

Frank D. Grosshans

**Algebraic  
Homogeneous Spaces  
and Invariant Theory**

1673

# Invariant Theory Lecture Notes In Mathematics

**DJ Losen**



## **Invariant Theory Lecture Notes In Mathematics:**

Lectures on Invariant Theory Igor Dolgachev, 2003-08-07 The primary goal of this 2003 book is to give a brief introduction to the main ideas of algebraic and geometric invariant theory It assumes only a minimal background in algebraic geometry algebra and representation theory Topics covered include the symbolic method for computation of invariants on the space of homogeneous forms the problem of finite generatedness of the algebra of invariants the theory of covariants and constructions of categorical and geometric quotients Throughout the emphasis is on concrete examples which originate in classical algebraic geometry Based on lectures given at University of Michigan Harvard University and Seoul National University the book is written in an accessible style and contains many examples and exercises A novel feature of the book is a discussion of possible linearizations of actions and the variation of quotients under the change of linearization Also includes the construction of toric varieties as torus quotients of affine spaces

**Invariant Theory** John Fogarty, 1969 *Theory of Algebraic Invariants* David Hilbert, 1993-11-26 An English translation of the notes from David Hilbert's course in 1897 on Invariant Theory at the University of Gottingen taken by his student Sophus Marxen

**Invariant Theory in All Characteristics** Harold Edward Alexander Eddy Campbell, David L. Wehlau, 2004 This volume includes the proceedings of a workshop on Invariant Theory held at Queen's University Ontario The workshop was part of the theme year held under the auspices of the Centre de recherches mathématiques CRM in Montreal The gathering brought together two communities of researchers those working in characteristic 0 and those working in positive characteristic The book contains three types of papers survey articles providing introductions to computational invariant theory modular invariant theory of finite groups and the invariant theory of Lie groups expository works recounting recent research in these three areas and beyond and open problems of current interest The book is suitable for graduate students and researchers working in invariant theory

**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

**Geometric Invariant Theory** David Mumford, John Fogarty, Frances Kirwan, 1994-03-29 This standard reference on applications of invariant theory to the construction of moduli spaces is a systematic exposition of the geometric aspects of classical theory of polynomial invariants This new revised edition is completely updated and enlarged with an additional chapter on the moment map by Professor Frances Kirwan It includes a fully updated bibliography of work in this area

Invariant Theory T.A. Springer, 2006-11-14 *Invariant Theory* Mara D. Neusel, 2007 This book

presents the characteristic zero invariant theory of finite groups acting linearly on polynomial algebras The author assumes basic knowledge of groups and rings and introduces more advanced methods from commutative algebra along the way The theory is illustrated by numerous examples and applications to physics engineering numerical analysis combinatorics coding theory and graph theory A wide selection of exercises and suggestions for further reading makes the book appropriate for an advanced undergraduate or first year graduate level course

*Invariant Theory in All Characteristics* Harold Edward Alexander Eddy Campbell, David L. Wehlau, This volume includes the proceedings of a workshop on Invariant Theory held at Queen's University Ontario The workshop was part of the theme year held under the auspices of the Centre de recherches mathématiques CRM in Montreal The gathering brought together two communities of researchers those working in characteristic 0 and those working in positive characteristic The book contains three types of papers survey articles providing introductions to computational invariant theory modular invariant theory of finite groups and the invariant theory of Lie groups expository works recounting recent research in these three areas and beyond and open problems of current interest The book is suitable for graduate students and researchers working in invariant theory

**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

**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 **The Invariant Theory of Matrices** Corrado De Concini, Claudio Procesi, 2017-11-16 This book gives a unified complete and self contained exposition of the main algebraic theorems of invariant theory for matrices in a characteristic free approach More precisely it contains the description of polynomial functions in several variables on the set of matrices with coefficients in an infinite field or even the ring of integers invariant under simultaneous conjugation Following Hermann Weyl's classical approach the ring of invariants is described by formulating and proving 1 the first fundamental theorem that describes a set of generators in the ring of invariants and 2 the second fundamental theorem that describes relations between these generators The authors study both the case of matrices over a field of characteristic 0 and the case of matrices over a field of positive characteristic While the case of characteristic 0 can be treated following a classical approach the case of positive characteristic developed by Donkin and Zubkov is much harder A presentation of this case requires the development of a collection of tools These tools and their application to the study of invariants are explained in an elementary self contained way in the book

**Encyclopaedia of Mathematical Sciences** John Fogarty, 1969 **Invariant Theory** T.A. Springer, 1977-05

*Invariant Theory and Tableaux* Dennis Stanton, 1990 This volume stems from a workshop held for the Applied Combinatorics program in March 1988 The central idea of the workshop was the recent interplay of the classical analysis of  $q$  series and the combinatorial analysis of partitions of integers Many related topics were discussed including orthogonal polynomials the Macdonald conjectures for root systems and related integrals Those people interested in combinatorial enumeration and special functions will find this volume of interest Recent applications of  $q$  series and related functions to exactly solvable statistical mechanics models and to statistics makes this volume of interest to non specialists Included are several expository papers and a series of papers on new work on the unimodality of the  $q$  binomial coefficient Comptes Rendus Mathématiques de L'Académie Des Sciences Royal Society of Canada. Academy of Science, 2005 Invariant Theory S. S. Koh, 1987 This volume of expository papers is the outgrowth of a conference in combinatorics and invariant theory In recent years newly developed techniques from algebraic geometry and combinatorics have been applied with great success to some of the outstanding problems of invariant theory moving it back to the forefront of mathematical research once again This collection of papers centers on constructive aspects of invariant theory and opens with an introduction to the subject by F Grosshans Its purpose is to make the current research more accessible to mathematicians in related fields *Bulletin (new Series) of the American Mathematical Society*, 1902 **Bulletin of the American Mathematical Society**, 1902

*Lie Groups, Their Discrete Subgroups, and Invariant Theory* Ernest Borisovich Vinberg, 1992 For the past thirty years E B Vinberg and L A Onishchik have conducted a seminar on Lie groups at Moscow University about five years ago V L Popov became the third co director and the range of topics expanded to include invariant theory Today the seminar encompasses such areas as algebraic groups geometry and topology of homogeneous spaces and Kac Moody groups and algebras This

collection of papers presents a snapshot of the research activities of this well established seminar including new results in Lie groups crystallographic groups and algebraic transformation groups These papers will not be published elsewhere Readers will find this volume useful for the new results it contains as well as for the open problems it poses

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