

Special Issue Reprint

Algebraic, Analytic, and Computational Number Theory and Its Applications

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Computational Algebraic Analysis

Wolfram Decker, Gerhard Pfister



Computational Algebraic Analysis:

Analysis of Dirac Systems and Computational Algebra Fabrizio Colombo, Irene Sabadini, Franciscus Sommen, Daniele C. Struppa, 2004-09-23 The main treatment is devoted to the analysis of systems of linear partial differential equations PDEs with constant coefficients focusing attention on null solutions of Dirac systems All the necessary classical material is initially presented Geared toward graduate students and researchers in hyper complex analysis Clifford analysis systems of PDEs with constant coefficients and mathematical physics

Algorithms in Computational Algebraic Analysis Anton Leykin, 2003 Foundations of Computational Mathematics Felipe Cucker, Michael Shub, 2012-12-06 This book contains a collection of articles corresponding to some of the talks delivered at the Foundations of Computational Mathematics conference held at IMPA in Rio de Janeiro in January 1997 Some of the others are published in the December 1996 issue of the Journal of Complexity Both of these publications were available and distributed at the meeting Even in this aspect we hope to have achieved a synthesis of the mathematics and computer science cultures as well as of the disciplines The reaction to the Park City meeting on Mathematics of Numerical Analysis Real Number Algorithms which was chaired by Steve Smale and had around 275 participants was very enthusiastic At the suggestion of Narendra Karmarkar a lunch time meeting of Felipe Cucker Arieh Iserles Narendra Karmarkar Jim Renegar Mike Shub and Steve Smale decided to try to hold a periodic meeting entitled Foundations of Computational Mathematics and to form an organization with the same name whose primary purpose will be to hold the meeting This is then the first edition of FoCM as such It has been organized around a small collection of workshops namely Systems of algebraic equations and computational algebraic geometry Homotopy methods and real machines Information based complexity Numerical linear algebra Approximation and PDEs Optimization Differential equations and dynamical systems Relations to computer science Vision and related computational tools There were also twelve plenary speakers

Computational Mathematics, Numerical Analysis and Applications Mariano Mateos, Pedro Alonso, 2017-08-03 The first part of this volume gathers the lecture notes of the courses of the XVII Escuela Hispano Francesa held in Gijón Spain in June 2016 Each chapter is devoted to an advanced topic and presents state of the art research in a didactic and self contained way Young researchers will find a complete guide to beginning advanced work in fields such as High Performance Computing Numerical Linear Algebra Optimal Control of Partial Differential Equations and Quantum Mechanics Simulation while experts in these areas will find a comprehensive reference guide including some previously unpublished results and teachers may find these chapters useful as textbooks in graduate courses The second part features the extended abstracts of selected research work presented by the students during the School It highlights new results and applications in Computational Algebra Fluid Mechanics Chemical Kinetics and Biomedicine among others offering interested researchers a convenient reference guide to these latest advances

A First Course in Computational Algebraic Geometry Wolfram Decker, Gerhard Pfister, 2013-02-07 A quick guide to computing in algebraic geometry with many explicit

computational examples introducing the computer algebra system Singular Computational Approach to Some Problems in Algebraic Analysis Alberto Damiano,2005 **The Center and Cyclicity Problems** Valery Romanovski,Douglas Shafer,2009-04-29 In the last three decades advances in methods for investigating polynomial ideals and their varieties have provided new possibilities for approaching two long standing problems in the theory of differential equations the Poincaré center problem and the cyclicity problem the problem of bifurcation of limit cycles from singular trajectories Using a computational algebra approach this work addresses the center and cyclicity problems as behaviors of dynamical systems and families of polynomial systems The text first lays the groundwork for computational algebra and gives the main properties of ideals in polynomial rings and their affine varieties this is followed by a discussion regarding the theory of normal forms and stability of differential equations The center and cyclicity problems are then explored in detail The book contains numerous examples pseudocode displays of all the computational algorithms historical notes nearly two hundred exercises and an extensive bibliography Completely self contained it is thus suitable mainly as a textbook for a graduate course in the subject but also as a reference for researchers B-Series John C. Butcher,2021-04-01 B series also known as Butcher series are an algebraic tool for analysing solutions to ordinary differential equations including approximate solutions Through the formulation and manipulation of these series properties of numerical methods can be assessed Runge Kutta methods in particular depend on B series for a clean and elegant approach to the derivation of high order and efficient methods However the utility of B series goes much further and opens a path to the design and construction of highly accurate and efficient multivalued methods This book offers a self contained introduction to B series by a pioneer of the subject After a preliminary chapter providing background on differential equations and numerical methods a broad exposition of graphs and trees is presented This is essential preparation for the third chapter in which the main ideas of B series are introduced and developed In chapter four algebraic aspects are further analysed in the context of integration methods a generalization of Runge Kutta methods to infinite index sets Chapter five on explicit and implicit Runge Kutta methods contrasts the B series and classical approaches Chapter six on multivalued methods gives a traditional review of linear multistep methods and expands this to general linear methods for which the B series approach is both natural and essential The final chapter introduces some aspects of geometric integration from a B series point of view Placing B series at the centre of its most important applications makes this book an invaluable resource for scientists engineers and mathematicians who depend on computational modelling not to mention computational scientists who carry out research on numerical methods in differential equations In addition to exercises with solutions and study notes a number of open ended projects are suggested This combination makes the book ideal as a textbook for specialised courses on numerical methods for differential equations as well as suitable for self study *Two Algebraic Byways from Differential Equations: Gröbner Bases and Quivers* Kenji Iohara,Philippe Malbos,Masa-Hiko Saito,Nobuki Takayama,2020-02-20 This edited volume presents a

