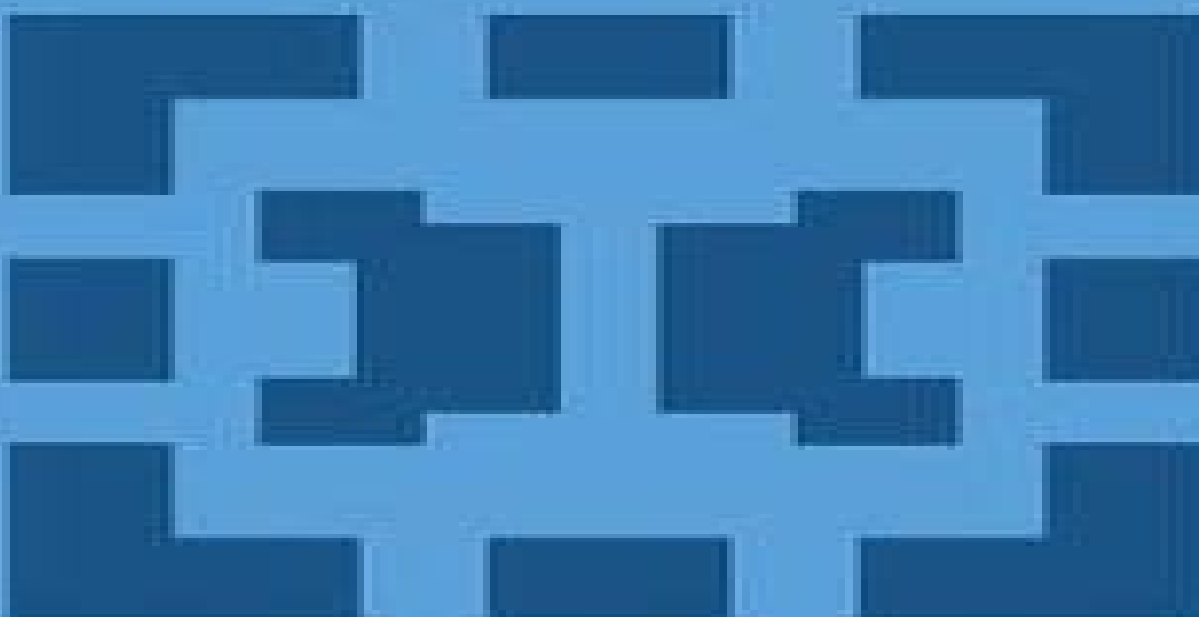


Mathematics and Its Applications

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# Elimination Methods in Polynomial Computer Algebra



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# Elimination Methods In Polynomial Computer Algebra

**V.G. Ganzha, E.W. Mayr, E.V.  
Vorozhtsov**



## **Elimination Methods In Polynomial Computer Algebra:**

*Elimination Methods in Polynomial Computer Algebra* V Bykov, A Kytmanov, M Lazman, 1998-10-31      **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* 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

*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

*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

**Elimination Practice** Dongming Wang, 2004 Polynomial Elimination at Work The Epsilon Library The CharSets Package The TriSys and SiSys Modules The GEOTHER Environment Relevant Elimination Tools Solving Polynomial Systems Automated Theorem Proving and Discovering in Geometry Symbolic Geometric Computation Selected Problems in Computer Mathematics

*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

**Computer Algebra in Scientific Computing** V.G. Ganzha, E.W. Mayr, E.V. Vorozhtsov, 2007-09-12

This book constitutes the refereed proceedings of the 10th International Workshop on Computer Algebra in Scientific Computing CASC 2007 held in Bonn Germany in September 2007 The volume is dedicated to Professor Vladimir P Gerdt on the occasion of his 60th birthday The 35 revised full papers presented were carefully reviewed and selected from numerous submissions for inclusion in the book The papers cover not only various expanding applications of computer algebra to scientific computing but also the computer algebra systems themselves and the CA algorithms Topics addressed are studies in polynomial and matrix algebra quantifier elimination and Gr bner bases as well as stability investigation of both differential equations and difference methods for them Several papers are devoted to the application of computer algebra methods and algorithms to the derivation of new mathematical models in biology and in mathematical physics

