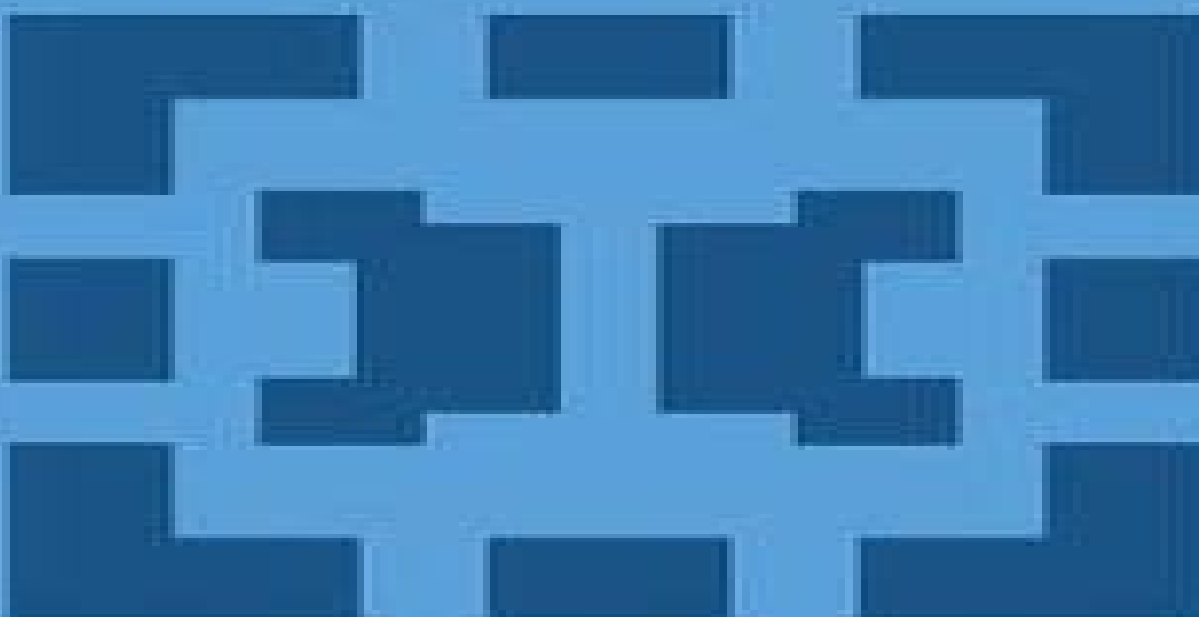


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Elimination Methods in Polynomial Computer Algebra



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Elimination Methods In Polynomial Computer Algebra

**Viktor G. Ganzha, Ernst W.
Mayr, Evgenii V. Vorozhtsov**



Elimination Methods In Polynomial Computer Algebra:

Elimination Methods in Polynomial Computer Algebra V. Bykov, A. Kytmanov, M. Lazman, Mikael Passare, 2012-12-06

