

ALGORITHMS FOR COMPUTER ALGEBRA

Keith O. Geddes
Stephen R. Czapor
George Labahn

Kluwer Academic Publishers

Algorithms For Computer Algebra

**Arjeh M. Cohen, Hans Cuypers, Hans
Stern**



Algorithms For Computer Algebra:

Algorithms for Computer Algebra Keith O. Geddes, Stephen R. Czapor, George Labahn, 2007-06-30 Algorithms for Computer Algebra is the first comprehensive textbook to be published on the topic of computational symbolic mathematics. The book first develops the foundational material from modern algebra that is required for subsequent topics. It then presents a thorough development of modern computational algorithms for such problems as multivariate polynomial arithmetic and greatest common divisor calculations, factorization of multivariate polynomials, symbolic solution of linear and polynomial systems of equations, and analytic integration of elementary functions. Numerous examples are integrated into the text as an aid to understanding the mathematical development. The algorithms developed for each topic are presented in a Pascal-like computer language. An extensive set of exercises is presented at the end of each chapter. Algorithms for Computer Algebra is suitable for use as a textbook for a course on algebraic algorithms at the third year, fourth year, or graduate level. Although the mathematical development uses concepts from modern algebra, the book is self-contained in the sense that a one-term undergraduate course introducing students to rings and fields is the only prerequisite assumed. The book also serves well as a supplementary textbook for a traditional modern algebra course by presenting concrete applications to motivate the understanding of the theory of rings and fields.

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 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 Förderung 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

Polynomial Algorithms in Computer Algebra Franz Winkler, 2012-12-06 For several years now I have been teaching courses in computer algebra at the Universitat Linz the University of Delaware and the Universidad de Alcalá de Henares In the summers of 1990 and 1992 I have organized and taught summer schools in computer algebra at the Universitat Linz Gradually a set of course notes has emerged from these activities People have asked me for copies of the course notes and different versions of them have been circulating for a few years Finally I decided that I should really take the time to write the material up in a coherent way and make a book out of it Here now is the result of this work Over the years many students have been helpful in improving the quality of the notes and also several colleagues at Linz and elsewhere have contributed to it I want to thank them all for their effort in particular I want to thank B Buchberger who taught me the theory of Gr bner bases nearly two decades ago B F Caviness and B D Saunders who first stimulated my interest in various problems in computer algebra G E Collins who showed me how to compute in algebraic domains and J R Sendra with whom I started to apply computer algebra methods to problems in algebraic geometry Several colleagues have suggested improvements in earlier versions of this book However I want to make it clear that I am responsible for all remaining mistakes

Algorithms for Computer Algebra K. O. Geddes, 1992 Computer Algebra Handbook Johannes Grabmeier, 2003 This Handbook gives a comprehensive snapshot of a field at the intersection of mathematics and computer science with applications in physics engineering and education Reviews 67 software systems and offers 100 pages on applications in physics mathematics computer science engineering chemistry and education

Some Tapas of Computer Algebra Arjeh M. Cohen, Hans Cuypers, Hans Sterk, 2013-03-09 In the years 1994 1995 two EIDMA mini courses on Computer Algebra were given at the Eindhoven University of Technology by apart from ourselves various invited lecturers EIDMA is the Research School Euler Institute for Discrete Mathematics and its Applications The idea of the courses was to acquaint young mathematicians with algorithms and software for mathematical research and to enable them to incorporate algorithms in their research A collection of lecture notes was used at these courses When discussing these courses in comparison with other kinds of courses one might give in a week's time Joachim Neuberger referred to our courses as tapas This denomination underlined that the courses consisted of appetizers for various parts of algorithmic algebra indeed we covered such spicy topics as the link between Gr bner bases and integer programming and the detection of algebraic solutions to differential equations As a collection the notes turned out to have some appeal of their own which is the main reason why the idea came up of transforming them into book form We felt however that the book should be distinguishable from a standard textbook on computer algebra in that it retains its appetizing flavour by presenting a variety of topics at an accessible level with a view to recent developments

Computing in Algebraic Geometry Wolfram Decker, Christoph Lossen, 2006-05-01 This book provides a quick access to computational tools for algebraic geometry the mathematical discipline which handles solution

sets of polynomial equations Originating from a number of intense one week schools taught by the authors the text is designed so as to provide a step by step introduction which enables the reader to get started with his own computational experiments right away The authors present the basic concepts and ideas in a compact way

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

Computer Algebra Wolfram Koepf, 2021 This textbook offers an algorithmic introduction to the field of computer algebra A leading expert in the field the author guides readers through numerous hands on tutorials designed to build practical skills and algorithmic thinking This implementation oriented approach equips readers with versatile tools that can be used to enhance studies in mathematical theory applications or teaching Presented using Mathematica code the book is fully supported by downloadable sessions in Mathematica Maple and Maxima Opening with an introduction to computer algebra systems and the basics of programming mathematical algorithms the book goes on to explore integer arithmetic A chapter on modular arithmetic completes the number theoretic foundations which are then applied to coding theory and cryptography From here the focus shifts to polynomial arithmetic and algebraic numbers with modern algorithms allowing the efficient factorization of polynomials The final chapters offer extensions into more advanced topics simplification and normal forms power series summation formulas and integration Computer Algebra is an indispensable resource for mathematics and computer science students new to the field Numerous examples illustrate algorithms and their implementation throughout with online support materials to encourage hands on exploration Prerequisites are minimal with only a knowledge of calculus and linear algebra assumed In addition to classroom use the elementary approach and detailed index make this book an ideal reference for algorithms in computer algebra

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