

Algorithms  
and Computation  
in Mathematics

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Alicia Dickenstein  
Ioannis Z. Emiris  
Editors

# **Solving Polynomial Equations**

Foundations,  
Algorithms,  
and Applications



Springer

# Solving Polynomial Equations Foundations Algorithms And Applications

**Nicholas N. Olenov, Yuri G.  
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Khachay, Vlasta Malkova**

## **Solving Polynomial Equations Foundations Algorithms And Applications:**

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

*Solving Polynomial Equations* Alicia Dickenstein, Ioannis Z. Emiris, 2005-12-29 The subject of this book is the solution of polynomial equations that is systems of generally non linear algebraic equations This study is at the heart of several areas of mathematics and its applications It has provided the motivation for advances in different branches of mathematics such as algebra geometry topology and numerical analysis In recent years an explosive development of algorithms and software has made it possible to solve many problems which had been intractable up to then and greatly expanded the areas of applications to include robotics machine vision signal processing structural molecular biology computer aided design and geometric modelling as well as certain areas of statistics optimization and game theory and biological networks At the same time symbolic computation has proved to be an invaluable tool for experimentation and conjecture in pure mathematics As a consequence the interest in effective algebraic geometry and computer algebra has extended well beyond its original constituency of pure and applied mathematicians and computer scientists to encompass many other scientists and engineers While the core of the subject remains algebraic geometry it also calls upon many other aspects of mathematics and theoretical computer science ranging from numerical methods differential equations and number theory to discrete geometry combinatorics and complexity theory

The goal of this book is to provide a general introduction to modern mathematical aspects in computing with multivariate polynomials and in solving algebraic systems

Algorithms and Theory of Computation Handbook, Volume 1 Mikhail J. Atallah, Marina Blanton, 2009-11-20 Algorithms and Theory of Computation Handbook Second Edition General Concepts and Techniques provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many

Computer Algebra in Scientific Computing Victor G. Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2005-09-16

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**Mathematical Software - ICMS 2006** Andres Iglesias, Nobuki Takayama, 2006-08-31 This book constitutes the refereed proceedings of the Second International Congress on Mathematical Software ICMS 2006 The book presents 45 revised full

papers carefully reviewed and selected for presentation The papers are organized in topical sections on new developments in computer algebra packages interfacing computer algebra in mathematical visualization software for algebraic geometry and related topics number theoretical software methods in computational number theory free software for computer algebra and general issues

*Progress in Cryptology - AFRICACRYPT 2022* Lejla Batina,Joan Daemen,2022-10-05 This book constitutes the refereed proceedings of the 13th International Conference on Progress in Cryptology in Africa AFRICACRYPT 2022 held in Fes Morocco from July 18th 20th 2022 The 25 papers presented in this book were carefully reviewed and selected from 68 submissions The papers are organized in topical sections on symmetric cryptography attribute and identity based encryption symmetric cryptanalysis post quantum cryptography post quantum crypt analysis side channel attacks protocols and foundations public key crypt analysis

Algorithms and Theory of Computation Handbook - 2 Volume Set Mikhail J. Atallah,Marina Blanton,2022-05-29 Algorithms and Theory of Computation Handbook Second Edition in a two volume set provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems New to the Second Edition Along with updating and revising many of the existing chapters this second edition contains more than 20 new chapters This edition now covers external memory parameterized self stabilizing and pricing algorithms as well as the theories of algorithmic coding privacy and anonymity databases computational games and communication networks It also discusses computational topology computational number theory natural language processing and grid computing and explores applications in intensity modulated radiation therapy voting DNA research systems biology and financial derivatives This best selling handbook continues to help computer professionals and engineers find significant information on various algorithmic topics The expert contributors clearly define the terminology present basic results and techniques and offer a number of current references to the in depth literature They also provide a glimpse of the major research issues concerning the relevant topics

A Mathematical Theory of Design: Foundations, Algorithms and Applications D. Braha,O. Maimon,2013-04-17 Formal Design Theory PDT is a mathematical theory of design The main goal of PDT is to develop a domain independent core model of the design process The book focuses the reader s attention on the process by which ideas originate and are developed into workable products In developing PDT we have been striving toward what has been expressed by the distinguished scholar Simon 1969 that the science of design is possible and some day we will be able to talk in terms of well established theories and practices The book is divided into five interrelated parts The conceptual approach is presented first Part I followed by the theoretical foundations of PDT Part II and from which the algorithmic and pragmatic implications are deduced Part III Finally detailed case studies illustrate the theory and the methods of the design process Part IV and additional practical considerations are evaluated Part V The generic nature of the concepts theory and methods are validated by examples from a variety of disciplines FDT explores issues such as algebraic representation of design artifacts idealized design process cycle

and computational analysis and measurement of design process complexity and quality FDT's axioms convey the assumptions of the theory about the nature of artifacts and potential modifications of the artifacts in achieving desired goals or functionality By being able to state these axioms explicitly it is possible to derive theorems and corollaries as well as to develop specific analytical and constructive methodologies