The subject of this book is connected with a new direction in mathematics which has been actively developed over the last few years namely the field of polynomial computer algebra which lies at the intersection point of algebra mathematical analysis and programming There were several incentives to write the book First of all there has lately been a considerable interest in applied nonlinear problems characterized by multiple stationary states Practical needs have then in their turn led to the appearance of new theoretical results in the analysis of systems of nonlinear algebraic equations And finally the introduction of various computer packages for analytic manipulations has made it possible to use complicated elimination theoretical algorithms in practical research The structure of the book is accordingly represented by three main parts Mathematical results driven to constructive algorithms computer algebra realizations of these algorithms and applications Nonlinear systems of algebraic equations arise in diverse fields of science In particular for processes described by systems of differential equations with a polynomial right hand side one is faced with the problem of determining the number and location of the stationary states in certain sets [Elimination Methods in Polynomial Computer Algebra](#) V Bykov, A Kytmanov, M Lazman, 1998-10-31 **Elimination Methods** D. Wang, 2012-12-06 The development of polynomial elimination techniques from classical theory to modern algorithms has undergone a tortuous and rugged path This can be observed L van der Waerden's elimination of the elimination theory chapter from his classic *Modern Algebra* in later editions A Weil's hope to eliminate from algebraic geometry the last traces of elimination theory and S Abhyankar's suggestion to eliminate the eliminators of elimination theory The renaissance and recognition of polynomial elimination owe much to the advent and advance of modern computing technology based on which effective algorithms are implemented and applied to diverse problems in science and engineering In the last decade both theorists and practitioners have more and more realized the significance and power of elimination methods and their underlying theories Active and extensive research has contributed a great deal of new developments on algorithms and software tools to the subject that have been widely acknowledged Their applications have taken place from pure and applied mathematics to geometric modeling and robotics and to artificial neural networks This book provides a systematic and uniform treatment of elimination algorithms that compute various zero decompositions for systems of multivariate polynomials The central concepts are triangular sets and systems of different kinds in terms of which the decompositions are represented The prerequisites for the concepts and algorithms are results from basic algebra and some knowledge of algorithmic mathematics **Computer Algebra Handbook** Johannes Grabmeier, Erich Kaltofen, Volker Weispfenning, 2012-12-06 Two ideas lie gleaming on the jeweler's velvet The first is the calculus the second the algorithm The calculus and the rich body of mathematical analysis to which it gave rise made modern science possible but it has been the algorithm that has made possible the modern world David Berlinski *The Advent*

of the Algorithm First there was the concept of integers then there were symbols for integers I II III 1111 fttt what might be called a sticks and stones representation I II III IV V Roman numerals 1 2 3 4 5 Arabic numerals etc Then there were other concepts with symbols for them and algorithms sometimes for manipulating the new symbols Then came collections of mathematical knowledge tables of mathematical computations theorems of general results Soon after algorithms came devices that provided assistance for carrying out computations Then mathematical knowledge was organized and structured into several related concepts and symbols logic algebra analysis topology algebraic geometry number theory combinatorics etc This organization and abstraction lead to new algorithms and new fields like universal algebra But always our symbol systems reflected and influenced our thinking our concepts and our algorithms

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 Alcala 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 and Techniques in Computer Algebra Pasquale De Marco, 2025-07-15 Algorithms and Techniques in Computer Algebra provides a comprehensive introduction to this rapidly developing field covering the basic concepts core algorithms and practical applications of computer algebra Suitable for both undergraduate and graduate students in computer science mathematics and engineering this book is an essential resource for anyone looking to master the essential concepts and techniques of computer algebra With in depth explanations illustrative examples and comprehensive exercises this book covers a wide range of topics from the basic concepts of field theory and ring theory to advanced topics such as Gr bner bases and analytic integration It also includes a chapter dedicated to recent developments and open problems in computer algebra keeping readers abreast of the latest advancements in the field One of the key strengths of Algorithms and Techniques in Computer Algebra is its focus on practical applications It demonstrates how computer algebra can be used to solve real world problems in various fields including cryptography coding theory robotics computer graphics and artificial intelligence This makes the book not only a

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Solving Polynomial Equations Alicia Dickenstein, 2005-04-27 This book provides a general introduction to modern mathematical aspects in computing with multivariate polynomials and in solving algebraic systems It presents the state of the art in several symbolic numeric and symbolic numeric techniques including effective and algorithmic methods in algebraic geometry and computational algebra complexity issues and applications ranging from statistics and geometric modelling to robotics and vision Graduate students as well as researchers in related areas will find an excellent introduction to currently interesting topics These cover Groebner and border bases multivariate resultants residues primary decomposition multivariate polynomial factorization homotopy continuation complexity issues and their applications