fascinating collection of lecture notes focusing on differential equations from two viewpoints formal calculus through the theory of Gr bner bases and geometry via quiver theory Gr bner bases serve as effective models for computation in algebras of various types Although the theory of Gr bner bases was developed in the second half of the 20th century many works on computational methods in algebra were published well before the introduction of the modern algebraic language Since then new algorithms have been developed and the theory itself has greatly expanded In comparison diagrammatic methods in representation theory are relatively new with the quiver varieties only being introduced with big impact in the 1990s Divided into two parts the book first discusses the theory of Gr bner bases in their commutative and noncommutative contexts with a focus on algorithmic aspects and applications of Gr bner bases to analysis on systems of partial differential equations effective analysis on rings of differential operators and homological algebra It then introduces representations of quivers quiver varieties and their applications to the moduli spaces of meromorphic connections on the complex projective line While no particular reader background is assumed the book is intended for graduate students in mathematics engineering and related fields as well as researchers and scholars

Computational Excursions in Analysis and Number Theory Peter Borwein, 2012-12-06 This book is designed for a topics course in computational number theory It is based around a number of difficult old problems that live at the interface of analysis and number theory Some of these problems are the following The Integer Chebyshev Problem Find a nonzero polynomial of degree n with integer coefficients that has smallest possible supremum norm on the unit interval Littlewood's Problem Find a polynomial of degree n with coefficients in the set $\{-1, 1\}$ that has smallest possible supremum norm on the unit disk The Prouhet Tarry Escott Problem Find a polynomial with integer coefficients that is divisible by $z^n - 1$ and has smallest possible L^1 norm That L^1 is the sum of the absolute values of the coefficients is minimal Lehmer's Problem Show that any monic polynomial $p(z) = z^n + a_{n-1}z^{n-1} + \dots + a_0$ with integer coefficients that is irreducible and that is not a cyclotomic polynomial has Mahler measure at least 1.1762 All of the above problems are at least forty years old all are presumably very hard certainly none are completely solved and all lend themselves to extensive computational explorations The techniques for tackling these problems are various and include probabilistic methods combinatorial methods the circle method and Diophantine and analytic techniques Computationally the main tool is the LLL algorithm for finding small vectors in a lattice The book is intended as an introduction to a diverse collection of techniques

Applied and Computational Complex Analysis, Volume 1 Peter Henrici, 1988-02-23 Presents applications as well as the basic theory of analytic functions of one or several complex variables The first volume discusses applications and basic theory of conformal mapping and the solution of algebraic and transcendental equations Volume Two covers topics broadly connected with ordinary differential equations special functions integral transforms asymptotics and continued fractions Volume Three details discrete Fourier analysis Cauchy integrals construction of conformal maps univalent functions potential theory in the plane and polynomial expansions

Computational Algebraic and Analytic Geometry Mika Seppälä, Emil Volcheck, 2012

This volume contains the proceedings of three AMS Special Sessions on Computational Algebraic and Analytic Geometry for Low Dimensional Varieties held January 8 2007 in New Orleans LA January 6 2009 in Washington DC and January 6 2011 in New Orleans LA Algebraic analytic and geometric methods are used to study algebraic curves and Riemann surfaces from a variety of points of view The object of the study is the same The methods are different The fact that a multitude of methods stemming from very different mathematical cultures can be used to study the same objects makes this area both fascinating and challenging

Computational Matrix Analysis Alan J. Laub, 2012-05-10 This text provides an introduction to numerical linear algebra together with its application to solving problems arising in state space control and systems theory The book provides a number of elements designed to help the reader learn to use numerical linear algebra in day to day computing or research including a brief review of matrix analysis and an introduction to finite IEEE arithmetic alongside discussion of mathematical software topics In addition to the fundamental concepts the text covers statistical condition estimation and gives an overview of certain computational problems in control and systems theory Engineers and scientists will find this text valuable as a theoretical resource to complement their work in algorithms For graduate students beginning their study or advanced undergraduates this text is ideal as a one semester course in numerical linear algebra and is a natural follow on to the author's previous book *Matrix Analysis for Scientists and Engineers*

