: un générateur de code \TeX{} implémenté en MACSYMA. (French) [MACRO\TeX{}: a code generator implemented in MACSYMA]. Cahiers GUTenberg,
REFERENCES


Chien:1990:PCU


Chang:1990:ASM


Cuthill:1984:EII

Elizabeth Cuthill. Evaluating infinite integrals using MACSYMA. In Golden and Hussain [GH84], pages 291–??.

Crow:1994:TSR


DeLoatch:1985:MUA


DeLoatch:1987:MUA


Delest:1991:EPU

Denny:2013:SOS


Deutsch:1993:IAH


Devlin:1994:CMa


Devlin:1994:CMb


Devlin:1994:CMc


Dick:2020:CCM


Dudley:1989:CAD


Dhingra:1988:FMS

REFERENCES


Einwohner:1989:MPG


Easwaran:1987:AMS


Engelman:1976:AML


Engelman:1984:TTD

[Eng84] Paul D. Engelman. Two to three dimensional mapping. In Golden and Hussain [GH84], pages 313–??

Eldeib:1988:SCCa


Eldeib:1989:ASM

REFERENCES

Fateman:1977:PMU


Fateman:1976:MAP


Fateman:1981:CAN


Fateman:1982:AMR


Fateman:1982:MPV


Fateman:1987:TOM

[Fat87] Richard J. Fateman. \TeX output from MACSYMA-like systems. SIGSAM Bulletin, 21

Fateman:1992:SPO


Fateman:1993:FGS


Fateman:1989:HOT


Fateman:1971:ULS


Fateman:1976:MAP

Fateman:1989:RM


Fateman:2015:PAS


Favaro:1979:ISE


Fell:1996:MRI


Fell:1998:MTC


Foderaro:1981:CVM


Fatemans:1984:RAM


Favaro:1980:AMM


Han:1993:UFP

REFERENCES

DEN JOUHEI. ISSN 1001-6058.


Freedman:1981:IPP


Gupta:1986:CEP


Gates:1984:DIA


Gerbaud:1992:MAD


MathlabGroup:1974:MRM


Geddes:1992:ACA


Graham:1993:AMR


Goodwin:1994:ACW

REFERENCES


[Genesereth:1979:RPA]


[Golev:2010:AAS]

[Gil95] David E. Gilseinn. Constructing Galerkin’s approximations...
REFERENCES

of invariant tori using MACSYMA. Nonlinear Dynamics, 8(2):269–305, September 1995. CODEN NODYES. ISSN 0924-090X.


REFERENCES

Golden:1984:CGH


Golden:1985:DUF


Golden:1986:OAM


Gong:1983:LMH


Gosper:1977:IHS


MathlabGroup:1983:MRM


Grayson:1994:PFE


Grabe:1996:APS


MathlabGroup:1978:MP


Guizani:1989:RM


[Heller:1991:MS]


**Hermann:1983:GCP**


**Herbert:1988:SCS**


**Hereman:1991:ESW**


**Hata:1994:TAS**

Toshiaki Hata, Masashi Furumaki, and Kazuhumi Ohenoki. Transient analysis of stress wave penetration in a plate subjected to a stress pulse (application of symbolic manipulation system to ray theory).

**Hansen:1989:APG**


**Hansen:1991:AAG**


**Ho:1994:RAS**


**Hussain:1983:AMC**

M. A. Hussain and Ben Noble. Applications of MACSYMA to calculations in applied mathematics. Corporate Research and Development
REFERENCES


REFERENCES

Hollis:1984:HBM

[HT84] P. Hollis and D. L. Taylor. Hopf bifurcation in multi-
degree-of-freedom systems using MACSYMA. In Golden
and Hussain [GH84], pages 169–??.

Hereman:1990:SWS

[HT90a] W. Hereman and M. Takaoka. Solitary wave solutions of
nonlinear evolution and wave equations using a direct
November 7, 1990. CODEN JPHAC5. ISSN 0305-4470
(print), 1361-6447 (electronic).

Hollis:1990:ACA

[HT90b] P. Hollis and D. L. Taylor. Applications of computer algebra
in journal bearing analysis. In Kinzel et al. [KRB+90], pages
volumes.