Computer Algebra in Scientific Computing François Boulrier, Chenqi Mou, Timur M. Sadykov, Evgenii V. Vorozhtsov, 2024-08-20 This book constitutes the refereed proceedings of the 26th International Workshop on Computer Algebra in Scientific Computing CASC 2024 which took place in Rennes France during September 2 September 6 2024 The 19 full papers included in this book were carefully reviewed and selected from 23 submissions The annual International Workshop CASC 2024 aims to bring together researchers in theoretical computer algebra CA engineers scholars as well as other allied professionals applying CA tools for solving problems in industry and in various branches of scientific computing to explore and discuss advancements challenges and innovations related to CA

Computer Mathematics - Proceedings Of The Fifth Asian Symposium (Ascm 2001) Kiyoshi Shirayanagi, Kazuhiro Yokoyama, 2001-09-18 This volume covers some of the most recent and significant advances in computer mathematics including algebraic symbolic numeric and geometric computation automated mathematical reasoning mathematical software and computer aided geometric design Researchers engineers academics and graduate students interested in doing mathematics using computers will find this volume good reading and a valuable reference

Computer Algebra in Scientific Computing CASC 2001 Viktor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2012-12-06 CASC 2001 continues a tradition started in 1998 of international conferences on the latest advances in the application of computer algebra systems to the solution of various problems in scientific computing The three earlier CASC conferences in this sequence CASC 98 CASC 99 and CASC 2000 were held Petersburg Russia in Munich Germany and in Samarkand respectively in St Uzbekistan and proved to be very successful We have to thank the program committee listed overleaf for a tremendous job in soliciting and providing reviews for the submitted papers There were more than three reviews per submission on average The result of this job is reflected in the present volume which contains revised versions of the

accepted papers The collection of papers included in the proceedings covers various topics of computer algebra methods algorithms and software applied to scientific computing In particular five papers are devoted to the implementation of the analysis of involutive systems with the aid of CASs The specific examples include new efficient algorithms for the computation of Janet bases for monomial ideals involutive division involutive reduction method etc A number of papers deal with application of CASs for obtaining and validating new exact solutions to initial and boundary value problems for partial differential equations in mathematical physics Several papers show how CASs can be used to obtain analytic solutions of initial and boundary value problems for ordinary differential equations and for studying their properties

Computer Algebra R. Albrecht, B. Buchberger, G.E. Collins, R. Loos, 2013-06-29 The journal Computing has established a series of supplement volumes the fourth of which appears this year Its purpose is to provide a coherent presentation of a new topic in a single volume The previous subjects were Computer Arithmetic 1977 Fundamentals of Numerical Computation 1980 and Parallel Processes and Related Automata 1981 the topic of this 1982 Supplementum to Computing is Computer Algebra This subject which emerged in the early nineteen sixties has also been referred to as symbolic and algebraic computation or formula manipulation Algebraic algorithms have been receiving increasing interest as a result of the recognition of the central role of algorithms in computer science They can be easily specified in a formal and rigorous way and provide solutions to problems known and studied for a long time Whereas traditional algebra is concerned with constructive methods computer algebra is furthermore interested in efficiency in implementation and in hardware and software aspects of the algorithms It develops that in deciding effectiveness and determining efficiency of algebraic methods many other tools recursion theory logic analysis and combinatorics for example are necessary In the beginning of the use of computers for symbolic algebra it soon became apparent that the straightforward textbook methods were often very inefficient Instead of turning to numerical approximation methods computer algebra studies systematically the sources of the inefficiency and searches for alternative algebraic methods to improve or even replace the algorithms

Computer Algebra in Scientific Computing Viktor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2012-12-06 Proceedings of the Third Workshop on Computer Algebra in Scientific Computing Samarkand October 5-9 2000

Computer Algebra in Scientific Computing Vladimir P. Gerdt, Wolfram Koepf, Werner M. Seiler, Evgenii V. Vorozhtsov, 2017-09-07 This book constitutes the proceedings of the 19th International Workshop on Computer Algebra in Scientific Computing CASC 2017 held in Beijing China in September 2017 The 28 full papers presented in this volume were carefully reviewed and selected from 33 submissions They deal with cutting edge research in all major disciplines of Computer Algebra