Computational Homology Tomasz Kaczynski, Konstantin Mischaikow, Marian Mrozek, 2004-01-09 Homology is a powerful tool used by mathematicians to study the properties of spaces and maps that are insensitive to small perturbations This book uses a computer to develop a combinatorial computational approach to the subject The core of the book deals with homology theory and its computation Following this is a section containing extensions to further developments in algebraic topology applications to computational dynamics and applications to image processing Included are exercises and software that can be used to compute homology groups and maps The book will appeal to researchers and graduate students in mathematics computer science engineering and nonlinear dynamics

Numerical Computation 1 Christoph W. Ueberhuber, 1997-02-27 This book deals with various aspects of scientific numerical computing No attempt was made to be complete or encyclopedic The successful solution of a numerical problem has many facets and consequently involves different fields of computer science Computer numerics as opposed to computer algebra is thus based on applied mathematics numerical analysis and numerical computation as well as on certain areas of computer science such as computer architecture and operating systems Applied Mathematics I I I Numerical Analysis Analysis Algebra I I Numerical Computation Symbolic Computation I Operating Systems Computer Hardware Each chapter begins with sample situations taken from specific fields of application Abstract and general formulations of mathematical problems are then presented Following this abstract level a general discussion about principles and methods for the numerical solution of mathematical problems is presented Relevant algorithms are developed and their efficiency and the accuracy of their results is assessed It is then explained as to how they can be obtained in the form of

numerical software The reader is presented with various ways of applying the general methods and principles to particular classes of problems and approaches to extracting practically useful solutions with appropriately chosen numerical software are developed Potential difficulties and obstacles are examined and ways of avoiding them are discussed The volume and diversity of all the available numerical software is tremendous

Numerical Analysis Walter Gautschi, 2011-12-06 Revised and updated this second edition of Walter Gautschi's successful *Numerical Analysis* explores computational methods for problems arising in the areas of classical analysis approximation theory and ordinary differential equations among others Topics included in the book are presented with a view toward stressing basic principles and maintaining simplicity and teachability as far as possible while subjects requiring a higher level of technicality are referenced in detailed bibliographic notes at the end of each chapter Readers are thus given the guidance and opportunity to pursue advanced modern topics in more depth Along with updated references new biographical notes and enhanced notational clarity this second edition includes the expansion of an already large collection of exercises and assignments both the kind that deal with theoretical and practical aspects of the subject and those requiring machine computation and the use of mathematical software Perhaps most notably the edition also comes with a complete solutions manual carefully developed and polished by the author which will serve as an exceptionally valuable resource for instructors

Computer-Aided Analysis of Difference Schemes for Partial Differential Equations Victor G. Ganzha, E. V. Vorozhtsov, 1996-04-12 Advances in computer technology have conveniently coincided with trends in numerical analysis toward increased complexity of computational algorithms based on finite difference methods It is no longer feasible to perform stability investigation of these methods manually and no longer necessary As this book shows modern computer algebra tools can be combined with methods from numerical analysis to generate programs that will do the job automatically Comprehensive, timely and accessible this is the definitive reference on the application of computerized symbolic manipulations for analyzing the stability of a wide range of difference schemes In particular it deals with those schemes that are used to solve complex physical problems in areas such as gas dynamics heat and mass transfer catastrophe theory elasticity shallow water theory and more Introducing many new applications methods and concepts *Computer Aided Analysis of Difference Schemes for Partial Differential Equations* Shows how computational algebra expedites the task of stability analysis whatever the approach to stability investigation Covers ten different approaches for each stability method Deals with the specific characteristics of each method and its application to problems commonly encountered by numerical modelers Describes all basic mathematical formulas that are necessary to implement each algorithm Provides each formula in several global algebraic symbolic languages such as MAPLE MATHEMATICA and REDUCE Includes numerous illustrations and thought provoking examples throughout the text For mathematicians physicists and engineers as well as for postgraduate students and for anyone involved with numeric solutions for real world physical problems this book provides a valuable resource a helpful guide and a head start on developments for the twenty first century

Applications of Computational Algebraic Geometry David A. Cox Dinesh N. Manocha Bernd Sturmfels, **Applications of Computational Algebraic Geometry** David A. Cox, Dinesh N. Manocha, 1998 This book introduces readers to key ideas and applications of computational algebraic geometry Beginning with the discovery of Gröbner bases and fueled by the advent of modern computers and the rediscovery of resultants computational algebraic geometry has grown rapidly in importance The fact that crunching equations is now as easy as crunching numbers has had a profound impact in recent years At the same time the mathematics used in computational algebraic geometry is unusually elegant and accessible which makes the subject easy to learn and easy to apply This book begins with an introduction to Gröbner bases and resultants then discusses some of the more recent methods for solving systems of polynomial equations A sampler of possible applications follows including computer aided geometric design complex information systems integer programming and algebraic coding theory The lectures in this book assume no previous acquaintance with the material **KWIC Index for Numerical Algebra** Alston Scott Householder, 1972

Reviewing **Computational Algebraic Analysis**: 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 "**Computational Algebraic Analysis**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in 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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