Hereman:1987:MPP

[HV87] W. Hereman and E. Van Den Bulck. MACSYMA program
for the Painlevé test of nonlinear ordinary and partial
differential equations. Report AD-A194 293; CMS-TSR-88-
21, University of Wisconsin at Madison. Center for Math-

Hulshof:1983:R

[HvH+83] B. Hulshof, A. van Hulzen, et al. REDUCE, 1983. CO-
DEN SIGSBZ. ISSN 0163-5824 (print), 1557-9492 (electronic).

Harper:1991:GCA

[HW91] David Harper, Chris Wooff, and David Hodgkinson. A
Guide to Computer Algebra Systems. John Wiley and Sons,
New York, NY, USA; London, UK; Sydney, Australia, 1991.

IEEE:1986:PII

ference on Robotics and Automation, April 7–10, 1986,
the San Francisco Hilton and Tower, San Francisco, Cali-
ifornia. IEEE Computer Society Press, 1109 Spring Street,
Suite 300, Silver Spring, MD 20910, USA, 1986. ISBN 0-
IEEE Computer Society order number 695.

IEEE:1988:PIIb

ference on Robotics and Automation, April 24–29, 1988,
Franklin Plaza Hotel, Philadelphia, Pennsylvania. IEEE
Computer Society Press, 1109 Spring Street, Suite 300, Silver
IEEE:1988:PFC


IEEE:1988:PIIa


IEEE:1991:IIJ


IEEE:1992:CRI


IEEE:1992:PF1

<table>
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<tr>
<th>Reference</th>
<th>Title</th>
<th>Authors</th>
<th>Details</th>
</tr>
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<tbody>
<tr>
<td>[JM85]</td>
<td>M. S. Ju and J. M. Mansour. Comparative studies of formu-</td>
<td></td>
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</tr>
</tbody>
</table>

**Ju:1987:ASS**


**Ju:1988:SDL**


**Jacky:1987:DIA**


**Keady:1991:GRM**

G. Keady. GENTRANs from REDUCE and from MACSYMA. Technical report, University of Waikato, Mathematics Department, Waikato, New Zealand, September 1991.

**Kennedy:1980:CUC**


**Kunze:2022:HFL**


**Kutzler:1990:SF**

Kauers:2019:MOP


Kowalik:1986:KBP


Koepf:1992:PSC


Koepf:1993:EAC


Kulp:1977:RTT


Kutzler:1988:MFM


REFERENCES


Litwin:1990:IMA


Lo:1985:AMS


Li:2008:MOS


Lu:1996:SCD


Lueken:1977:UFE

E. Lueken. Überlegungen zur Implementierung eines Formelmanipulationssystemes. (German) [Considerations for the implementation of formula manipulation systems]. Master’s thesis, Technische Universität Braunschweig (?), Braunschweig, Germany, 1977.

Lund:1986:UME


Macala:1983:SCP


Harten:1984:MAN

L. P. Harten, editor. *MACSYMA Applications Newsletter*, 1(1), July 1984. Para-
REFERENCES

digm Associates, Inc., 29 Putman Ave, Suite 6, Cambridge, MA 02139, USA.

Macsyma:1988:MMR

Macsyma:1993:MMR

Macsyma:1993:MSR

Macsyma:1994:M
Macsyma, Inc. Macsyma, 1994. 8 computer disks.

Macsyma:1995:MGU

Macsyma:1995:MMU

Macsyma:1995:MUG

Macsyma:1997:IM

Macsyma:1997:MNM

Macsyma:1998:MMW

REFERENCES

0163-5824 (print), 1557-9492 (electronic).

Magnan:1989:MPM


Man:1993:CCF


Martin:1967:SMLa


Martin:1967:SMLb


Martin:1971:CIO


Martin:1971:DEA


Maartensson:1986:ATC


Marbeau:1987:TSK


MathlabGroup:1971:MP


MathlabGroup:1974:MPI

REFERENCES


Unmeel Mehta. Knowledge based systems for computational aerodynamics and fluid dynamics. In Knowledge based problem solving [Kow86],...
Raymond Mejia. Some applications of symbolic manipulation in biomathematics. In Golden and Hussain [GH84], pages 35–??