EUROCAL '85. European Conference on Computer Algebra. Linz, Austria, April 1-3, 1985. Proceedings Bruno Buchberger, 1985

Foundations of Computational Mathematics Ronald A. DeVore, Arieh Iserles, Endre Süli, 2001-05-17 Collection of papers by leading researchers in computational mathematics suitable for graduate students and researchers

Discrete and Computational Geometry Jacob

E. Goodman, Richard D. Pollack, William L. Steiger, 1991-01-01 The first DIMACS special year held during 1989 1990 was devoted to discrete and computational geometry More than 200 scientists both long and short term visitors came to DIMACS to participate in the special year activities Among the highlights were six workshops at Rutgers and Princeton Universities that defined the focus for much of the special year The workshops addressed the following topics geometric complexity probabilistic methods in discrete and computational geometry polytopes and convex sets arrangements and algebraic and practical issues in geometric computation This volume presents some of the results growing out of the workshops and the special year activities Containing both survey articles and research papers this collection presents an excellent overview of significant recent progress in discrete and computational geometry The diversity of these papers demonstrate how geometry continues to provide a vital source of ideas in theoretical computer science and discrete mathematics as well as fertile ground for interaction and simulation between the two disciplines **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 AAECC 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 AAECC 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 **Mathematical Concepts and Methods in Modern Biology** Raina Robeva, Terrell Hodge, 2013-02-26 Mathematical Concepts and Methods in Modern Biology offers a quantitative framework for analyzing predicting and modulating the behavior of complex biological systems The book presents important mathematical concepts methods and tools in the context of essential questions raised in modern biology Designed around the principles of project based learning and problem solving the book considers biological topics such as neuronal networks plant population growth metabolic pathways and phylogenetic tree reconstruction The mathematical modeling tools brought to bear on these topics include Boolean and ordinary differential equations projection matrices agent based modeling and several algebraic approaches Heavy computation in some of the examples is eased by the use of freely available open source software Features self contained chapters with real biological research examples using freely available computational tools Spans several mathematical techniques at basic to advanced levels Offers broad perspective on the uses of algebraic geometry polynomial algebra in molecular systems biology *Computer Algebra in Scientific Computing* V.G. Ganzha, E.W. Mayr, E.V. Vorozhtsov, 2006-11-30 This volume contains revised versions of the papers

submitted to the workshop by the participants and accepted by the program committee after a thorough reviewing process. The collection of papers included in the proceedings covers not only various expanding applications of computer algebra to scientific computing but also the computer algebra systems themselves and the CA algorithms. The eight earlier CASC conferences CASC 1998 CASC 1999 CASC 2000 CASC 2001 CASC 2002 CASC 2003 CASC 2004 and CASC 2005 were held respectively in St Petersburg Russia in Munich Germany in Samarkand Uzbekistan in Konstanz Germany in Crimea Ukraine in Passau Germany in St Petersburg Russia and in Kalamata Greece and they proved to be successful. It was E. A. Grebenikow, Computing Center of the Russian Academy of Sciences, Moscow, who drew our attention to the group of mathematicians and computer scientists at the Academy of Sciences of Moldova conducting research in the field of computer algebra. We were impressed that this group not only is concerned with applications of CA methods to problems of scientific computing but also carries out research on the fundamental principles underlying the current computer algebra systems themselves; see also their papers in the present proceedings volume. It was therefore decided to organize the 9th workshop on Computer Algebra in Scientific Computing CASC 2006 in Chişinău, the capital of Moldova.

Kinetics of Chemical Reactions Guy B. Marin, Gregory S. Yablonsky, Denis Constales, 2019-04-29. This second extended and updated edition presents the current state of kinetics of chemical reactions combining basic knowledge with results recently obtained at the frontier of science. Special attention is paid to the problem of the chemical reaction complexity with theoretical and methodological concepts illustrated throughout by numerous examples taken from heterogeneous catalysis, combustion and enzyme processes. Of great interest to graduate students in both chemistry and chemical engineering.

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