

TEXTS AND MONOGRAPHS IN COMPUTER SCIENCE

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# **ALGORITHMIC ALGEBRA**

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**Bhubaneswar Mishra**



Springer-Verlag

# Algorithmic Algebra Monographs In Computer Science

**Hirokazu Anai, Katsuhisa  
Horimoto, Temur Kutsia**

## **Algorithmic Algebra Monographs In Computer Science:**

**Algorithmic Algebra** Bhubaneswar Mishra,2012-12-06 Algorithmic Algebra studies some of the main algorithmic tools of computer algebra covering such topics as Gr bner bases characteristic sets resultants and semialgebraic sets The main purpose of the book is to acquaint advanced undergraduate and graduate students in computer science engineering and mathematics with the algorithmic ideas in computer algebra so that they could do research in computational algebra or understand the algorithms underlying many popular symbolic computational systems Mathematica Maple or Axiom for instance Also researchers in robotics solid modeling computational geometry and automated theorem proving community may find it useful as symbolic algebraic techniques have begun to play an important role in these areas The book while being self contained is written at an advanced level and deals with the subject at an appropriate depth The book is accessible to computer science students with no previous algebraic training Some mathematical readers on the other hand may find it interesting to see how algorithmic constructions have been used to provide fresh proofs for some classical theorems The book also contains a large number of exercises with solutions to selected exercises thus making it ideal as a textbook or for self study

**Algorithms in Invariant Theory** Bernd Sturmfels,2008-06-17 J Kung and G C Rota in their 1984 paper write Like the Arabian phoenix rising out of its ashes the theory of invariants pronounced dead at the turn of the century is once again at the forefront of mathematics The book of Sturmfels is both an easy to read textbook for invariant theory and a challenging research monograph that introduces a new approach to the algorithmic side of invariant theory The Groebner bases method is the main tool by which the central problems in invariant theory become amenable to algorithmic solutions Students will find the book an easy introduction to this classical and new area of mathematics Researchers in mathematics symbolic computation and computer science will get access to a wealth of research ideas hints for applications outlines and details of algorithms worked out examples and research problems

**Algorithmic Algebra and Number Theory** B.Heinrich Matzat,Gert-Martin Greuel,1999 This book contains 22 lectures presented at the final conference of the German research program Algorithmic Number Theory and Algebra 1991 1997 sponsored by the Deutsche Forschungsgemeinschaft The purpose of this research program and the meeting was to bring together developers of computer algebra software and researchers using computational methods to gain insight into experimental problems and theoretical questions in algebra and number theory The book gives an overview on algorithmic methods and results obtained during this period mainly in algebraic number theory commutative algebra and algebraic geometry and group and representation theory Some of the articles illustrate the current state of the computer algebra systems developed with support from the research program for example KANT and LiDIA for algebraic number theory SINGULAR REDLOG and INVARIANT for commutative algebra and invariant theory respectively and GAP SYSPHOS and CHEVIE for group and representation theory

**Polynomial Algorithms in Computer Algebra** Franz Winkler,2012-12-06 For several years now I have been teaching courses in computer

algebra at the Universitat Linz the University of Delaware and the Universidad de Alcala de Henares In the summers of 1990 and 1992 I have organized and taught summer schools in computer algebra at the Universitat Linz Gradually a set of course notes has emerged from these activities People have asked me for copies of the course notes and different versions of them have been circulating for a few years Finally I decided that I should really take the time to write the material up in a coherent way and make a book out of it Here now is the result of this work Over the years many students have been helpful in improving the quality of the notes and also several colleagues at Linz and elsewhere have contributed to it I want to thank them all for their effort in particular I want to thank B Buchberger who taught me the theory of Gröbner bases nearly two decades ago B F Caviness and B D Saunders who first stimulated my interest in various problems in computer algebra G E Collins who showed me how to compute in algebraic domains and J R Sendra with whom I started to apply computer algebra methods to problems in algebraic geometry Several colleagues have suggested improvements in earlier versions of this book However I want to make it clear that I am responsible for all remaining mistakes

### **Algorithm Engineering** Matthias

Müller-Hannemann, Stefan Schirra, 2010-07-30 Algorithms are essential building blocks of computer applications However advancements in computer hardware which render traditional computer models more and more unrealistic and an ever increasing demand for efficient solution to actual real world problems have led to a rising gap between classical algorithm theory and algorithmics in practice The emerging discipline of Algorithm Engineering aims at bridging this gap Driven by concrete applications Algorithm Engineering complements theory by the benefits of experimentation and puts equal emphasis on all aspects arising during a cyclic solution process ranging from realistic modeling design analysis robust and efficient implementations to careful experiments This tutorial outcome of a GI Dagstuhl Seminar held in Dagstuhl Castle in September 2006 covers the essential aspects of this process in ten chapters on basic ideas modeling and design issues analysis of algorithms realistic computer models implementation aspects and algorithmic software libraries selected case studies as well as challenges in Algorithm Engineering Both researchers and practitioners in the field will find it useful as a state of the art survey

