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Invariant Theory and Algebraic Transformation Groups VIII

Reza V. Gamkrelidze · Vladimir I. Popov · Subseries Editors

Harm Derksen  
Gregor Kemper

# Computational Invariant Theory

*Second Edition*

 Springer

# Computational Invariant Encyclopaedia Mathematical Sciences

**Michal Rosen-Zvi**



## **Computational Invariant Encyclopaedia Mathematical Sciences:**

*Computational Invariant Theory* Harm Derksen, Gregor Kemper, 2015-12-23 This book is about the computational aspects of invariant theory Of central interest is the question how the invariant ring of a given group action can be calculated Algorithms for this purpose form the main pillars around which the book is built There are two introductory chapters one on Gröbner basis methods and one on the basic concepts of invariant theory which prepare the ground for the algorithms Then algorithms for computing invariants of finite and reductive groups are discussed Particular emphasis lies on interrelations between structural properties of invariant rings and computational methods Finally the book contains a chapter on applications of invariant theory covering fields as disparate as graph theory coding theory dynamical systems and computer vision The book is intended for postgraduate students as well as researchers in geometry computer algebra and of course invariant theory The text is enriched with numerous explicit examples which illustrate the theory and should be of more than passing interest More than ten years after the first publication of the book the second edition now provides a major update and covers many recent developments in the field Among the roughly 100 added pages there are two appendices authored by Vladimir Popov and an addendum by Norbert A Campo and Vladimir Popov

**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

**Computational Aspects of Discrete Subgroups of Lie Groups** Alla Detinko, Michael Kapovich, Alex Kontorovich, Peter Sarnak, Richard Schwartz, 2023-03-10 This volume contains the proceedings of the virtual workshop on Computational Aspects of Discrete Subgroups of Lie Groups held from June 14 to June 18 2021 and hosted by the Institute for Computational and Experimental Research in Mathematics ICERM Providence Rhode Island The major theme deals with a novel domain of computational algebra the design implementation and application of algorithms based on matrix representation of groups and their geometric properties It is centered on computing with discrete subgroups of Lie groups which impacts many different areas of mathematics such as algebra geometry topology and number theory The workshop aimed to synergize independent strands in the area of computing with discrete subgroups of Lie groups to facilitate solution of theoretical problems by means of recent advances in computational

algebra     **Multiplicative Invariant Theory** Martin Lorenz, 2005-12-08 Multiplicative invariant theory as a research area in its own right within the wider spectrum of invariant theory is of relatively recent vintage The present text offers a coherent account of the basic results achieved thus far Multiplicative invariant theory is intimately tied to integral representations of finite groups Therefore the field has a predominantly discrete algebraic flavor Geometry specifically the theory of algebraic groups enters through Weyl groups and their root lattices as well as via character lattices of algebraic tori Throughout the text numerous explicit examples of multiplicative invariant algebras and fields are presented including the complete list of all multiplicative invariant algebras for lattices of rank 2 The book is intended for graduate and postgraduate students as well as researchers in integral representation theory commutative algebra and mostly invariant theory     **The Computer Algebra**

**System OSCAR** Wolfram Decker, Christian Eder, Claus Fieker, Max Horn, Michael Joswig, 2025-01-30 This book presents version 1.0 of the new Computer Algebra System OSCAR Written in Julia OSCAR builds on and vastly extends four cornerstone systems ANTIC for number theory GAP for group and representation theory polymake for polyhedral and tropical geometry and Singular for commutative algebra and algebraic geometry It offers powerful computational tools that transcend the boundaries of the individual disciplines involved It is freely available open source software The book is an invitation to use OSCAR With discussions of theoretical and algorithmic aspects included it offers a multitude of explicit code snippets These are valuable for interested researchers from graduate students through established experts

**Combinatorial Algebraic Geometry** Gregory G. Smith, Bernd Sturmfels, 2017-11-17 This volume consolidates selected articles from the 2016 Apprenticeship Program at the Fields Institute part of the larger program on Combinatorial Algebraic Geometry that ran from July through December of 2016 Written primarily by junior mathematicians the articles cover a range of topics in combinatorial algebraic geometry including curves surfaces Grassmannians convexity abelian varieties and moduli spaces This book bridges the gap between graduate courses and cutting edge research by connecting historical sources computation explicit examples and new results     **Polynomial Automorphisms and the Jacobian Conjecture**

