



# Axiom The Scientific Computation System

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## **Axiom The Scientific Computation System:**

*axiomTM* Richard D. Jenks, Robert S. Sutor, 2013-12-21 Recent advances in hardware performance and software technology have made possible a wholly different approach to computational mathematics Symbolic computation systems have revolutionized the field building upon established and recent mathematical theory to open new possibilities in virtually every industry Formerly dubbed Scratchpad AXIOM is a powerful new symbolic and numerical system developed at the IBM Thomas J Watson Research Center AXIOM's scope structure and organization make it outstanding among computer algebra systems AXIOM The Scientific Computation System is a companion to the AXIOM system The text is written in a straightforward style and begins with a spirited foreword by David and Gregory Chudnovsky The book gives the reader a technical introduction to AXIOM interacts with the system's tutorial accesses algorithms newly developed by the symbolic computation community and presents advanced programming and problem solving techniques Eighty illustrations and eight pages of color inserts accompany text detailing methods used in the 2D and 3D interactive graphics system and over 2500 example input lines help the reader solve formerly intractable problems [AXIOM](#) Numerical Algorithms Group, 1992

**axiomTM** Richard D. Jenks, Robert S. Sutor, 1992-08-20 Recent advances in hardware performance and software technology have made possible a wholly different approach to computational mathematics Symbolic computation systems have revolutionized the field building upon established and recent mathematical theory to open new possibilities in virtually every industry Formerly dubbed Scratchpad AXIOM is a powerful new symbolic and numerical system developed at the IBM Thomas J Watson Research Center AXIOM's scope structure and organization make it outstanding among computer algebra systems AXIOM The Scientific Computation System is a companion to the AXIOM system The text is written in a straightforward style and begins with a spirited foreword by David and Gregory Chudnovsky The book gives the reader a technical introduction to AXIOM interacts with the system's tutorial accesses algorithms newly developed by the symbolic computation community and presents advanced programming and problem solving techniques Eighty illustrations and eight pages of color inserts accompany text detailing methods used in the 2D and 3D interactive graphics system and over 2500 example input lines help the reader solve formerly intractable problems [\*\*Computer Algebra in Scientific Computing\*\*](#)  
**CASC'99** Victor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2012-12-06 The development of powerful computer algebra systems has considerably extended the scope of problems of scientific computing which can now be solved successfully with the aid of computers However as the field of applications of computer algebra in scientific computing becomes broader and more complex there is a danger of separation between theory systems and applications For this reason we felt the need to bring together the researchers who now apply the tools of computer algebra for the solution of problems in scientific computing in order to foster new and closer interactions CASC 99 is the second conference devoted to applications of computer algebra in scientific computing The first conference in this sequence CASC 98 was held 20-24 April 1998 in St

Petersburg Russia This volume contains revised versions of the papers submitted by the participants and accepted by the program committee after a thorough reviewing process The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scientific computing symbolic numeric analysis and solving differential equations efficient computations with polynomials groups matrices and other related objects special purpose programming environments application to physics mechanics optics and to other areas In particular a significant group of papers deals with applications of computer algebra methods for the solution of current problems in group theory which mostly arise in mathematical physics

### **Design and Implementation of Symbolic Computation Systems** Alfonso

Miola,1993-09-02 This volume constitutes the proceedings of the International Symposium on Design and Implementation of Symbolic Computation Systems DISCO 93 held in Gmunden Austria in September 1993 The growing importance of systems for symbolic computation has greatly influenced the decision of organizing this third conference in the series DISCO 93 focuses mainly on the most innovative methodological and technological aspects of the design and implementation of hardware and software systems for symbolic and algebraic computation automated reasoning geometric modeling and computation and automatic programming The general objective of DISCO 93 is to present an up to date view of the field and to serve as a forum for symbolic computation for the scientific exchange among academic industrial and user communities Besides invited talks by Buchberger Monagan Omodeo and Hong the volume contains 28 contributions carefully selected by a highly competent international program committee from a total of 56 submissions

### **Relativity and Scientific Computing**

Friedrich W Hehl,Roland A. Puntigam,Hanns Ruder,2012-12-06 For this set of lectures we assumed that the reader has a reasonable background in physics and some knowledge of general relativity the modern theory of gravity in macrophysics and cosmology Computer methods are presented by leading experts in the three main domains in numerics in computer algebra and in visualization The idea was that each of these subdisciplines is introduced by an extended set of main lectures and that each is conceived as being of comparable importance Therefore we believe that the book represents a good introduction into scientific computing for any student who wants to specialize in relativity gravitation and/or astrophysics We took great care to select lecturers who teach in a comprehensible way and who are at the same time at the research front of their respective field In numerics we had the privilege of having a lecturer from the National Center for Supercomputing Applications NCSA Champaign IL USA and some from other leading institutions of the world visualization was taught by a visualization expert from Boeing and in computer algebra we took recourse to practitioners of different computer algebra systems as applied to classical general relativity up to quantum gravity and differential geometry