REFERENCES

Monagan:1992:HIT


Moses:1966:SIIa


Moses:1966:SIIb


Moses:1966:SII


Moses:1969:ICS


Moses:1971:ASGa


Moses:1971:SISa


Moses:1971:ASGb


Moses:1971:SISb

REFERENCES


[MSI90] Rafi Manor, Beni Shalom, and Adrian Ioinovici. Simulation of cyclically switching systems


[Ng79] Edward W. Ng, editor. *Symbolic and algebraic computation: EUROSAM '79, an International Symposium on Symbolic and Algebraic Manipulation, Marseille, France, June 1979*, volume 72 of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin,
Nielsen:1990:UCA


Nayfeh:1991:NRT


Norvig:1991:PAI


Nicosia:1986:DMF


Nicosia:1990:DMF


Norman:1983:CVR


Oberaigner:1989:USC


Oberaigner:1991:USC


Olson:1992:OAM

Andrew M. Olson. Object-oriented analysis model of


REFERENCES

Pavelle:1985:MCAa


Pavelle:1985:PPC


Pavelle:1986:CAC


Petrick:1971:PER


Petti:1988:RSM


Place:1995:UCA

Jerry Place and Sue Fitzgerald. Using a computer algebra system (Maple) to teach elementary queueing theory. *Computer Applications in Engineering Education*, 3(1):65–
REFERENCES

73, 1995. CODEN CAPEED.
ISSN 1061-3773.

[PH86] Thomas H. Pierce and Bruce A.
Hohne, editors. Artificial intelli-
gence applications in chem-
istry, volume 306 of ACS
symposium series. American
Chemical Society, Washington,
DC, USA, 1986. CODEN AC-
SMC8. ISBN 0-8412-0966-
9. ISSN 0097-6156. LCCN

[PL87] Alkesh Punjabi and Maria
Lam. Solutions of some prob-
lems in applied mathematics
using MACSYMA. NASA
contractor report NASA-CR
180299, NASA, Washington,

[PI64] A. J. Perlis and Renato Itur-
riaga. An extension to AL-
GOL for manipulating formu-
lae. Communications of the
ACM, 7(2):127–130, February
1964. CODEN CACMA2.
ISSN 0001-0782 (print), 1557-
7317 (electronic).

[PT60] Alan J. Perlis and Charles
Thornton. Symbol manipula-
tion by threaded lists. Com-
munications of the ACM, 3(4):
195–204, April 1960. CODEN
CACMA2. ISSN 0001-0782
(print), 1557-7317 (electronic).

Computation of observer nor-
mal form using Macsyma. In Byr-
nes et al. [BMS88], pages
475–482. ISBN 0-444-70496-
5. LCCN Math QA402.3.A541
1988. Selected papers from
the 8th International Symposi-
um on the Mathematics of
Networks and Systems, held in

[PL87] Project Mac (Massachusetts
Institute of Technology). Math-
lab Group. MACSYMA ref-
erence manual: version seven.
Massachusetts Institute of
Technology, Cambridge, MA,

[Pow84] Carl Robert Powell. An auto-
matic testing facility for Vax-
ima. Thesis (m.s.), Kent State
University, Kent, OH, USA,

[Pit79] K. M. Pitman. A FORTRAN
LISP translator. In Lewis
[Lew79], page ??

environment to support man-
agement of tool interfaces. In
ACM SIGPLAN 85 [ACM85],
pages 12–18. ISBN 0-89791-
165-2. LCCN QA76.7 .S54
v.20:7. US$21.00. Published in
ACM SIGPLAN notices, volume 20, number 7.