### **Algebraic and Symbolic Computation Methods in Dynamical Systems** Alban Quadrat, Eva

Zerz, 2020-05-30 This book aims at reviewing recent progress in the direction of algebraic and symbolic computation methods for functional systems e.g. ODE systems, differential time delay equations, difference equations and integro-differential equations. In the nineties modern algebraic theories were introduced in mathematical systems theory and in control theory. Combined with real algebraic geometry which was previously introduced in control theory the past years have seen a flourishing development of algebraic methods in control theory. One of the strengths of algebraic methods lies in their close connections to computations. The use of the above mentioned algebraic theories in control theory has been an important source of motivation to develop effective versions of these theories when possible. With the development of computer algebra and computer algebra systems symbolic methods for control theory have been developed over the past years. The goal of this

book is to propose a partial state of the art in this direction To make recent results more easily accessible to a large audience the chapters include materials which survey the main mathematical methods and results and which are illustrated with explicit examples **Parallel Symbolic Computation Pasco '94 - Proceedings Of The First International Symposium**

Hoon Hong,1994-09-17 These proceedings are devoted to communicating significant developments in all areas pertinent to Parallel Symbolic Computation The scope includes algorithms languages software systems and application in any area of parallel symbolic computation where parallelism is interpreted broadly to include concurrent distributive cooperative schemes and so forth *Computer Algebra Methods for Equivariant Dynamical Systems* Karin Gatermann,2000-03-27 This book starts with an overview of the research of Gr bner bases which have many applications in various areas of mathematics since they are a general tool for the investigation of polynomial systems The next chapter describes algorithms in invariant theory including many examples and time tables These techniques are applied in the chapters on symmetric bifurcation theory and equivariant dynamics This combination of different areas of mathematics will be interesting to researchers in computational algebra and or dynamics **Real Algebraic Geometry and Optimization** Thorsten Theobald,2024-04-17

This book provides a comprehensive and user friendly exploration of the tremendous recent developments that reveal the connections between real algebraic geometry and optimization two subjects that were usually taught separately until the beginning of the 21st century Real algebraic geometry studies the solutions of polynomial equations and polynomial inequalities over the real numbers Real algebraic problems arise in many applications including science and engineering computer vision robotics and game theory Optimization is concerned with minimizing or maximizing a given objective function over a feasible set Presenting key ideas from classical and modern concepts in real algebraic geometry this book develops related convex optimization techniques for polynomial optimization The connection to optimization invites a computational view on real algebraic geometry and opens doors to applications Intended as an introduction for students of mathematics or related fields at an advanced undergraduate or graduate level this book serves as a valuable resource for researchers and practitioners Each chapter is complemented by a collection of beneficial exercises notes on references and further reading As a prerequisite only some undergraduate algebra is required [Symbolic and Quantitative Approaches to Reasoning with Uncertainty](#) Jiřina Vejnarová,Nic Wilson,2021-09-21

This book constitutes the refereed proceedings of the 16th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty ECSQARU 2021 held in Prague Czech Republic in September 2021 The 48 full papers presented in this volume were carefully reviewed and selected from 63 submissions The papers are organized in topical sections about argumentation and analogical reasoning Bayesian networks and graphical models belief functions imprecise probability inconsistency handling and preferences possibility theory and fuzzy approaches and probability logic **Algorithmic Language and Program Development** Friedrich L. Bauer,H. Wössner,1982-10 The author s primary objective in this book is to discuss those aspects of bifurcation theory which

are particularly meaningful to differential equations To accomplish this objective and to make the book accessible to a wider audience much of the relevant background material from nonlinear functional analysis and the qualitative theory of differential equations is presented in detail Two distinct aspects of bifurcation theory are discussed static and dynamic Static bifurcation theory is concerned with the changes that occur in the structure of the set of zeros of a function as parameters in the function are varied Dynamic bifurcation theory is concerned with the changes that occur in the structure of the limit sets of solutions of differential equations as parameters in the vector field are varied This second printing contains extensive corrections and revisions throughout the book [Algebraic Biology](#) Hirokazu Anai,Katsuhisa Horimoto,Temur Kutsia,2007-08-13

This volume constitutes the refereed proceedings of the Second International Conference on Algebraic Biology The conference served as an interdisciplinary forum for the presentation of research on all aspects of the application of symbolic computation in biology including computer algebra computational logic and related methods Papers also examine solutions to problems in biology using symbolic methods