*Handbook on Semidefinite, Conic and Polynomial Optimization* Miguel F. Anjos, Jean B. Lasserre, 2011-11-19 Semidefinite and conic optimization is a major and thriving research area within the optimization community Although semidefinite optimization has been studied under different names since at least the 1940s its importance grew immensely during the 1990s after polynomial time interior point methods for linear optimization were extended to solve semidefinite optimization problems Since the beginning of the 21st century not only has research into semidefinite and conic optimization continued unabated but also a fruitful interaction has developed with algebraic geometry through the close connections between semidefinite matrices and polynomial optimization This has brought about important new results and led to an even higher level of research activity This Handbook on Semidefinite Conic and Polynomial Optimization provides the reader with a snapshot of the state of the art in the growing and mutually enriching areas of semidefinite optimization conic optimization and polynomial optimization It contains a compendium of the recent research activity that has taken place in these thrilling areas and will appeal to doctoral students young graduates and experienced researchers alike The Handbook's thirty one chapters are organized into four parts Theory covering significant theoretical developments as well as the interactions between conic optimization and polynomial optimization Algorithms documenting the directions of current algorithmic development Software providing an overview of the state of the art Applications dealing with the application areas where semidefinite and conic optimization has made a significant impact in recent years

The Numerical Solution of Systems of Polynomials Arising in Engineering and Science Andrew John Sommese, Charles Weldon Wampler (II.), 2005 Written by the founders of the new and expanding field of numerical algebraic geometry this is the first book that uses an algebraic geometric approach to the numerical solution of polynomial systems and also the first one to treat numerical methods for finding positive dimensional solution sets The text covers the full theory from methods developed for isolated solutions in the 1980's to the most recent research on positive dimensional sets

Algebra, Geometry and Their Interactions Alberto Corso, Juan Carlos Migliore, Claudia Polini, 2007 This volume's papers present work at the cutting edge of current research in algebraic geometry commutative algebra numerical analysis and other related fields with an emphasis on the breadth of these areas and the beneficial results obtained by the interactions between these fields This collection of two survey articles and sixteen refereed research papers written by experts in these fields gives the reader a greater sense of some of the directions in which this research is moving as well as a better idea of how these fields interact with each other and with other applied areas The topics include blowup algebras linkage theory Hilbert functions divisors vector bundles determinantal varieties square free monomial ideals multiplicities and

cohomological degrees and computer vision      *Optimization and Applications* Nicholas N. Olenev, Yuri G. Evtushenko, Milojica Jaćimović, Michael Khachay, Vlasta Malkova, 2021-11-04 This book constitutes the refereed proceedings of the 12th International Conference on Optimization and Applications OPTIMA 2021 held in Petrovac Montenegro in September-October 2021. The 22 full and 3 short papers presented were carefully reviewed and selected from 63 submissions. The papers are organized into the following topical sub-headings: mathematical programming, global optimization, discrete and combinatorial optimization, optimal control, optimization and data analysis, and game theory and mathematical economics.

Computer Algebra in Scientific Computing, 2005      Geospatial Algebraic Computations Joseph Awange, Béla Paláncz, 2016-01-29 Improved geospatial instrumentation and technology such as in laser scanning has now resulted in millions of data being collected, e.g. point clouds. It is in realization that such huge amount of data requires efficient and robust mathematical solutions that this third edition of the book extends the second edition by introducing three new chapters: Robust parameter estimation, Multiobjective optimization, and Symbolic regression. Furthermore, the linear homotopy chapter is expanded to include nonlinear homotopy. These disciplines are discussed first in the theoretical part of the book before illustrating their geospatial applications in the applications chapters where numerous numerical examples are presented. The renewed electronic supplement contains these new theoretical and practical topics with the corresponding Mathematica statements and functions supporting their computations introduced and applied. This third edition is renamed in light of these technological advancements      **Computing Handbook, Third Edition** Teofilo Gonzalez, Jorge

