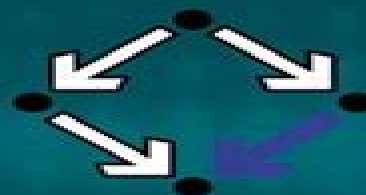


Texts & Monographs in Symbolic Computation

Bernd Sturmfels

Algorithms in Invariant Theory

2nd Edition



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Algorithms In Invariant Theory Texts Monographs In Symbolic Computation

Gert-Martin Greuel, Gerhard Pfister



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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

Modular Invariant Theory H.E.A. Eddy Campbell, David L. Wehlau, 2011-01-12 This book covers the modular invariant theory of finite groups the case when the characteristic of the field divides the order of the group a theory that is more complicated than the study of the classical non modular case Largely self contained the book develops the theory from its origins up to modern results It explores many examples illustrating the theory and its contrast with the better understood non modular setting It details techniques for the computation of invariants for many modular representations of finite groups especially the case of the cyclic group of prime order It includes detailed examples of many topics as well as a quick survey of the elements of algebraic geometry and commutative algebra as they apply to invariant theory The book is aimed at both graduate students and researchers an introduction to many important topics in modern algebra within a concrete setting for the former an exploration of a fascinating subfield of algebraic geometry for the latter

Algorithmic Number Theory Florian Hess, Sebastian Pauli, Michael Pohst, 2006-10-05 This book constitutes the refereed proceedings of the 7th International Algorithmic Number Theory Symposium ANTS 2006 held in Berlin July 2006 The book presents 37 revised full papers together with 4 invited papers selected for inclusion The papers are organized in topical sections on algebraic number theory analytic and elementary number theory lattices curves and varieties over fields of characteristic zero curves over finite fields and applications and discrete logarithms

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

Advances in the Design of Symbolic Computation Systems Alfonso Miola, Marco Temperini, 2012-12-06 New methodological aspects related to design and implementation of symbolic computation systems are considered in this volume aiming at integrating such aspects into a homogeneous software environment for scientific computation The proposed methodology is based on a combination of different techniques algebraic specification through modular approach and completion algorithms approximated and exact algebraic computing methods object oriented programming paradigm automated theorem proving through methods la Hilbert and methods of natural deduction In particular the proposed treatment of mathematical objects via techniques for method abstraction structures classification and exact representation the programming methodology which supports the design and implementation issues and reasoning capabilities supported by the whole framework are described

A Singular Introduction to Commutative Algebra Gert-Martin Greuel, Gerhard Pfister, 2012-12-06 In theory there is no difference between theory and practice In practice there is Yogi Berra A SINGULAR Introduction to Commutative Algebra offers a rigorous introduction to commutative algebra and at the same time provides algorithms and computational practice In this book we do not separate the theoretical and the computational part Coincidentally as new concepts are introduced it is consequently shown by means of concrete examples and general procedures how these concepts are handled by a computer We believe that this combination of theory and practice will provide not only a fast way to enter a rather abstract field but also a better understanding of the theory showing concurrently how the theory can be applied We exemplify the computational part by using the computer algebra system SINGULAR a system for polynomial computations which was developed in order to support mathematical research in commutative algebra algebraic geometry and singularity theory As the restriction to a specific system is necessary for such an exposition the book should be useful also for users of other systems such as Macaulay2 and CoCoA with similar goals Indeed once the algorithms and the method of their application in one system is known it is usually not difficult to transfer them to another system

