

Götz Alefeld
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Siegfried Rump
Tetsuro Yamamoto (eds.)

**Symbolic Algebraic Methods
and Verification Methods**

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Symbolic Algebraic Methods And Verification Methods

Ensheng Dong



Symbolic Algebraic Methods And Verification Methods:

Symbolic Algebraic Methods and Verification Methods Götz Alefeld, Jiri Rohn, Siegfried Rump, Tetsuro Yamamoto, 2012-12-06 The usual implementation of real numbers as floating point numbers on existing computers has the well known disadvantage that most of the real numbers are not exactly representable in floating point Also the four basic arithmetic operations can usually not be performed exactly During the last years research in different areas has been intensified in order to overcome these problems LEDA Library by K Mehlhorn et al Exact arithmetic with real numbers by A Edalat et al Symbolic algebraic methods verification methods The latest development is the combination of symbolic algebraic methods and verification methods to so called hybrid methods This book contains a collection of worked out talks on these subjects given during a Dagstuhl seminar at the Forschungszentrum für Informatik Schlo Dagstuhl Germany presenting the state of the art [Symbolic-algebraic Methods and Verification Methods](#) Götz Alefeld, Jiri Rohn, Siegfried M. Rump, Tetsuro Yamamoto, 1999 [Using Algebraic Geometry](#) David A. Cox, John Little, Donal O'Shea, 2005-11-23 In recent years the discovery of new algorithms for dealing with polynomial equations coupled with their implementation on fast inexpensive computers has sparked a minor revolution in the study and practice of algebraic geometry These algorithmic methods have also given rise to some exciting new applications of algebraic geometry This book illustrates the many uses of algebraic geometry highlighting some of the more recent applications of Gröbner bases and resultants In order to do this the authors provide an introduction to some algebraic objects and techniques which are more advanced than one typically encounters in a first course but nonetheless of great utility The book is written for nonspecialists and for readers with a diverse range of backgrounds It assumes knowledge of the material covered in a standard undergraduate course in abstract algebra and it would help to have some previous exposure to Gröbner bases The book does not assume the reader is familiar with more advanced concepts such as modules For this new edition the authors added two new sections and a new chapter updated the references and made numerous minor improvements throughout the text **Computer Algebra in Scientific Computing** François Boulier, Matthew England, Timur M. Sadykov, Evgenii V. Vorozhtsov, 2020-10-17 This book constitutes the refereed proceedings of the 22nd International Workshop on Computer Algebra in Scientific Computing CASC 2020 held in Linz Austria in September 2020 The conference was held virtually due to the COVID 19 pandemic The 34 full papers presented together with 2 invited talks were carefully reviewed and selected from 41 submissions They deal with cutting edge research in all major disciplines of computer algebra The papers cover topics such as polynomial algebra symbolic and symbolic numerical computation applications of symbolic computation for investigating and solving ordinary differential equations applications of CAS in the investigation and solution of celestial mechanics problems and in mechanics physics and robotics *Inclusion Methods for Nonlinear Problems* Jürgen Herzberger, 2012-12-06 This workshop was organized with the support of GAMM the International Association of Applied Mathematics and Mechanics on the occasion of J Herzberger's

60th birthday GAMM is thankful to him for all the time and work he spent in the preparation and holding of the meeting. The talks presented during the workshop and the papers published in this volume are part of the field of Verification Numerics. The important subject is fostered by GAMM already since a number of years especially also by the GAMM Fachauschuß special interest group Rechnerarithmetik und Wissenschaftliches Rechnen. GiHz Alefeld Karlsruhe Dezember 2001. President of GAMM Preface. At the end of the year 2000 about 23 scientists from many countries gathered in the beautiful city of Munich on the occasion of the International GAMM Workshop on Inclusion Methods for Nonlinear Problems with Applications in Engineering Economics and Physics from December 15 to 18. The purpose of this meeting was to bring together representatives of research groups from Austria, Bulgaria, China, Croatia, Germany, Japan, Russia, Ukraine and Yugoslavia who in a wider sense work in the field of calculating numerical solutions with error bounds. Most of those participants have already known each other from earlier occasions or closely cooperated in the past. Representatives from three Academies of Sciences were among the speakers of this conference: from the Bulgarian Academy, the Russian Academy and the Ukrainian Academy of Sciences.