### **Algorithmic Combinatorics: Enumerative Combinatorics,**

**Special Functions and Computer Algebra** Veronika Pillwein,Carsten Schneider,2020-09-28 The book is centered around the research areas of combinatorics special functions and computer algebra What these research fields share is that many of their outstanding results do not only have applications in Mathematics but also other disciplines such as computer science physics chemistry etc A particular charm of these areas is how they interact and influence one another For instance combinatorial or special functions techniques have motivated the development of new symbolic algorithms In particular first proofs of challenging problems in combinatorics and special functions were derived by making essential use of computer algebra This book addresses these interdisciplinary aspects Algorithmic aspects are emphasized and the corresponding software packages for concrete problem solving are introduced Readers will range from graduate students researchers to practitioners who are interested in solving concrete problems within mathematics and other research disciplines

*Computer Mathematics* Xiao-Shan Gao,Dongming Wang,2000 This volume contains selected papers presented at the Fourth Asian Symposium on Computer Mathematics There are 39 peer reviewed contributions together with full papers and extended abstracts by the four invited speakers G H Gonnet D Lazard W McCune and W T Wu and these cover some of the most significant advances in computer mathematics including algebraic symbolic numeric and geometric computation automated mathematical reasoning mathematical software and computer aided geometric design

### **Computer Algebra**

Wolfram Koepf,2021 This textbook offers an algorithmic introduction to the field of computer algebra A leading expert in the field the author guides readers through numerous hands on tutorials designed to build practical skills and algorithmic thinking This implementation oriented approach equips readers with versatile tools that can be used to enhance studies in mathematical theory applications or teaching Presented using Mathematica code the book is fully supported by downloadable sessions in Mathematica Maple and Maxima Opening with an introduction to computer algebra systems and the basics of

programming mathematical algorithms the book goes on to explore integer arithmetic A chapter on modular arithmetic completes the number theoretic foundations which are then applied to coding theory and cryptography From here the focus shifts to polynomial arithmetic and algebraic numbers with modern algorithms allowing the efficient factorization of polynomials The final chapters offer extensions into more advanced topics simplification and normal forms power series summation formulas and integration Computer Algebra is an indispensable resource for mathematics and computer science students new to the field Numerous examples illustrate algorithms and their implementation throughout with online support materials to encourage hands on exploration Prerequisites are minimal with only a knowledge of calculus and linear algebra assumed In addition to classroom use the elementary approach and detailed index make this book an ideal reference for algorithms in computer algebra

Universal Algebra for Computer Scientists Wolfgang Wechler,2012-12-06 A new model theoretic approach to universal algebra is offered in this book Written for computer scientists it presents a systematic development of the methods and results of universal algebra that are useful in a variety of applications in computer science The notation is simple and the concepts are clearly presented The book concerns the algebraic characterization of axiomatic classes of algebras equational implicational and universal Horn classes by closure operators generalizing the famous Birkhoff Variety Theorem and the algebraic characterization of the related theories The book also presents a thorough study of term rewriting systems Besides basic notions the Knuth Bendix completion procedure and termination proof methods are considered A third main topic is that of fixpoint techniques and complete ordered algebras Algebraic specifications of abstract data types and algebraic semantics of recursive program schemes are treated as applications The book is self contained and suitable both as a textbook for graduate courses and as a reference for researchers

**Whitaker's Books in Print** ,1998 A Computational Theory of Laurent Polynomial Rings and Multidimensional FIR Systems Hyung-Ju Park,1995

**Fundamental Problems of Algorithmic Algebra** Chee-Keng Yap,2000 Popular computer algebra systems such as Maple Macsyma Mathematica and REDUCE are now basic tools on most computers Efficient algorithms for various algebraic operations underlie all these systems Computer algebra or algorithmic algebra studies these algorithms and their properties and represents a rich intersection of theoretical computer science with classical mathematics Fundamental Problems of Algorithmic Algebra provides a systematic and focused treatment of a collection of core problemsthe computational equivalents of the classical Fundamental Problem of Algebra and its derivatives Topics covered include the GCD subresultants modular techniques the fundamental theorem of algebra roots of polynomials Sturm theory Gaussian lattice reduction lattices and polynomial factorization linear systems elimination theory Grobner bases and more Features Presents algorithmic ideas in pseudo code based on mathematical concepts and can be used with any computer mathematics system Emphasizes the algorithmic aspects of problems without sacrificing mathematical rigor Aims to be self contained in its mathematical development Ideal for a first course in algorithmic or computer algebra for advanced undergraduates or

beginning graduate students

**Books in Print**, 1994

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