

Computer Algebra Symbolic and Algebraic Computation

Second Edition

Edited by

B. Buchberger, G. E. Collins, and R. Loos
in cooperation with R. Albrecht

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Symbolic Algebraic Computation

Nobuyuki Inada, Takashi Soma



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Computer Algebra R. Albrecht, B. Buchberger, G.E. Collins, R. Loos, 2012-12-06 This gap In sixteen survey articles the most important theoretical results algorithms and software methods of computer algebra are covered together with systematic references to literature In addition some new results are presented Thus the volume should be a valuable source for obtaining a first impression of computer algebra as well as for preparing a computer algebra course or for complementary reading The preparation of some papers contained in this volume has been supported by grants from the Austrian Fonds zur Forderung der wissenschaftlichen Forschung Project No 3877 the Austrian Ministry of Science and Research Department 12 Dr S Hollinger the United States National Science Foundation Grant MCS 8009357 and the Deutsche Forschungsgemeinschaft Lo 23 1 2 The work on the volume was greatly facilitated by the opportunity for the editors to stay as visitors at the Department of Computer and Information Sciences University of Delaware at the General Electric Company Research and Development Center Schenectady N Y and at the Mathematical Sciences Department Rensselaer Polytechnic Institute Troy N Y respectively Our thanks go to all these institutions The patient and experienced guidance and collaboration of the Springer Verlag Wien during all the stages of production are warmly appreciated The editors of the Cooperative editor of Supplementum Computing B Buchberger R Albrecht G Collins R Loos Contents Loos R Introduction 1 Buchberger B Loos R Algebraic Simplification 11 Neubiiser J Computing with Groups and Their Character Tables 45 Norman A C Integration in Finite Terms

Computer Algebra and Symbolic Computation Joel S. Cohen, 2002-07-19 This book provides a systematic approach for the algorithmic formulation and implementation of mathematical operations in computer algebra programming languages The viewpoint is that mathematical expressions represented by expression trees are the data objects of computer algebra programs and by using a few primitive operations that analyze and

Symbolic and Algebraic Computation Patrizia Gianni, 1989-08-23 The ISSAC 88 is the thirteenth conference in a sequence of international events started in 1966 thanks to the then established ACM Special Interest Group on Symbolic and Algebraic Manipulation SIGSAM For the first time the two annual conferences International Symposium on Symbolic and Algebraic Computation ISSAC and International Conference on Applied Algebra Algebraic Algorithms and Error Correcting Codes AAEC have taken place as a Joint Conference in Rome July 4 8 1988 Twelve invited papers on subjects of common interest for the two conferences are included in the proceedings and divided between this volume and the preceding volume of Lecture Notes in Computer Science which is devoted to AAEC 6 This book contains contributions on the following topics Symbolic Algebraic and Analytical Algorithms Automatic Theorem Proving Automatic Programming Computational Geometry Problem Representation and Solution Languages and Systems for Symbolic Computation Applications to Sciences Engineering and Education

The Second RIKEN International Symposium on Symbolic and Algebraic Computation by Computers Nobuyuki Inada, Takashi S?ma, 1985 This proceedings is based on research work on formula manipulation and computer algebra culminating in the design and

construction of a formula manipulation machine at RIKEN known as the FLATS project

Computer Algebra Symbolic and Algebraic Computation Bruno Buchberger, George Edwin Collins, Rudiger Loos, 1982 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 insymbolic 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

Design and Implementation of Symbolic Computation Systems John Fitch, 1993-09-02 DISCO 92 was held on the Newton Park campus of Bath College of Higher Education England April 13 15 1992 Beside the formal lectures dedicated to design and implementation issues of computer algebra there were several software demonstrations and an opportunity for system designers to compare systems This volume presents the proceedings of the conference It contains 18 papers on a variety of design and implementation issues One general theme which clearly emerges is the need for interconnections between systems as no one systems incorporates all the facilities that users want Various efforts are being made to design such links but generally in limited contexts such as the Maple project or the Posso project

Computer Algebra and Symbolic Computation Joel S. Cohen, 2003-01-03 Mathematica Maple and similar software packages provide programs that carry out sophisticated mathematical operations Applying the ideas introduced in Computer Algebra and Symbolic Computation Elementary Algorithms this book explores the application of algorithms to such methods as automatic simplification polynomial decomposition and polyno

Proceedings of the ... International Symposium Symbolic and Algebraic Computation , 1990 Proceedings of the International Symposium on Symbolic and Algebraic Computation ISSAC (15, 1990, Tōkyō), Shunro Watanabe, 1990

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