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# Algebraic and Computational Aspects of Real Tensor Ranks



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# Ebook Online Algebraic Computational Aspects Springerbriefs Statistics

**Bhubaneswar Mishra**



## **Ebook Online Algebraic Computational Aspects Springerbriefs Statistics:**

**Algorithmic and Experimental Methods in Algebra, Geometry, and Number Theory** Gebhard Böckle, Wolfram Decker, Gunter Malle, 2018-03-22 This book presents state of the art research and survey articles that highlight work done within the Priority Program SPP 1489 Algorithmic and Experimental Methods in Algebra Geometry and Number Theory which was established and generously supported by the German Research Foundation DFG from 2010 to 2016 The goal of the program was to substantially advance algorithmic and experimental methods in the aforementioned disciplines to combine the different methods where necessary and to apply them to central questions in theory and practice Of particular concern was the further development of freely available open source computer algebra systems and their interaction in order to create powerful new computational tools that transcend the boundaries of the individual disciplines involved The book covers a broad range of topics addressing the design and theoretical foundations implementation and the successful application of algebraic algorithms in order to solve mathematical research problems It offers a valuable resource for all researchers from graduate students through established experts who are interested in the computational aspects of algebra geometry and or number theory

**Computational Methods in Commutative Algebra and Algebraic Geometry** Wolmer Vasconcelos, 2004-05-18 This ACM volume deals with tackling problems that can be represented by data structures which are essentially matrices with polynomial entries mediated by the disciplines of commutative algebra and algebraic geometry The discoveries stem from an interdisciplinary branch of research which has been growing steadily over the past decade The author covers a wide range from showing how to obtain deep heuristics in a computation of a ring a module or a morphism to developing means of solving nonlinear systems of equations highlighting the use of advanced techniques to bring down the cost of computation Although intended for advanced students and researchers with interests both in algebra and computation many parts may be read by anyone with a basic abstract algebra course

**Computer Algebra and Polynomials** Jaime Gutierrez, Josef Schicho, Martin Weimann, 2015-01-20 Algebra and number theory have always been counted among the most beautiful mathematical areas with deep proofs and elegant results However for a long time they were not considered that important in view of the lack of real life applications This has dramatically changed nowadays we find applications of algebra and number theory frequently in our daily life This book focuses on the theory and algorithms for polynomials over various coefficient domains such as a finite field or ring The operations on polynomials in the focus are factorization composition and decomposition basis computation for modules etc Algorithms for such operations on polynomials have always been a central interest in computer algebra as it combines formal the variables and algebraic or numeric the coefficients aspects The papers presented were selected from the Workshop on Computer Algebra and Polynomials which was held in Linz at the Johann Radon Institute for Computational and Applied Mathematics RICAM during November 25 29 2013 at the occasion of the Special Semester on Applications of Algebra and Number Theory

**Computer**

**Algebra** R. Albrecht, B. Buchberger, G.E. Collins, R. Loos, 2012-12-06 this gap In sixteen survey articles the most important theoretical results algorithms and software methods of computer algebra are covered together with systematic references to literature In addition some new results are presented Thus the volume should be a valuable source for obtaining a first impression of computer algebra as well as for preparing a computer algebra course or for complementary reading The preparation of some papers contained in this volume has been supported by grants from the Austrian Fonds zur Forderung der wissenschaftlichen Forschung Project No 3877 the Austrian Ministry of Science and Research Department 12 Dr S Hollinger the United States National Science Foundation Grant MCS 8009357 and the Deutsche Forschungsgemeinschaft Lo 23 1 2 The work on the volume was greatly facilitated by the opportunity for the editors to stay as visitors at the Department of Computer and Information Sciences University of Delaware at the General Electric Company Research and Development Center Schenectady N Y and at the Mathematical Sciences Department Rensselaer Polytechnic Institute Troy N Y respectively Our thanks go to all these institutions The patient and experienced guidance and collaboration of the Springer Verlag Wien during all the stages of production are warmly appreciated The editors of the Cooperative editor of Supplementum Computing B Buchberger R Albrecht G Collins R Loos Contents Loos R Introduction 1 Buchberger B Loos R Algebraic Simplification 11 Neubiiser J Computing with Groups and Their Character Tables 45 Norman A C Integration in Finite Terms Computer Algebra, 1997 Computer Algebra James Harold Davenport, Y. Siret, E. Tournier, 1993

