

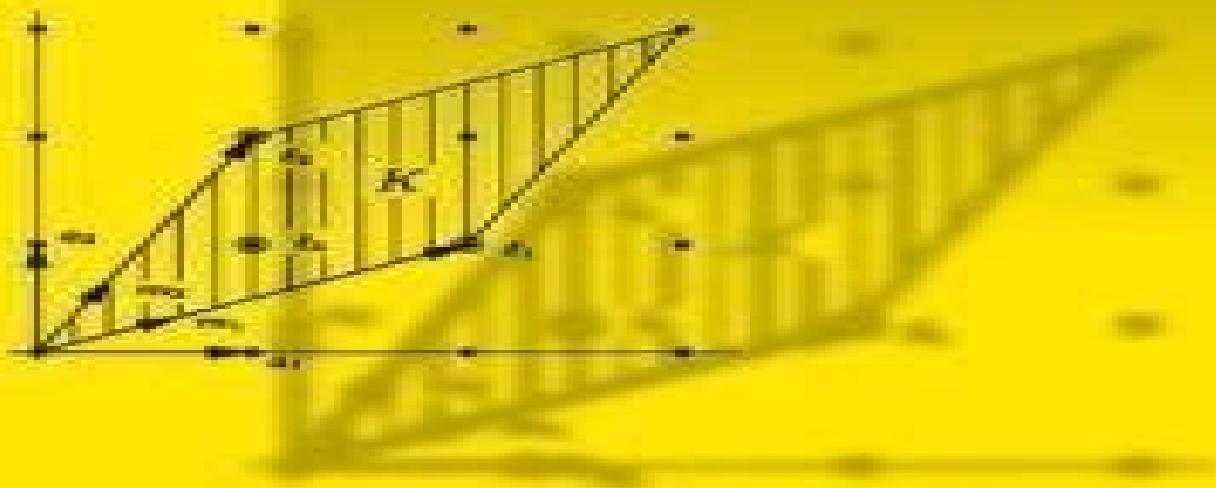
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By V. V. GLAZOV  
M. E. KHOPEN  
Sobolev Institute

MARTIN LOEHR

**Multiplicative  
Invariant Theory**



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# Multiplicative Invariant Theory

**David Mumford, John Fogarty**

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*Multiplicative Invariant Theory* Martin Lorenz, 2005-03-10 Multiplicative invariant theory as a research area in its own right within the wider

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*Reflection Groups and Semigroup Algebras in Multiplicative Invariant Theory* Mohammed S. Tesemma, 2004

**Multiplicative Invariants of Root Lattices**

Jessica Ann Hamm, 2014 Classical invariant theory is a field of study within abstract algebra that has been around for well over a century However the field of multiplicative invariant theory is rather new having only been studied formally for the past 35 years Multiplicative invariants arise naturally in a variety of settings notably as representation rings of Lie algebras centers of group algebras and actions on algebraic tori In this thesis we calculate the multiplicative invariants for lattices associated to root systems under the actions of their Weyl groups

**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 Gr bner 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 Vladimi r 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

**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 Bulletin (new Series) of the American Mathematical Society ,1922 Mathematical Reviews ,2005 Number Theory, Invariants, and Applications Percy Alexander MacMahon,1986 Some of the fifty six papers in Volume II relate to combinatorics but most of them investigate quite distinct areas and reveal a different side of MacMahons mind and mathematical originality

**Geometric Invariant Theory** David Mumford,John Fogarty,1982 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 **Introduction to Geometric Invariant Theory** Igor V. Dolgachev,1994 Notices of the American Mathematical Society American Mathematical Society,1992 Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society,2007 **Invariant Theory, Old and New** Jean Alexandre Dieudonné,Jean Dieudonné,James B. Carrell,1971 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 Invariant Theory T.A. Springer, 1977-05

**Proceedings of the International Colloquium on Algebraic Groups and Homogeneous Spaces** V. B. Mehta, 2007 The area of algebraic groups and homogeneous spaces is one in which major advances have been made in recent decades This was the theme of the twelfth International Colloquium organized by the Tata Institute of Fundamental Research in January 2004 and this volume constitutes the proceedings of that meeting This volume contains articles by several leading experts in central topics in the area including representation theory flag varieties Schubert varieties vector bundles loop groups and Kac Moody Lie algebras Galois cohomology of algebraic groups and Tannakian categories In addition to the original papers in these areas the volume includes a survey on representation theory in characteristic p by H Andersen and an article by T A Springer on Armand Borel's work in algebraic groups and Lie groups

**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 **Dissertation Abstracts International**, 2005

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