Bernd Sturmfels

Algorithms in Invariant Theory

2nd Edition
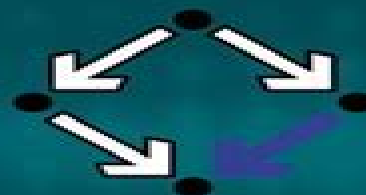
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Algorithms in Invariant Theory Bernd Sturmfels,2008-06-17 J Kung and G C Rota in their 1984 paper write Like the Arabian phoenix rising out of its ashes the theory of invariants pronounced dead at the turn of the century is once again at the forefront 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 **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 **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 **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 let 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 **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 **Mechanical Theorem Proving in Geometries** Wen-tsün Wu,2012-12-06 There seems to be no doubt that geometry originates from such practical activ ities as weather observation and terrain survey But there are different manners methods and ways to raise the various experiences to the level of theory so that they finally constitute a science F Engels said The objective of mathematics is the study of space forms and quantitative relations of the real world Dur ing the time of the ancient Greeks there were two different methods dealing with geometry one represented by the Euclid s Elements purely pursued the logical relations among geometric entities excluding completely the quantita tive relations as to establish the axiom system of geometry This method has become a model of deduction methods in mathematics The other represented by the relevant work of Archimedes focused on the study of quantitative re lations of geometric objects as well as their measures such as the ratio of the circumference of a circle to its diameter and the area of a spherical surface and of a parabolic sector Though these approaches vary in style have their own features and reflect different viewpoints in the development of geometry both have made great contributions to the development of mathematics The development of geometry in China was all along concerned

with quanti tative relations *Quantifier Elimination and Cylindrical Algebraic Decomposition* Bob F. Caviness,Jeremy R. Johnson,2012-12-06 George Collins discovery of Cylindrical Algebraic Decomposition CAD as a method for Quantifier Elimination QE for the elementary theory of real closed fields brought a major breakthrough in automating mathematics with recent important applications in high tech areas e g robot motion also stimulating fundamental research in computer algebra over the past three decades This volume is a state of the art collection of important papers on CAD and QE and on the related area of algorithmic aspects of real geometry It contains papers from a symposium held in Linz in 1993 reprints of seminal papers from the area including Tarski s landmark paper as well as a survey outlining the developments in CAD based QE that have taken place in the last twenty years   Collectanea Mathematica ,2006   Grobner Basis Methods for Integer Programming Rekha Rachel Thomas,1994   *Applied Algebra, Algebraic Algorithms, and Error-correcting Codes* ,1999   *Computer Algebra in Scientific Computing CASC'99* Victor G. Ganzha,Ernst W. Mayr,1999-05-31 The development of powerful computer algebra systems has considerably ex tended 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 ap ply 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 al gebra 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 par ticipants 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 scien tific 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 com puter algebra methods for the solution of current problems in group theory which mostly arise in mathematical physics   **Journal of Lie Theory** ,2006   *Beiträge Zur Algebra und Geometrie* ,2006   **Multivariate Approximation** Werner Haussmann,K. Jetter,Manfred Reimer,1997 This is the third edition of the leading practitioner s work on freedom of information Designed to provide in depth legal analysis and practical guidance this book has become the first port of call for anyone either seeking or handling requests for official information The latest edition maintains its authorship of expert lawyers The two years since the previous edition have seen numerous important decisions from the courts and from the Information Tribunal on freedom of information law The learning from all these has been incorporated into the text enabling a practitioner to see immediately all relevant cases and the principles that emerge from them The book is logically organised so that the practitioner can quickly find the topic of choice

The work commences with an historical analysis that sets out the object of the legislation and its relationship with other aspects of public law Full references to Hansard and other Parliamentary materials is provided This is followed by a summary of the regime in five comparative jurisdictions providing a useful testbed for anticipated effects of disclosure and a normative yardstick The impact of the Human Rights Act 1998 is given separate consideration Next follows a series of chapters dealing with rights of access under provisions apart from the FOI Act access to information held by EU bodies access to information under the Data Protection Act access to information under the Environmental Information Regulations public records and access under numerous other provisions in legislation Together these provide the practitioner with sources of access that might otherwise be overlooked All are arranged thematically The book then considers practical aspects of information requests the persons who may make them the bodies to whom they may be made the time allowed for responding the modes of response fees and vexatious requests the duty to advise and assist the codes of practice government guidance and its status transferring of requests third party consultation The next 13 chapters comprising over half the book are devoted to exemptions These start with two important chapters dealing with general principles including the notions of prejudice and the public interest The arrangement of these chapters reflects the arrangement of the FOI Act but the text is careful to include analogous references to the Environmental Information Regulations and the Data Protection Act 1998 With each chapter the exemption is carefully analysed starting with its Parliamentary history giving full references to Hansard and other Parliamentary material and the treatment given in the comparative jurisdictions The analysis then turns to consider all court judgments and tribunal decisions dealing with the exemption The principles are stated in the text with footnotes giving all available references Whether to prepare a case or to prepare a response to a request these chapters allow the practitioner to get on top of the exemption rapidly and authoritatively The book concludes with three chapters setting out the role of the Information Commissioner and the Tribunal appeals and enforcement The chapter on appeals allows the practitioner to be familiar with the processes followed in the tribunal picking up on the jurisprudence as it has emerged over the last five or so years Appendices include precedent requests for information a step by step guide to responding to a request comparative tables and a table of the FOI Act s Parliamentary history Finally the book includes an annotated copy of the FOIA Act the Data Protection Act 1998 the Environmental Information Regulations 2004 all subordinate legislation made under them EU legislation Tribunal rules and practice directions and the Codes of Practice Throughout the book full web references are given including to all cases facilitating ready access to primary material From the reviews of previous editions The depth of analysis and thought that Philip Coppel brings to the topic is evident throughout Careful analysis is a hallmark of the book which reflects not merely an academic interest in the legal regime but a real and active interest in the wider societal issues involved in the development of the law in this area The text delivers excellent value for anyone working seriously in this area Rosemary Jay in Freedom of Information JournalEncyclopaedic and authoritative a very useful guide to practitioners as well

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Table of Contents Algorithms In Invariant Theory Texts Monographs In Symbolic Computation

1. Understanding the eBook Algorithms In Invariant Theory Texts Monographs In Symbolic Computation
    - The Rise of Digital Reading Algorithms In Invariant Theory Texts Monographs In Symbolic Computation
    - Advantages of eBooks Over Traditional Books
2. Identifying Algorithms In Invariant Theory Texts Monographs In Symbolic Computation
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Algorithms In Invariant Theory Texts Monographs In Symbolic Computation
    - User-Friendly Interface
4. Exploring eBook Recommendations from Algorithms In Invariant Theory Texts Monographs In Symbolic Computation
    - Personalized Recommendations
    - Algorithms In Invariant Theory Texts Monographs In Symbolic Computation User Reviews and Ratings
    - Algorithms In Invariant Theory Texts Monographs In Symbolic Computation and Bestseller Lists
5. Accessing Algorithms In Invariant Theory Texts Monographs In Symbolic Computation Free and Paid eBooks
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