**Elements of Computer Algebra with Applications** Alkiviadis G. Akritas, 1989 **Computer Algebra** J. Calmet, 1982-10-08 **Computational Mathematics and Applications** Dia Zeidan, Seshadev Padhi, Aliaa Burqan, Peer Ueberholz, 2021-11-24 This book is a collection of invited and reviewed chapters on state of the art developments in interdisciplinary mathematics The book discusses recent developments in the fields of theoretical and applied mathematics covering areas of interest to mathematicians scientists engineers industrialists researchers faculty and students Readers will be exposed to topics chosen from a wide range of areas including differential equations integral reforms operational calculus numerical analysis fluid mechanics and computer science The aim of the book is to provide brief and reliably expressed research topics that will enable those new or not aware of mathematical sciences in this part of the world While the book has not been precisely planned to address any branch of mathematics it presents contributions of the relevant topics to do so The topics chosen for the book are those that we have found of significant interest to many researchers in the world These also are topics that are applicable in many fields of computational and applied mathematics This book constitutes the first attempt in Jordanian literature to scientifically consider the extensive need of research development at the national and international levels with which mathematics deals The book grew not only from the international collaboration between the authors but rather from the long need for a research based book from different parts of the world for researchers and professionals working in computational and applied mathematics This is the modified version of the back cover content on the print book

**na** Eduardo Bayro-Corrochano, Gerik Scheuermann, 2010-11-20 Geometric algebra provides a rich and general mathematical framework for the development of solutions concepts and computer algorithms without losing geometric insight into the problem in question Many current mathematical subjects can be treated in an unified manner without abandoning the mathematical system of geometric algebra such as multilinear algebra projective and affine geometry calculus on manifolds Riemann geometry the representation of Lie algebras and Lie groups using bivector algebras and conformal geometry Geometric Algebra Computing in Engineering and Computer Science presents contributions from an international selection of experts in the field This useful text reference offers new insights and solutions for the development of theorems algorithms and advanced methods for real time applications across a range of disciplines The book also provides an introduction to advanced screw theory and conformal geometry Written in an accessible style the discussion of all applications is enhanced by the inclusion of numerous examples figures and experimental analysis Topics and features Provides a thorough discussion of several tasks for image processing pattern recognition computer vision robotics and computer graphics using the geometric algebra framework Introduces nonspecialists to screw theory in the geometric algebra framework offering a tutorial on conformal geometric algebra and an overview of recent applications of geometric algebra Explores new developments in the domain of Clifford Fourier Transforms and Clifford Wavelet Transform including novel applications of Clifford Fourier transforms for 3D visualization and colour image spectral analysis Presents a detailed study of fluid flow problems with quaternionic analysis Examines new algorithms for geometric neural computing and cognitive systems Analyzes computer software packages for extensive calculations in geometric algebra investigating the algorithmic complexity of key geometric operations and how the program code can be optimized for real time computations The book is an essential resource for computer scientists applied physicists AI researchers and mechanical and electrical engineers It will also be of value to graduate students and researchers interested in a modern language for geometric computing Prof Dr Eng Eduardo Bayro Corrochano is a Full Professor of Geometric Computing at Cinvestav Mexico He is the author of the Springer titles Geometric Computing for Perception Action Systems Handbook of Geometric Computing and Geometric Computing for Wavelet Transforms Robot Vision Learning Control and Action Prof Dr Gerik Scheuermann is a Full Professor at the University of Leipzig Germany He is the author of the Springer title Topology Based Methods in Visualization

