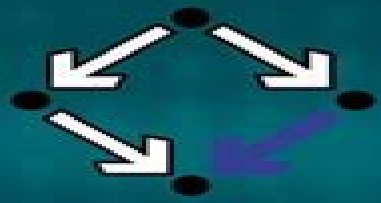
Texts & Monographs in Symbolic Computation

Bernd Sturmfels

Algorithms in Invariant Theory

2nd Edition



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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 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 **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 Grabner 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 **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 intro duction 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 proce dures 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 sys tem 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 **Semigroups and Automata** Uno Kaljulaid,2006 This volume provides a selection of previously published papers and manuscripts of Uno Kaljulaid an eminent Estonian algebraist of the last century The central part of the book is the English translation of Kaljulaid s 1979 Candidate thesis which originally was typewritten in Russian and manufactured in not so many copies The thesis is devoted to representation theory in the spirit of his thesis advisor B I Plotkin representations of semigroups and algebras especially extension to this situation and application of the notion of triangular product of representations for groups introduced by Plotkin Through representation theory Kaljulaid became also interested in automata theory which at a later phase became his main area of interest Another field of research concerns combinatorics Besides being an outstanding and most dedicated mathematician Uno Kaljulaid was

also very much interested in the history of mathematics In particular he took a vivid interest in the life and work of the great 19th century Dorpat Tartu algebraist Th Molien Kaljulaid was also very interested in teaching and exposition or popularization of mathematics Some of his more popular scientific papers were published in an Estonian language journal Matemaatika ja Kaasaeg Mathematics and Our Age Among them there is a whole series of papers about algebraic matters culminating in a brilliant elementary although partly rather philosophical essay devoted to Galois theory Another such series is his excellent essay of Diophantine Geometry in various installments followed by his loge to another of his teachers Yu I Manin It is believed that the inclusion of these papers here will make it more interesting for beginners and perhaps even contribute to attracting young people to mathematics *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 A tria The workshop was mainly devoted to approximate algebraic geometry and its plications The organizers wanted to emphasize the novel idea of approximate implici zation 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 repres tation 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 veloping ef cient algorithms Approximate implicitization makes this duality available for general curves and surfaces The traditional exact implicitization of parametric surfaces produce global rep sentations which are exact everywhere The surface patches used in CAD however are always de ned 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

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 rst There we wrote that it took three years of intense work just to ll three centimeters of your bookshelf The completion of this volume took four years and it is about four centimeters thick Thus we have a con rmed invariant which governs our writing our velocity is one centimeter per year after all e ects due to Hofstadter s Law have been taken into account When westartedthisprojectinthelastmillennium weplannedabookforlearning 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 ll it with amusing quotes varied jokes funny word games owery metaphors and occasional literarye orts 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 di cult to write humorously in a foreign language

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