Arno van den Essen, Shigeru Kuroda, Anthony J. Crachiola, 2021-03-31 This book is an extension to Arno van den Essen's Polynomial Automorphisms and the Jacobian Conjecture published in 2000 Many new exciting results have been obtained in the past two decades including the solution of Nagata's Conjecture the complete solution of Hilbert's fourteenth problem the equivalence of the Jacobian Conjecture and the Dixmier Conjecture the symmetric reduction of the Jacobian Conjecture the theory of Mathieu-Zhao spaces and counterexamples to the Cancellation problem in positive characteristic These and many more results are discussed in detail in this work The book is aimed at graduate students and researchers in the field of Affine Algebraic Geometry Exercises are included at the end of each section     **Recent Advances in Noncommutative Algebra**

**and Geometry** K. A. Brown, T. J. Hodges, M. Vancliff, J. J. Zhang, 2024-05-30 This volume contains the proceedings of the conference Recent Advances and New Directions in the Interplay of Noncommutative Algebra and Geometry held from June

20 24 2022 at the University of Washington Seattle in honor of S Paul Smith s 65th birthday The articles reflect the wide interests of Smith and provide researchers and graduate students with an indispensable overview of topics of current interest Specific fields covered include noncommutative algebraic geometry representation theory Hopf algebras and quantum groups the elliptic algebras of Feigin and Odesskii Calabi Yau algebras Artin Schelter regular algebras deformation theory and Lie theory In addition to original research contributions the volume includes an introductory essay reviewing Smith s research contributions in these fields and several survey articles

Recent Advances in Representation Theory, Quantum Groups, Algebraic Geometry, and Related Topics Pramod M. Achar, Dijana Jakelić, Kailash C. Misra, Milen Yakimov, 2014-08-27

This volume contains the proceedings of two AMS Special Sessions Geometric and Algebraic Aspects of Representation Theory and Quantum Groups and Noncommutative Algebraic Geometry held October 13 14 2012 at Tulane University New Orleans Louisiana Included in this volume are original research and some survey articles on various aspects of representations of algebras including Kac Moody algebras Lie superalgebras quantum groups toroidal algebras Leibniz algebras and their connections with other areas of mathematics and mathematical physics

**Advances in Rings, Modules and Factorizations** Alberto Facchini, Marco Fontana, Alfred Geroldinger, Bruce Olberding, 2020-06-02 Occasioned by the international conference Rings and Factorizations held in February 2018 at University of Graz Austria this volume represents a wide range of research trends in the theory of commutative and non commutative rings and their modules including multiplicative ideal theory Dedekind and Krull rings and their generalizations rings of integer valued polynomials topological aspects of ring theory factorization theory in rings and semigroups and direct sum decompositions of modules The volume will be of interest to researchers seeking to extend or utilize work in these areas as well as graduate students wishing to find entryways into active areas of current research in algebra A novel aspect of the volume is an emphasis on how diverse types of algebraic structures and contexts rings modules semigroups categories may be treated with overlapping and reinforcing approaches

*Handbook of Algebra* M. Hazewinkel, 2006-05-30 Algebra as we know it today consists of many different ideas concepts and results A reasonable estimate of the number of these different items would be somewhere between 50 000 and 200 000 Many of these have been named and many more could and perhaps should have a name or a convenient designation Even the nonspecialist is likely to encounter most of these either somewhere in the literature disguised as a definition or a theorem or to hear about them and feel the need for more information If this happens one should be able to find enough information in this Handbook to judge if it is worthwhile to pursue the quest In addition to the primary information given in the Handbook there are references to relevant articles books or lecture notes to help the reader An excellent index has been included which is extensive and not limited to definitions theorems etc The Handbook of Algebra will publish articles as they are received and thus the reader will find in this third volume articles from twelve different sections The advantages of this scheme are two fold accepted articles will be published quickly and the outline of the Handbook can be allowed to evolve as