Computer Arithmetic and Validity Ulrich Kulisch, 2013-04-30. This is the revised and extended second edition of the successful basic book on computer arithmetic. It is consistent with the newest recent standard developments in the field. The book shows how the arithmetic and mathematical capability of the digital computer can be enhanced in a quite natural way. The work is motivated by the desire and the need to improve the accuracy of numerical computing and to control the quality of the computed results. Validity. The accuracy requirements for the elementary floating point operations are extended to the customary product spaces of computations including interval spaces. The mathematical properties of these models are extracted into an axiomatic approach which leads to a general theory of computer arithmetic. Detailed methods and circuits for the implementation of this advanced computer arithmetic on digital computers are developed in part two of the book. Part three then illustrates by a number of sample applications how this extended computer arithmetic can be used to compute highly accurate and mathematically verified results. The book can be used as a high level undergraduate textbook but also as reference work for research in computer arithmetic and applied mathematics.

Efficient Algorithms Susanne Albers, Helmut Alt, Stefan Näher, 2009-09-01. This Festschrift volume published in honor of Kurt Mehlhorn on the occasion of his 60th birthday contains 28 papers that demonstrate how the field of algorithmics has developed and matured in the decades since Mehlhorn's first book on the subject in 1977.

Interval Linear Programming and Extensions Milan Hladík, 2025-05-31. This book delves into the intricate world of interval programming offering a comprehensive exploration of mathematical programming problems characterized by interval data. Interval data often arising from uncertainties like measurement errors or estimations are also pivotal in analyzing stability sensitivity and managing numerical issues. At the heart of this book is the principle of interval analysis ensuring that all possible realizations of interval data are accounted for. Readers will uncover a wealth of knowledge as the author

meticulously examines how variations in input coefficients affect optimal solutions and values in linear programming The chapters are organized into three parts foundational concepts of interval analysis linear programming with interval data and advanced extensions into multiobjective and nonlinear problems This book invites readers to explore critical questions about stability duality and practical applications across diverse fields With contributions from eminent scholars it provides a unique blend of theoretical insights and practical case studies Designed for both researchers and students with a basic understanding of mathematics this book serves as an essential resource for anyone interested in mathematical programming Whether used as a monograph or a lecture textbook it offers clear explanations and comprehensive proofs to make complex concepts accessible Scholars in operations research applied mathematics and related disciplines will find this volume invaluable for advancing their understanding of interval programming

Symbolic Algebra: Or, The Algebra of Algebraic Numbers William Cain,1884 **Algorithms** ,2005 Mathematical Reviews ,2004 **Techniques for Program Verification** Greg Nelson,1980 **Topics in Numerical Analysis** G. Alefeld,Xiaojun Chen,2001-09-11 This collection of papers on numerical analysis with special emphasis on nonlinear problems covers a broad spectrum of fields Several papers are involved in applying numerical methods for proving the existence of solutions of nonlinear problems e g of boundary problems or of obstacle problems Naturally the solution of linear and nonlinear problems by iterative methods is the subject of a couple of papers Here topics like the fast verification of solutions of monotone matrix equations the convergence of linear asynchronous iteration with spectral radius of modulus one or aggregation and disaggregation methods for p cyclic Markov chains are treated On the other hand papers involved in optimization problems can be found Nearly all fields of modern numerical analysis are touched by at least one paper

The Fields and Methods of Knowledge Raymond Frank Piper,Paul William Ward,1929 **Scientiae Mathematicae Japonicae** ,2001
Bibliographic Index ,2004 **American Book Publishing Record** ,2001 **Journal of the American Romanian Academy of Arts and Sciences** ,2000 *Computing Tools for Scientific Problem Solving* Alfonso M Miola,Alfonso Miola,1990 **Fundamental Approaches to Software Engineering** ,1999

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