Methods In Equivariant Bifurcations And Dynamical Systems Pascal Chossat, Reiner Lauterbach, 2000-02-28 This invaluable book presents a comprehensive introduction to bifurcation theory in the presence of symmetry an applied mathematical topic which has developed considerably over the past twenty years and has been very successful in analysing and predicting pattern formation and other critical phenomena in most areas of science where nonlinear models are involved like fluid flow instabilities chemical waves elasticity and population dynamics The book has two aims One is to expound the mathematical methods of equivariant bifurcation theory Beyond the classical bifurcation tools

such as center manifold and normal form reductions the presence of symmetry requires the introduction of the algebraic and geometric formalism of Lie group theory and transformation group methods For the first time all these methods in equivariant bifurcations are presented in a coherent and self consistent way in a book The other aim is to present the most recent ideas and results in this theory in relation to applications This includes bifurcations of relative equilibria and relative periodic orbits for compact and noncompact group actions heteroclinic cycles and forced symmetry breaking perturbations Although not all recent contributions could be included and a choice had to be made a rather complete description of these new developments is provided At the end of every chapter exercises are offered to the reader

Computational Methods for Algebraic Spline Surfaces Tor Dokken, Bert Jüttler, 2006-05-24 This volume contains revised papers that were presented at the international workshop entitled Computational Methods for Algebraic Spline Surfaces COMPASS which was held from September 29 to October 3 2003 at Schlo Weinberg Kefermarkt Austria The workshop was mainly devoted to approximate algebraic geometry and its applications The organizers wanted to emphasize the novel idea of approximate implicitization that has strengthened the existing link between CAD CAGD Computer Aided Geometric Design and classical algebraic geometry The existing methods for exact implicitization i.e. for conversion from the parametric to an implicit representation of a curve or surface require exact arithmetic and are too slow and too expensive for industrial use Thus the duality of an implicit representation and a parametric representation is only used for low degree algebraic surfaces such as planes spheres cylinders cones and toroidal surfaces On the other hand this duality is a very useful tool for developing efficient algorithms Approximate implicitization makes this duality available for general curves and surfaces The traditional exact implicitization of parametric surfaces produce global representations which are exact everywhere The surface patches used in CAD however are always defined within a small box only they are obtained for a bounded parameter domain typically a rectangle or in the case of trimmed surface patches a subset of a rectangle Consequently a globally exact representation is not really needed in practice

Lectures on Bifurcations, Dynamics and Symmetry Michael J. Field, 2020-02-17 This book is an expanded version of a Master Class on the symmetric bifurcation theory of differential equations given by the author at the University of Twente in 1995 The notes cover a wide range of recent results in the subject and focus on the dynamics that can appear in the generic bifurcation theory of symmetric differential equations This text covers a wide range of current results in the subject of bifurcations dynamics and symmetry The style and format of the original lectures has largely been maintained and the notes include over 70 exercises

Applied Algebra, Algebraic Algorithms and Error-Correcting Codes Marc Fossorier, Hideki Imai, Shu Lin, Alain Poli, 2003-07-31 This book constitutes the refereed proceedings of the 19th International Symposium on Applied Algebra Algebraic Algorithms and Error Correcting Codes AAECC 13 held in Honolulu Hawaii USA in November 1999 The 42 revised full papers presented together with six invited survey papers were carefully reviewed and selected from a total of 86 submissions The papers are organized in sections on codes and iterative decoding arithmetic

graphs and matrices block codes rings and fields decoding methods code construction algebraic curves cryptography codes and decoding convolutional codes designs decoding of block codes modulation and codes Gr bner bases and AG codes and polynomials

Computational Commutative Algebra 2 Martin Kreuzer, Lorenzo Robbiano, 2005-11-04 Hofstadter's Law It always takes longer than you think it will take even if you take into account Hofstadter's Law Douglas R Hofstadter Dear Reader why did we begin the foreword of this second volume with the same quote as the first There we wrote that it took three years of intense work just to fill three centimeters of your bookshelf The completion of this volume took four years and it is about four centimeters thick Thus we have a confirmed invariant which governs our writing our velocity is one centimeter per year after all effects due to Hofstadter's Law have been taken into account When we started this project in the last millennium we planned a book for learning teaching reading and most of all enjoying the topic at hand Surely there is no law which says that a mathematical book has to be dull boring dry or tedious But how do you make it enjoyable Our approach has been to fill it with amusing quotes varied jokes funny word games flowery metaphors and occasional literary efforts There are two possible drawbacks of this method Firstly not everyone has the same sense of humour and not every metaphor works as intended For instance it is easy to joke about certain politicians but what happens if they read this book And when we wrote of a small boat sailing slowly into the Brazilian sunset it was pointed out to us that this entails a geographical problem Secondly it is very difficult to write humorously in a foreign language