### **NASA Tech Briefs**

,1992 **Computer Algebra in Scientific Computing** Vladimir P. Gerdt,Wolfram Koepf,Werner M. Seiler,Evguenii V. Vorozhtsov,2016-09-08 This book constitutes the proceedings of the 18th International Workshop on Computer Algebra in Scientific Computing CASC 2016 held in Bucharest Romania in September 2016 The 32 papers presented in this volume

were carefully reviewed and selected from 39 submissions They deal with cutting edge research in all major disciplines of Computer Algebra     **Computer Algebra Systems** Michael J. Wester,1999-07-16 This thorough overview of the major computer algebra symbolic mathematical systems compares and contrasts their strengths and weaknesses and gives tutorial information for using these systems in various ways Compares different packages quantitatively using standard test suites Ideal for assessing the most appropriate package for a particular user or application Examines the performance and future developments from a user s and developer s viewpoint Internationally recognized specialists overview both the general and special purpose systems and discuss issues such as denesting nested roots complex number calculations efficiently computing special polynomials solving single equations and systems of polynomial equations computing limits multiple integration solving ordinary differential and nonlinear evolution equations code generation evaluation and computer algebra in education The historical origins computer algebra resources and equivalents for many common operations in seven major packages are also covered By providing such a comprehensive survey the experienced user is able to make an informed decision on which system s he or she might like to use It also allows a user new to computer algebra to form an idea of where to begin Since each system looked at in this book uses a different language many examples are included to aid the user in adapting to these language differences These examples can be used as a guide to using the various systems once one understands the basic principles of one CAS The book also includes contributions which look at the broad issues of the needs of various users and future developments both from the user s and the developer s viewpoint The author is a leading figure in the development and analysis of mathematical software and is well known through the Wester test suite of problems which provide a bench mark for measuring the performance of mathematical software systems The book will help develop our range of titles for applied mathematicians The book will provide a unique fully up to date and independent assessment of particular systems and will be of interest to users and purchasers of CAS s

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**Computer Algebra and Theorem Proving** Clemens Ballarin, 1999 Abstract Is the use of computer algebra technology beneficial for mechanised reasoning in and about mathematical domains Usually it is assumed that it is Many works in this area however either have little reasoning content or use symbolic computation only to simplify expressions In work that has achieved more the used methods do not scale up They trust the computer algebra system either too much or too little Computer algebra systems are not as rigorous as many provers They are not logically sound reasoning systems but collections of algorithms We classify soundness problems that occur in computer algebra systems While many algorithms and their implementations are perfectly trustworthy the semantics of symbols is often unclear and leads to errors On the other hand more robust approaches to interface external reasoners to provers are not always practical because the mathematical depth of proofs algorithms in computer algebra are based on can be enormous Our own approach takes both trustworthiness of the overall system and efficiency into account It relies on using only reliable parts of a computer algebra system which can be achieved by choosing a suitable library and deriving specifications for these algorithms from their literature We design and implement an interface between the prover Isabelle and the computer algebra library Sumit sic and use it to prove non trivial theorems from coding theory This is based on the mechanisation of the algebraic theories of rings and polynomials Coding theory is an area where proofs do have a substantial amount of computational content Also it is realistic to assume that the verification of an encoding or decoding device could be undertaken in and indeed be simplified by such a system The

reason why semantics of symbols is often unclear in current computer algebra systems is not mathematical difficulty but the design of those systems For Gaussian elimination we show how the soundness problem can be fixed by a small extension and without losing efficiency This is a prerequisite for the efficient use of the algorithm in a prover *Euromath Bulletin*, 1996-06

Notices of the American Mathematical Society American Mathematical Society,1994 **Applied Algebra, Algebraic Algorithms, and Error-correcting Codes** ,1997 **ACM Transactions on Programming Languages and Systems** Association for Computing Machinery,1997 **Modern Group Analysis: Advanced Analytical and**

**Computational Methods in Mathematical Physics** Nail H. Ibragimov,M. Torrisi,A. Valenti,1993-09-30 On the occasion of the 150th anniversary of Sophus Lie an International Work shop Modern Group Analysis advanced analytical and computational methods in mathematical physics has been organized in Acireale Catania Sicily October 27 31 1992 The Workshop was aimed to enlighten the present state of this rapidly expanding branch of applied mathematics Main topics of the Conference were classical Lie groups applied for constructing invariant solutions and conservation laws conditional partial symmetries Backlund transformations approximate symmetries group analysis of finite difference equations problems of group classification software packages in group analysis The success of the Workshop was due to the participation of many experts in Group Analysis from different countries This book consists of selected papers presented at the Workshop We would like to thank the Scientific Committee for the generous support of recommending invited lectures and selecting the papers for this volume as well as the members of the Organizing Committee for their help The Workshop was made possible by the financial support of several sponsors that are listed below It is also a pleasure to thank our colleague Enrico Gregorio for his invaluable help of this volume

**Journal of Economic Literature** ,1993 **Higher Order Logic Theorem Proving and Its Applications** ,1994 Mathematech ,1994

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