**Computer Algebra in Scientific Computing** Victor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2005-09-16 Greece offers excellent infrastructures for hosting international conferences and this was a reason for us to choose the city of Kalamata Greece as the location for CASC 2005 the eighth conference in the sequence of CASC conferences

**Singular Quadratic Forms in Perturbation Theory** Volodymyr Koshmanenko, 2012-12-06 The notion of singular quadratic form appears in mathematical physics as a tool for the investigation of formal expressions corresponding to perturbations devoid of operator sense Numerous physical models are based on the use of Hamiltonians containing perturbation terms with singular properties Typical examples of such expressions are Schrodinger operators with  $O$  potentials AD and Hamiltonians in quantum field theory with perturbations given in terms of operators of creation and annihilation P

**Superanalysis** Andrei Y. Khrennikov, 2012-12-06 defined as elements of Grassmann algebra an algebra with anticommuting generators The derivatives of these elements with respect to anticommuting generators were defined according to algebraic laws and nothing like Newton's analysis arose when Martin's approach was used Later during the next twenty years the algebraic apparatus developed by Martin was used in all mathematical works We must point out here the considerable contribution made by F A Berezin G I Kac D A Leites B Kostant In their works they constructed a new division of mathematics which can naturally be called an algebraic superanalysis Following the example of physicists researchers called the investigations carried out with the use of commuting and anticommuting coordinates supermathematics all mathematical objects that appeared in supermathematics were called superobjects although of course there is nothing super in supermathematics However despite the great achievements in algebraic superanalysis this formalism could not be regarded as a generalization to the case of commuting and anticommuting variables from the ordinary Newton analysis What is more Schwinger's formalism was still used in practically all physical works on an intuitive level and physicists regarded functions of anticommuting variables as real functions maps of sets and not as elements of Grassmann algebras In 1974 Salam and Strathdee proposed a very apt name for a set of super points They called this set a superspace

**Hilbert Spaces, Wavelets, Generalised Functions and Modern Quantum Mechanics** W.-H. Steeb, 2013-03-07 This book gives a

comprehensive introduction to modern quantum mechanics emphasising the underlying Hilbert space theory and generalised function theory All the major modern techniques and approaches used in quantum mechanics are introduced such as Berry phase coherent and squeezed states quantum computing solitons and quantum mechanics Audience The book is suitable for graduate students in physics and mathematics Parametric Lie Group Actions on Global Generalised Solutions of Nonlinear PDEs Elemer E. Rosinger, 2013-03-09 This book presents global actions of arbitrary Lie groups on large classes of

generalised functions by using a novel parametric approach This new method extends and completes earlier results of the author and collaborators in which global Lie group actions on generalised functions were only defined in the case of projectable or fibre preserving Lie group actions The parametric method opens the possibility of dealing with vastly larger classes of Lie semigroup actions which still transform solutions into solutions These Lie semigroups can contain arbitrary noninvertible smooth mappings Thus they cannot be subsemigroups of Lie groups Audience This volume is addressed to graduate students and researchers involved in solving linear and nonlinear partial differential equations and in particular in dealing with the Lie group symmetries of their classical or generalised solutions Functional Differential Equations A.V. Kim, 2013-04-17 Beginning with the works of N N Krasovskii 81 82 83 which clarified the functional nature of systems with delays the functional approach provides a foundation for a complete theory of differential equations with delays Based on the functional approach different aspects of time delay system theory have been developed with almost the same completeness as the corresponding field of ODE ordinary differential equations the ordinary The term functional differential equations FDE is used as a synonym for systems with delays 1 The systematic presentation of these results and further references can be found in a number of excellent books 2 15 22 32 34 38 41 45 50 52 77 78 81 93 102 128 In this monograph we present basic facts of smooth calculus a new differential calculus of nonlinear functionals based on the notion of the invariant derivative and some of its applications to the qualitative theory of functional differential equations Utilization of the new calculus is the main distinction of this book from other books devoted to FDE theory Two other distinguishing features of the volume are the following the central concept that we use is the separation of finite dimensional and infinite dimensional components in the structures of FDE and functionals we use the conditional representation of functional differential equations which is convenient for application of methods and constructions of smooth calculus to FDE theory **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 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      **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      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

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