Ideals, Varieties, and Algorithms David Cox, John Little, DONAL OSHEA, 2013-03-09 Algebraic Geometry is the study of systems of polynomial equations in one or more variables asking such questions as Does the system have finitely many solutions and if so how can one find them And if there are infinitely many solutions how can they be described and manipulated The solutions of a system of polynomial equations form a geometric object called a variety the corresponding algebraic object is an ideal There is a close relationship between ideals and varieties which reveals the intimate link between algebra and geometry Written at a level appropriate to undergraduates this book covers such topics as the Hilbert Basis Theorem the Nullstellensatz invariant theory projective geometry and dimension theory The algorithms to answer questions such as those posed above are an important part of algebraic geometry This book bases its discussion of algorithms on a generalization of the division algorithm for polynomials in one variable that was only discovered in the 1960's Although the algorithmic roots of algebraic geometry are old the computational aspects were neglected earlier in this century This has changed in recent years and new algorithms coupled with the power of fast computers have led to some interesting applications for example in robotics and in geometric theorem proving In preparing a new edition of *Ideals Varieties and Algorithms* the authors present an improved proof of the Buchberger Criterion as well as a proof of Bezout's Theorem Appendix C contains a new section on Axiom and an update about Maple Mathematica and REDUCE

Algebraic Homogeneous Spaces and Invariant Theory Frank D. Grosshans, 2006-11-14 The invariant theory of non reductive groups has its roots in the 19th century but has seen some very interesting developments in the past

twenty years This book is an exposition of several related topics including observable subgroups induced modules maximal unipotent subgroups of reductive groups and the method of U invariants and the complexity of an action Much of this material has not appeared previously in book form The exposition assumes a basic knowledge of algebraic groups and then develops each topic systematically with applications to invariant theory Exercises are included as well as many examples some of which are related to geometry and physics

Arithmetic, Geometry, Cryptography and Coding Theory Alp Bassa, Alain Couvreur, David Kohel, 2017-03-27 This volume contains the proceedings of the 15th International Conference on Arithmetic Geometry Cryptography and Coding Theory AGCT held at the Centre International de Rencontres Mathématiques in Marseille France from May 18 22 2015 Since the first meeting almost 30 years ago the biennial AGCT meetings have been one of the main events bringing together researchers interested in explicit aspects of arithmetic geometry and applications to coding theory and cryptography This volume contains original research articles reflecting recent developments in the field

Schrödinger Equation Muhammad Bilal Tahir, Muhammad Sagir, Muhammad Isa Khan, Muhammad Rafique, 2024-01-10 Unlock the secrets of the universe with Schrödinger Equation Fundamental Aspects and Potential Applications Delve into the heart of quantum mechanics where matter energy and mathematics intertwine in a dance of profound discovery This essential volume introduces you to the spectral theory of the Schrödinger equation offering a sturdy foundation to explore its enigmatic depths Discover the fascinating world of scattering theory unraveling the intricacies of quantum interactions while the principles of quantization and Feynman path integrals reveal the mechanics of quantum systems With a fresh perspective we explore relative entropy methods and transformation theory unveiling their significance in crafting singular diffusion processes akin to Schrödinger equations This well organized and accessible book caters to a diverse audience from students and researchers to professionals in functional analysis probability theory and quantum dynamics Within these pages you will uncover the profound wonders of the Schrödinger equation and its vast potential in science engineering and technology Embark on a journey through the quantum cosmos and let your understanding of the universe expand as you explore the quantum realm Welcome to a world where matter and energy dance to the tune of Schrödinger's equation a world filled with infinite possibilities and extraordinary insights

Computer Algebra in Scientific Computing CASC'99 Victor G.