Díaz-Herrera, Allen Tucker, 2014-05-07 **Computing Handbook Third Edition** Computer Science and Software Engineering mirrors the modern taxonomy of computer science and software engineering as described by the Association for Computing Machinery (ACM) and the IEEE Computer Society (IEEE CS). Written by established leading experts and influential young researchers, the first volume of this popular handbook examines the elements involved in designing and implementing software, new areas in which computers are being used, and ways to solve computing problems. The book also explores our current understanding of software engineering and its effect on the practice of software development and the education of software professionals. Like the second volume, this first volume describes what occurs in research laboratories, educational institutions, and public and private organizations to advance the effective development and use of computers and computing in today's world. Research-level survey articles provide deep insights into the computing discipline, enabling readers to understand the principles and practices that drive computing education, research, and development in the twenty-first century.

**Mixed Integer Nonlinear Programming** Jon Lee, Sven Leyffer, 2011-12-02 Many engineering operations and scientific applications include a mixture of discrete and continuous decision variables and nonlinear relationships involving the decision variables that have a pronounced effect on the set of feasible and optimal solutions. Mixed integer nonlinear programming (MINLP) problems combine the numerical difficulties of handling nonlinear functions with the challenge of

optimizing in the context of nonconvex functions and discrete variables MINLP is one of the most flexible modeling paradigms available for optimization but because its scope is so broad in the most general cases it is hopelessly intractable Nonetheless an expanding body of researchers and practitioners including chemical engineers operations researchers industrial engineers mechanical engineers economists statisticians computer scientists operations managers and mathematical programmers are interested in solving large scale MINLP instances **Software for Algebraic Geometry**

Michael E. Stillman, Nobuki Takayama, Jan Verschelde, 2008-05-29 Algorithms in algebraic geometry go hand in hand with software packages that implement them Together they have established the modern field of computational algebraic geometry which has come to play a major role in both theoretical advances and applications Over the past fifteen years several excellent general purpose packages for computations in algebraic geometry have been developed such as CoCoA Singular and Macaulay 2 While these packages evolve continuously incorporating new mathematical advances they both motivate and demand the creation of new mathematics and smarter algorithms This volume reflects the workshop Software for Algebraic Geometry held in the week from 23 to 27 October 2006 as the second workshop in the thematic year on Applications of Algebraic Geometry at the IMA The papers in this volume describe the software packages Bertini PHClib Gfan DEMiCs SYNAPS TrIm Gambit ApaTools and the application of Risa Asir to a conjecture on multiple zeta values They offer the reader a broad view of current trends in computational algebraic geometry through software development and applications *Computer Algebra in Scientific Computing* Vladimir P. Gerdt, Wolfram Koepf, Werner M. Seiler, Evgenii V. Vorozhtsov, 2018-09-03 This book constitutes the proceedings of the 20th International Workshop on Computer Algebra in Scientific Computing CASC 2018 held in Lille France in September 2018 The 24 full papers of this volume presented with an abstract of an invited talk and one paper corresponding to another invited talk were carefully reviewed and selected from 29 submissions They deal with cutting edge research in all major disciplines of computer algebra in sciences such as physics chemistry life sciences and engineering Chapter Positive Solutions of Systems of Signed Parametric Polynomial Inequalities is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](https://link.springer.com)

*Approximate Commutative Algebra* Lorenzo Robbiano, John Abbott, 2009-09-18 Approximate Commutative Algebra is an emerging field of research which endeavours to bridge the gap between traditional exact Computational Commutative Algebra and approximate numerical computation The last 50 years have seen enormous progress in the realm of exact Computational Commutative Algebra and given the importance of polynomials in scientific modelling it is very natural to want to extend these ideas to handle approximate empirical data deriving from physical measurements of phenomena in the real world In this volume nine contributions from established researchers describe various approaches to tackling a variety of problems arising in Approximate Commutative Algebra *A Singular Introduction to Commutative Algebra* Gert-Martin Greuel, Gerhard Pfister, 2007-11-05 This substantially enlarged second edition aims to lead a further stage in the

computational revolution in commutative algebra This is the first handbook tutorial to extensively deal with SINGULAR Among the book s most distinctive features is a new completely unified treatment of the global and local theories Another feature of the book is its breadth of coverage of theoretical topics in the portions of commutative algebra closest to algebraic geometry with algorithmic treatments of almost every topic



## Reviewing **Solving Polynomial Equations Foundations Algorithms And Applications**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Solving Polynomial Equations Foundations Algorithms And Applications**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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