

Solving Polynomial Equations

$$x^3 + 3x^2 - 4x - 12 = 0$$

$$x^3 - 7x + 6 = 0$$

Solving Systems Of Polynomial Equations

Thomas Griffiths



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Solving Systems of Polynomial Equations Bernd Sturmfels, 2002 Bridging a number of mathematical disciplines and exposing many facets of systems of polynomial equations Bernd Sturmfels's study covers a wide spectrum of mathematical techniques and algorithms both symbolic and numerical

Solving Polynomial Systems Using Continuation for Engineering and Scientific Problems Alexander Morgan, 2009-01-01 This book introduces the numerical technique of polynomial continuation which is used to compute solutions to systems of polynomial equations Originally published in 1987 it remains a useful starting point for the reader interested in learning how to solve practical problems without advanced mathematics Solving Polynomial Systems Using Continuation for Engineering and Scientific Problems is easy to understand requiring only a knowledge of undergraduate level calculus and simple computer programming The book is also practical it includes descriptions of various industrial strength engineering applications and offers Fortran code for polynomial solvers on an associated Web page It provides a resource for high school and undergraduate mathematics projects Audience accessible to readers with limited mathematical backgrounds It is appropriate for undergraduate mechanical engineering courses in which robotics and mechanisms applications are studied

Solving systems of polynomial equations Bernd Sturmfels, 2002

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 1980s to the most recent research on positive dimensional sets

Computer Vision - ECCV 2008 David Forsyth, Philip Torr, Andrew Zisserman, 2008-10-07 The four volume set comprising LNCS volumes 5302 5303 5304 5305 constitutes the refereed proceedings of the 10th European Conference on Computer Vision ECCV 2008 held in Marseille France in October 2008 The 243 revised papers presented were carefully reviewed and selected from a total of 871 papers submitted The four books cover the entire range of current issues in computer vision The papers are organized in topical sections on recognition stereo people and face recognition object tracking matching learning and features MRFs segmentation computational photography and active reconstruction

Numerical Methods for Solving Systems of Polynomial Equations and Bernstein's Theorem Tobias Ansbak Louv, 2016

Polyhedral and Algebraic Methods in Computational Geometry Michael Joswig, Thorsten Theobald, 2013-01-04 Polyhedral and Algebraic Methods in Computational Geometry provides a thorough introduction into algorithmic geometry and its applications It presents its primary topics from the viewpoints of discrete convex and elementary algebraic geometry The first part of the book studies classical problems and techniques that refer to polyhedral structures The authors include a study on algorithms for computing convex hulls as well as the construction of Voronoi diagrams and Delone triangulations

The second part of the book develops the primary concepts of non linear computational algebraic geometry Here the book looks at Gr bner bases and solving systems of polynomial equations The theory is illustrated by applications in computer graphics curve reconstruction and robotics Throughout the book interconnections between computational geometry and other disciplines such as algebraic geometry optimization and numerical mathematics are established Polyhedral and Algebraic Methods in Computational Geometry is directed towards advanced undergraduates in mathematics and computer science as well as towards engineering students who are interested in the applications of computational geometry

Interactions of Classical and Numerical Algebraic Geometry Daniel James Bates,2009-09-16 This volume contains the proceedings of the conference on Interactions of Classical and Numerical Algebraic Geometry held May 22 24 2008 at the University of Notre Dame in honor of the achievements of Professor Andrew J Sommese While classical algebraic geometry has been studied for hundreds of years numerical algebraic geometry has only recently been developed Due in large part to the work of Andrew Sommese and his collaborators the intersection of these two fields is now ripe for rapid advancement The primary goal of both the conference and this volume is to foster the interaction between researchers interested in classical algebraic geometry and those interested in numerical methods The topics in this book include but are not limited to various new results in complex algebraic geometry a primer on Seshadri constants analyses and presentations of existing and novel numerical homotopy methods for solving polynomial systems a numerical method for computing the dimensions of the cohomology of twists of ideal sheaves and the application of algebraic methods in kinematics and phylogenetics