the various volumes are published A particularly important function of the Handbook is to provide professional mathematicians working in an area other than their own with sufficient information on the topic in question if and when it is needed Thorough and practical source for information Provides in depth coverage of new topics in algebra Includes references to relevant articles books and lecture notes      *Symmetry and Spaces* H.E.A. Eddy Campbell,Aloysius G. Helminck,Hanspeter Kraft,David L. Wehlau,2010-01-23 This volume includes articles that are a sampling of modern day algebraic geometry with associated group actions from its leading experts There are three papers examining various aspects of modular invariant theory Broer Elmer and Fleischmann Shank and Wehlau and seven papers concentrating on characteristic 0 Brion Daigle and Freudenberg Greb and Heinzner Helminck Kostant Kraft and Wallach Traves      **The Center and Focus Problem** M.N. Popa,V.V. Pricop,2021-09-23 The Center and Focus Problem Algebraic Solutions and Hypotheses M N Popa and V V Pricop ISBN 978 1 032 01725 9 Hardback This book focuses on an old problem of the qualitative theory of differential equations called the Center and Focus Problem It is intended for mathematicians researchers professors and Ph D students working in the field of differential equations as well as other specialists who are interested in the theory of Lie algebras commutative graded algebras the theory of generating functions and Hilbert series The book reflects the results obtained by the authors in the last decades A rather essential result is obtained in solving Poincaré's problem Namely there are given the upper estimations of the number of Poincaré-Lyapunov quantities which are algebraically independent and participate in solving the Center and Focus Problem that have not been known so far These estimations are equal to Krull dimensions of Sibirsky graded algebras of comitants and invariants of systems of differential equations      Invitation to Nonlinear Algebra Mateusz Michałek,Bernd Sturmfels,2021-03-05 Nonlinear algebra provides modern mathematical tools to address challenges arising in the sciences and engineering It is useful everywhere where polynomials appear in particular data and computational sciences statistics physics optimization The book offers an invitation to this broad and fast developing area It is not an extensive encyclopedia of known results but rather a first introduction to the subject allowing the reader to enter into more advanced topics It was designed as the next step after linear algebra and well before abstract algebraic geometry The book presents both classical topics like the Nullstellensatz and primary decomposition and more modern ones like tropical geometry and semidefinite programming The focus lies on interactions and applications Each of the thirteen chapters introduces fundamental concepts The book may be used for a one semester course and the over 200 exercises will help the readers to deepen their understanding of the subject      **Handbook of Geometry and Topology of Singularities VII** José Luis Cisneros-Molina,Lê Dũng Tráng,José Seade,2025-03-01 This is the seventh volume of the Handbook of Geometry and Topology of Singularities a series that aims to provide an accessible account of the state of the art of the subject its frontiers and its interactions with other areas of research This volume consists of fourteen chapters that provide an in depth and reader friendly introduction to various important aspects of

singularity theory The volume begins with an outstanding exposition on Jim Damon's contributions to singularity theory and its applications Jim passed away in 2022 and he was one of the greatest mathematicians of recent times having made remarkable contributions to singularity theory and its applications mostly to medical image computing The next chapter focuses on the singularities of real functions and their bifurcation sets Then we look at the perturbation theory of polynomials and linear operators complex analytic frontal singularities the global singularity theory of differentiable maps and the singularities of holomorphic functions from a global point of view The volume continues with an overview of new tools in singularity theory that spring from symplectic geometry and Floer type homology theories Then it looks at the derivation of Lie algebras of isolated singularities and the three dimensional rational isolated complete intersection singularities as well as recent developments in algebraic K stability and the stable degeneration conjecture This volume also contains an interesting survey on V filtrations a theory began by Malgrange and Kashiwara that can be used to study nearby and vanishing cycle functors and introduced by Deligne Then we present a panoramic view of the Hodge toric and motivic methods in the study of Milnor fibers in singularity theory both from local and global points of view The Monodromy conjecture is also explained this is a longstanding open problem in singularity theory that lies at the crossroads of number theory algebra analysis geometry and topology This volume closes with recent developments in the study of the algebraic complexity of optimization problems in applied algebraic geometry and algebraic statistics The book is addressed to graduate students and newcomers to the theory as well as to specialists who can use it as a guidebook

### **Women in Numbers Europe III** Alina Carmen

Cojocaru, Sorina Ionica, Elisa Lorenzo García, 2022-02-01 This volume includes articles spanning several research areas in number theory such as arithmetic geometry algebraic number theory analytic number theory and applications in cryptography and coding theory Most of the articles are the results of collaborations started at the 3rd edition of the Women in Numbers Europe WINE conference between senior and mid level faculty junior faculty postdocs and graduate students The contents of this book should be of interest to graduate students and researchers in number theory

*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

### **A Tour of Representation Theory** Martin Lorenz, 2018 Offers an

introduction to four different flavours of representation theory representations of algebras groups Lie algebras and Hopf algebras A separate part of the book is devoted to each of these areas and they are all treated in sufficient depth to enable the reader to pursue research in representation theory

Involution Werner M. Seiler, 2009-10-26 The book provides a self

contained account of the formal theory of general i.e. also under and overdetermined systems of differential equations which in its central notion of involution combines geometric algebraic homological and combinatorial ideas      **Computation and Applied Mathematics**, 2001



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