REFERENCES


Richardson:1968:SUP


Risch:1969:PIF


Risch:1970:SPI


Ritt:1948:IFT


Rand:1987:DDE


Ralston:1976:ECSa


Roesner:1995:VSP


Rosenfeld:1974:IPP

ROSENCRAWS:1985:CHO


ROACHE:1985:NAG


ROWNEY:1989:FFM


RAND:1986:OMP


SASAKI:1986:SAE


SCHOU:1989:RAM


[Sir70] Yvon Siret. Contribution au calcul formel sur ordinateur. (French) [Contribution to formal calculus on a computer]. Thèse ès Sciences appliquées,
Université de Grenoble, Grenoble, France, 1970.

Sreenath [1986:DTM]


Skinner [1993:MAE]


Slagle [1961:HPS]


Sloane [1986:MFM]


Symbolics [1984:MRM]


Symbolics [1985:VUM]


Snyder [2017:SCD]


Smith [1993:CEV]

Spirkovska:1986:MMU

[Spi86] Lilly Spirkovska. MUFIE, Macsyma’s User-Friendly Interactive Executive: research project. Master of sciences, plan ii, Department of Electrical Engineering and Computer Sciences, University of California, Berkeley, Berkeley, CA, USA, 1986. various pp.

Steinberg:1984:UVW

[SR84] Stanley Steinberg and P. Roache. Using VAXIMA to write Fortran code. In Golden and Hussain [GH84], pages 1–??

Steinberg:1986:UMW


Steinberg:1988:AGF


Steinberg:1990:UMW


Sreenath:1992:HCE


Stock:1973:BPL


Stelson:1984:SCA


Stanat:1984:FLM

[Sta84] Donald F. Stanat. A functional language machine and its pro-
gramming. In Golden and Hussain [GH84], pages 371–??

Stoutemyer:1984:WPR

[Sto84] David R. Stoutemyer. Which polynomial representation is best? In Golden and Hussain [GH84], pages 221–??

Strubbe:1974:MSC


Strauss:1985:JFJ


Strassberg:1990:TDP


Suarez:1984:CAA


Symbolics:1984:MN


Symbolics:1985:IM


Symbolics:1985:IUM


Symbolics:1986:MN


Symbolics:1986:IMS


Symbolics:1987:MUG


Symbolics:1987:BPR

REFERENCES


Symbolics:1988:MUG


Symbolics:1988:MUG


Tan:1990:OTS


Tan:1988:SDC


Thejill:1990:UMS


Toyama:1990:SAR


Tomovic:1994:CAS


Thas:1989:CRMa

REFERENCES


[Trager:1984:IAF] [Tra84] B. M. Trager. Integration of algebraic functions. Ph.D. dis-
Targett:1992:SCF


Turetken:2000:CSC


Tomei:1988:AMR


TeBeest:1991:NCW


Tunstel:1989:MMK


Tzes:1988:SMP


Tzes:1989:MSE

[TYL89] Anthony P. Tzes, Stephen Yurkovich, and F. Dieter Langer. Method for solution of the Euler–Bernoulli beam equation in flexible-link robotic systems. In *Proceedings of the IEEE Inter-
REFERENCES


Wang:1979:PAC


Wang:1981:SPA


Wang:1982:HAV


Wang:1984:MFE

Paul S. Wang. MACSYMA-aided finite element analysis. In Golden and Hussain [GH84], pages 23–??

Wang:1985:CSN


Wang:1991:TMI


Wang:1992:PII


Wang:1994:DII


Ward:1990:SMC

Thomas L. Ward. Symbolic mathematical computation in engineering economy. CoED (Journal) (Computers in Education Division of ASEE),
REFERENCES


[WH84a] Ralph Wilcox and Leo Harten. Analytical solutions to some linear systems of differential equation. In Golden and Hussain [GH84], pages 138–??

[Whi77a] J. L. White. LISP: Data is program, a tutorial in LISP. In Fateman et al. [F+77], page ?? LCCN QA76.6 .M328 1977.

[Whi77b] J. L. White. LISP: Program is data, a historical perspective on MAACLISP. In Fateman et al. [F+77], page ?? LCCN QA76.6 .M328 1977.


[Wol79] Steve Wolfram. MACSYMA tools for Feynman diagram calculations. In Lewis [Lew79], page ??

[Wol84] Steve Wolfram. Five years of SMP. In Golden and Hussain [GH84], pages 220–??


REFERENCES


