Polynomial Invariants of Finite Groups

Larry Smith

Polynomial Invariant Of Finite Groups

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Polynomial Invariant Of Finite Groups:

Polynomial Invariants of Finite Groups Larry Smith,1995-04-15 Written by an algebraic topologist motivated by his own desire to learn this well written book represents the compilation of the most essential and interesting results and methods in the theory of polynomial invariants of finite groups From the table of contents Invariants and Relative Invariants Finite Generation of Invariants Constructio *Polynomial Invariants of Finite Groups* D. J. Benson,1993-10-07 This is the first book to deal with invariant theory and the representations of finite groups **Polynomial Invariants of Finite Groups** David J. Benson,2014-05-14 This is the first book to deal with invariant theory and the representations of finite groups By restricting attention to finite groups Dr Benson is able to avoid recourse to the technical machinery of algebraic groups and he develops the necessary results from commutative algebra as he proceeds Thus the book should be accessible to graduate students In detail the book contains an account of invariant theory for the action of a finite group on the ring of polynomial functions on a linear representation both in characteristic zero and characteristic p Special attention is paid to the role played by pseudoreflections which arise because they correspond to the divisors in the polynomial ring which ramify over the invariants Also included is a new proof by Crawley Boevey and the author of the Carlisle Kropholler conjecture This volume will appeal to all algebraists but especially those working in representation theory group theory and commutative or homological algebra

Invariant Theory of Finite Groups Mara D. Neusel,Larry Smith,2002 The questions that have been at the center of invariant theory since the 19th century have revolved around the following themes finiteness computation and special classes of invariants This book begins with a survey of many concrete examples chosen from these themes in the algebraic homological and combinatorial context In further chapters the authors pick one or the other of these questions as a departure point and present the known answers open problems and methods andtools needed to obtain these answers Chapter 2 deals with algebraic finiteness Chapter 3 deals with combinatorial finiteness Chapter 4 presents Noetherian finiteness Chapter 5 addresses homological finiteness Chapter 6 presents special classes of invariants which deal with modular invarianttheory and its particular problems and features Chapter 7 collects results for special classes of invariants and coinvariants such as pseudo reflection groups and representations of low degree If the ground field is finite ad The book contains numerous examples to illustrate the theory often of more than passing interest and an appendix on commutative graded algebra which provides some of the required basic background There is an extensive reference list to provide the reader withorientation to the vast literature *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   Polynomial Invariants of Finite Groups ,1997-06-01   *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   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 mathematiques 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 invarianttheory 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 invarianttheory   Algorithmic Algebra and Number Theory B.Heinrich Matzat,Gert-Martin Greuel,Gerhard Hiss,2012-12-06 This book contains 22 lectures presented at the final conference of the Ger man research program Schwerpunktprogramm Algorithmic Number The ory and Algebra 1991 1997 sponsored by the Deutsche Forschungsgemein schaft The purpose of this research program and of the meeting was to bring together developers of computer algebra software and researchers using com putational methods to gain insight into experimental problems and theoret ical questions in algebra and number theory The book gives an overview on algorithmic methods and on results ob tained during this period This includes survey articles on the main research projects within the program algorithmic number theory emphasizing class field theory constructive Galois theory computational aspects of modular forms and of Drinfeld modules computational algebraic geometry including real quantifier elimination and real algebraic geometry and invariant theory of finite groups computational aspects of presentations and representations of groups especially finite groups of Lie type and their Heeke algebras and of the isomorphism problem in group theory Some of

the articles illustrate the current state of computer algebra sys tems and program packages developed with support by the research pro gram such as KANT and LiDIA for algebraic number theory SINGULAR RED LOG and INVAR for commutative algebra and invariant theory respec tively and GAP SYSYPHOS and CHEVIE for group theory and representation theory

Multiplicative Ideal Theory and Factorization Theory Scott Chapman,Marco Fontana,Alfred Geroldinger,Bruce Olberding,2016-07-29 This book consists of both expository and research articles solicited from speakers at the conference entitled Arithmetic and Ideal Theory of Rings and Semigroups held September 22 26 2014 at the University of Graz Graz Austria It reflects recent trends in multiplicative ideal theory and factorization theory and brings together for the first time in one volume both commutative and non commutative perspectives on these areas which have their roots in number theory commutative algebra and algebraic geometry Topics discussed include topological aspects in ring theory Pr fer domains of integer valued polynomials and their monadic submonoids and semigroup algebras It will be of interest to practitioners of mathematics and computer science and researchers in multiplicative ideal theory factorization theory number theory and algebraic geometry **Handbook of Fluid Dynamics** Richard W. Johnson,1998-05-28 This book provides professionals in the field of fluid dynamics with a comprehensive guide and resource The book balances three traditional areas of fluid mechanics theoretical computational and experimental and expounds on basic science and engineering techniques Each chapter introduces a topic discusses the primary issues related to this subject outlines approaches taken by experts and supplies references for further information Topics discussed include basic engineering fluid dynamics classical fluid dynamics turbulence modeling reacting flows multiphase flows flow and porous media high Reynolds number asymptotic theories finite difference method finite volume method finite element method spectral element methods for incompressible flows experimental methods such as hot wire anemometry laser Doppler velocimetry and flow visualization applications such as axial flow compressor and fan aerodynamics turbomachinery airfoils and wings atmospheric flows and mesoscale oceanic flows The text enables experts in particular areas to become familiar with useful information from outside their specialization providing a broad reference for the significant areas within fluid dynamics **Invariant Subalgebras of Certain Finite Groups of Automorphisms of Polynomial Algebras** Rosalind Joyce Neuman,1981 *Nagoya Mathematical Journal* ,1963 Issue for Mar 1970 dedicated to Professor Katuzi Ono on his 60th birthday with portrait sketch of his life and list of mathematical papers Bulletin (new Series) of the American Mathematical Society ,1997 *Bulletin of the American Mathematical Society* ,1997 **Journal of Mathematics of Kyoto University** Kyōto Daigaku,1961 **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 mathematiques 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 invarianttheory 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 invarianttheory   **Comptes Rendus Mathématiques de L'Académie Des Sciences** Royal Society of Canada. Academy of Science,2005   *On the Mod P Cohomology of the Symplectic Group Sp(4,p) and the General Linear Group GL(3,p)* Jennifer Joy Ziebarth,2000   <u>The Curves Seminar at Queen's</u> A. V. Geramita,1998

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