Essentials of Abstract Algebra Sachin Nambeesan,2025-02-20 Essentials of Abstract Algebra offers a deep exploration into the fundamental structures of algebraic systems Authored by esteemed mathematicians this comprehensive guide covers groups rings fields and vector spaces unraveling their intricate properties and interconnections We introduce groups exploring their diverse types from finite to infinite and abelian to non abelian with concrete examples and rigorous proofs Moving beyond groups we delve into rings explaining concepts like ideals homomorphisms and quotient rings The text highlights the relevance of ring theory in number theory algebraic geometry and coding theory We also navigate fields discussing field extensions Galois theory and algebraic closures and exploring connections between fields and polynomial equations Additionally we venture into vector spaces examining subspaces bases dimension and linear transformations Throughout the book we emphasize a rigorous mathematical foundation and intuitive understanding Concrete examples diagrams and exercises enrich the learning experience making abstract algebra accessible to students mathematicians and researchers Essentials of Abstract Algebra is a timeless resource for mastering the beauty and power of algebraic structures

Elimination Practice: Software Tools And Applications (With Cd-rom) Dongming Wang,2004-02-19 With a software library included this book provides an elementary introduction to polynomial elimination in practice The library Epsilon implemented in Maple and Java contains more than 70 well documented functions for symbolic

elimination and decomposition with polynomial systems and geometric reasoning The book presents the functionality implementation and performance of Epsilon and demonstrates the usefulness of the elimination tool by a number of selected applications together with many examples and illustrations The reader will find Epsilon an efficient tool applicable to a wide range of problems in science engineering and industry and this book an accessible exposition and a valuable reference for elimination theory methods and practice

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Polynomial Optimization, Moments, and Applications Michal Kočvara, Bernard Mourrain, Cordian Riener, 2023-12-27 Polynomial optimization is a fascinating field of study that has revolutionized the way we approach nonlinear problems described by polynomial constraints The applications of this field range from production planning

processes to transportation energy consumption and resource control This introductory book explores the latest research developments in polynomial optimization presenting the results of cutting edge interdisciplinary work conducted by the European network POEMA For the past four years experts from various fields including algebraists geometers computer scientists and industrial actors have collaborated in this network to create new methods that go beyond traditional paradigms of mathematical optimization By exploiting new advances in algebra and convex geometry these innovative approaches have resulted in significant scientific and technological advancements This book aims to make these exciting developments accessible to a wider audience by gathering high quality chapters on these hot topics Aimed at both aspiring and established researchers as well as industry professionals this book will be an invaluable resource for anyone interested in polynomial optimization and its potential for real world applications

Geometric Tools for Computer Graphics Philip Schneider, David H. Eberly, 2002-10-10 Do you spend too much time creating the building blocks of your graphics applications or finding and correcting errors Geometric Tools for Computer Graphics is an extensive conveniently organized collection of proven solutions to fundamental problems that you'd rather not solve over and over again including building primitives distance calculation approximation containment decomposition intersection determination separation and more If you have a mathematics degree this book will save you time and trouble If you don't it will help you achieve things you may feel are out of your reach Inside each problem is clearly stated and diagrammed and the fully detailed solutions are presented in easy to understand pseudocode You also get the mathematics and geometry background needed to make optimal use of the solutions as well as an abundance of reference material contained in a series of appendices Features Filled with robust thoroughly tested solutions that will save you time and help you avoid costly errors Covers problems relevant for both 2D and 3D graphics programming Presents each problem and solution in stand alone form allowing you the option of reading only those entries that matter to you Provides the math and geometry background you need to understand the solutions and put them to work Clearly diagrams each problem and presents solutions in easy to understand pseudocode Resources associated with the book are available at the companion Web site www.mkp.com/gtcg Filled with robust thoroughly tested solutions that will save you time and help you avoid costly errors Covers problems relevant for both 2D and 3D graphics programming Presents each problem and solution in stand alone form allowing you the option of reading only those entries that matter to you Provides the math and geometry background you need to understand the solutions and put them to work Clearly diagrams each problem and presents solutions in easy to understand pseudocode Resources associated with the book are available at the companion Web site www.mkp.com/gtcg