II *Special Issue*, 2010 *Algebra for Applications* Arkadii Slinko, 2020 Modern societies are awash with data that needs to be manipulated in many different ways encrypted compressed shared between users in a prescribed manner protected from unauthorised access and transmitted over unreliable channels All of these operations are based on algebra and number theory and can only be properly understood with a good knowledge of these fields This textbook provides the mathematical tools and applies them to study key aspects of data transmission such as encryption and compression Designed for an undergraduate lecture course this textbook provides all of the background in arithmetic polynomials groups fields and elliptic

curves that is required to understand real life applications such as cryptography secret sharing error correcting fingerprinting and compression of information It explains in detail how these applications really work The book uses the free GAP computational package allowing the reader to develop intuition about computationally hard problems and giving insights into how computational complexity can be used to protect the integrity of data The first undergraduate textbook to cover such a wide range of applications including some recent developments this second edition has been thoroughly revised with the addition of new topics and exercises Based on a one semester lecture course given to third year undergraduates it is primarily intended for use as a textbook while numerous worked examples and solved exercises also make it suitable for self study

*Handbook of Mathematics and Computational Science* John Harris, 1998      **Algebra for Computer Science** Lars Gårding, Torbjörn Tambour, 1988      Fundamentals of Algebraic Specification 1 Hartmut Ehrig, Bernd Mahr, 2011-12-10

The aim of this book is to present fundamentals of algebraic specifications with respect to the following three aspects fundamentals in the sense of a carefully motivated introduction to algebraic specifications which is easy to understand for computer scientists and mathematicians fundamentals in the sense of mathematical theories which are the basis for precise definitions constructions results and correctness proofs and fundamentals in the sense of concepts which are introduced on a conceptual level and formalized in mathematical terms The book is equally suitable as a text book for graduate courses and as a reference for researchers and system developers

*Algorithmic Algebra* Bhuvaneshwar Mishra, 1993-09-01      *Computer Algebra in Scientific Computing* François Boulrier, Matthew England, Timur M. Sadykov, Evgenii V. Vorozhtsov, 2021-08-17 This book constitutes the proceedings of the 23rd International Workshop on Computer Algebra in Scientific Computing CASC 2021 held in Sochi Russia in September 2021 The 24 full papers presented together with 1 invited talk were carefully reviewed and selected from 40 submissions The papers cover theoretical computer algebra and its applications in scientific computing

Mathematics for Computer Algebra Maurice Mignotte, 2011-10-14 This book corresponds to a mathematical course given in 1986-87 at the University Louis Pasteur Strasbourg This work is primarily intended for graduate students The following are necessary prerequisites a few standard definitions in set theory the definition of rational integers some elementary facts in Combinatorics maybe only Newton's binomial formula some theorems of Analysis at the level of high schools and some elementary Algebra basic results about groups rings fields and linear algebra An important place is given to exercises These exercises are only rarely direct applications of the course More often they constitute complements to the text Mostly hints or references are given so that the reader should be able to find solutions Chapters one and two deal with elementary results of Number Theory for example the euclidean algorithm the Chinese remainder theorem and Fermat's little theorem These results are useful by themselves but they also constitute a concrete introduction to some notions in abstract algebra for example euclidean rings principal rings Algorithms are given for arithmetical operations with long integers The rest of the book chapters 3 through 7 deals with polynomials We give general results on polynomials over

arbitrary rings Then polynomials with complex coefficients are studied in chapter 4 including many estimates on the complex roots of polynomials Some of these estimates are very useful in the subsequent chapters

**Computer Algebra in Scientific Computing** François Boulrier, Matthew England, Timur M. Sadykov, Evgenii V. Vorozhtsov, 2021 This book constitutes the proceedings of the 23rd International Workshop on Computer Algebra in Scientific Computing CASC 2021 held in Sochi Russia in September 2021 The 24 full papers presented together with 1 invited talk were carefully reviewed and selected from 40 submissions The papers cover theoretical computer algebra and its applications in scientific computing

Algorithms in Real Algebraic Geometry Saugata Basu, Richard Pollack, Marie-Françoise Roy, 2003 The algorithmic problems of real algebraic geometry such as real root counting deciding the existence of solutions of systems of polynomial equations and inequalities or deciding whether two points belong in the same connected component of a semi algebraic set occur in many contexts In this first ever graduate textbook on the algorithmic aspects of real algebraic geometry the main ideas and techniques presented form a coherent and rich body of knowledge linked to many areas of mathematics and computing Mathematicians already aware of real algebraic geometry will find relevant information about the algorithmic aspects and researchers in computer science and engineering will find the required mathematical background Being self contained the book is accessible to graduate students and even for invaluable parts of it to undergraduate students

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