Ganzha, Ernst W. Mayr, Evgenii V. Vorozhtsov, 2012-12-06 The development of powerful computer algebra systems has considerably extended the scope of problems of scientific computing which can now be solved successfully with the aid of computers However as the field of applications of computer algebra in scientific computing becomes broader and more complex there is a danger of separation between theory systems and applications For this reason we felt the need to bring together the researchers who now apply the tools of computer algebra for the solution of problems in scientific computing in order to foster new and closer interactions CASC 99 is the second conference devoted to applications of computer algebra in scientific computing The first conference in this sequence CASC 98 was held 20 24 April 1998 in St Petersburg Russia This

volume contains revised versions of the papers submitted by the participants and accepted by the program committee after a thorough reviewing process. The collection of papers included in the proceedings covers various topics of computer algebra methods, algorithms and software applied to scientific computing, symbolic numeric analysis and solving differential equations, efficient computations with polynomials, groups, matrices and other related objects, special purpose programming environments, application to physics, mechanics, optics and to other areas. In particular, a significant group of papers deals with applications of computer algebra methods for the solution of current problems in group theory which mostly arise in mathematical physics.

Computer-Supported Calculus A. Ben-Israel, R. Gilbert, 2012-12-06 This is a new type of calculus book. Students who master this text will be well versed in calculus and in addition possess a useful working knowledge of one of the most important mathematical software systems, namely MACSYMA. This will equip them with the mathematical competence they need for science and engineering and the competitive workplace. The choice of MACSYMA is not essential for the didactic goal of the book. In fact, any of the other major mathematical software systems, e.g. AXIOM, MATHEMATICA, MAPLE, DERIVE or REDUCE could have been taken for the examples and for acquiring the skill in using these systems for doing mathematics on computers. The symbolic and numerical calculations described in this book will be easily performed in any of these systems by slight modification of the syntax as soon as the student understands and masters the MACSYMA examples in this book. What is important, however, is that the student gets all the information necessary to design and execute the calculations in at least one concrete implementation language as this is done in this book and also that the use of the mathematical software system is completely integrated with the text. In these times of globalization, firms which are unable to hire adequately trained technology experts will not prosper. For corporations which depend heavily on science and engineering, remaining competitive in the global economy will require hiring employees having had a traditionally rigorous mathematical education.

Algebraic Statistics for Computational Biology L. Pachter, B. Sturmfels, 2005-08-22 This book, first published in 2005, offers an introduction to the application of algebraic statistics to computational biology.

Progress in Galois Theory Helmut Voelklein, Tanush Shaska, 2006-08-10 The legacy of Galois was the beginning of Galois theory as well as group theory. From this common origin, the development of group theory took its own course which led to great advances in the latter half of the 20th century. It was John Thompson who shaped finite group theory like no one else, leading the way towards a major milestone of 20th century mathematics: the classification of finite simple groups. After the classification was announced around 1980, it was again John Thompson who led the way in exploring its implications for Galois theory. The first question is whether all simple groups occur as Galois groups over the rationals and related fields, and secondly, how can this be used to show that all finite groups occur. The Inverse Problem of Galois Theory: What are the implications for the structure and representations of the absolute Galois group of the rationals and other fields? Various other applications to algebra and number theory have been found, most prominently to the theory of algebraic curves, e.g. the

Guralnick Thompson Conjecture on the Galois theory of covers of the Riemann sphere **Algebraic Cycles, Sheaves, Shtukas, and Moduli** Piotr Pragacz, 2008-03-12 Articles examine the contributions of the great mathematician J M Hoene Wronski Although much of his work was dismissed during his lifetime it is now recognized that his work offers valuable insight into the nature of mathematics The book begins with elementary level discussions and ends with discussions of current research Most of the material has never been published before offering fresh perspectives on Hoene Wronski s contributions

Algorithms In Invariant Theory Texts Monographs In Symbolic Computation Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Algorithms In Invariant Theory Texts Monographs In Symbolic Computation**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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