Handbook of Numerical Analysis Philippe G. Ciarlet, Jacques-Louis Lions, 1990

Computations in Algebraic Geometry with Macaulay 2 David Eisenbud, Daniel R. Grayson, Mike Stillman, Bernd Sturmfels, 2013-03-14 Systems of polynomial equations arise throughout mathematics science and engineering Algebraic geometry provides powerful theoretical techniques for studying the qualitative and quantitative features of their solution sets

Recently developed algorithms have made theoretical aspects of the subject accessible to a broad range of mathematicians and scientists. The algorithmic approach to the subject has two principal aims: developing new tools for research within mathematics and providing new tools for modeling and solving problems that arise in the sciences and engineering. A healthy synergy emerges as new theorems yield new algorithms and emerging applications lead to new theoretical questions. This book presents algorithmic tools for algebraic geometry and experimental applications of them. It also introduces a software system in which the tools have been implemented and with which the experiments can be carried out. Macaulay 2 is a computer algebra system devoted to supporting research in algebraic geometry, commutative algebra, and their applications. The reader of this book will encounter Macaulay 2 in the context of concrete applications and practical computations in algebraic geometry. The expositions of the algorithmic tools presented here are designed to serve as a useful guide for those wishing to bring such tools to bear on their own problems. A wide range of mathematical scientists should find these expositions valuable. This includes both the users of other programs similar to Macaulay 2, for example Singular and CoCoA, and those who are not interested in explicit machine computations at all.

Algorithms and Theory of Computation Handbook Mikhail J. Atallah, 1998-11-23. *Algorithms and Theory of Computation Handbook* is a comprehensive collection of algorithms and data structures that also covers many theoretical issues. It offers a balanced perspective that reflects the needs of practitioners, including emphasis on applications within discussions on theoretical issues. Chapters include information on finite precision issues as well as discussion of specific algorithms where algorithmic techniques are of special importance, including graph drawing, robotics, forming a VLSI chip, vision and image processing, data compression, and cryptography. The book also presents some advanced topics in combinatorial optimization and parallel distributed computing, applications areas where algorithms and data structuring techniques are of special importance: graph drawing, robot algorithms, VLSI layout, vision and image processing algorithms, scheduling, electronic cash, data compression, dynamic graph algorithms, on-line algorithms, multidimensional data structures, cryptography, advanced topics in combinatorial optimization, and parallel distributed computing.

Advances In Computational Mathematics: New Delhi, India - Proceedings Of The Conference H P Dikshit, Charles A Micchelli, 1994-05-18. Contents: Finite Elements for Kirchhoff and Mindlin-Reissner Plates; D Braess: A Multiscale Method for the Double Layer Potential Equation on a Polyhedron; W Dahmen et al: Shape Preserving GC2 Rational Cubic Splines; A Bhatt et al: Affine Operators and Frames of Multivariate Wavelets; C K Chui, X L Shi: Compressed Representations of Curves and Images Using a Multiresolution Box Spline Framework; H Diamond et al: Wavelet Transformations and Matrix Compression; S L Lee et al: Using the Refinement Equation for the Construction of Pre-Wavelets; VII Strömberg: Wavelets; C A Micchelli: An Extension of a Result of Rivlin on Walsh Equiconvergence; R Brück et al: Rational Complex Planar Splines; H P Dikshit et al: Constructive Aspects in Complex Analysis; D Gaier: Applications and Computation of Orthogonal Polynomials; W Gautschi: Approximation of Multivariate Functions; V Ya Lin, A Pinkus: Some Algorithms for Thin

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