Algorithms In Invariant Theory Texts Monographs In Symbolic Computation

Invariant TheoryAlgorithms in Invariant TheoryClassical Invariant TheoryGeometric Invariant Theory and Decorated Principal BundlesReflection Groups and Invariant TheoryInvariant TheoryClassical Invariant TheoryComputational Invariant TheoryInvariant Theory, Old and NewInvariant TheoryGeometric Invariant TheoryGeometric Invariant TheoryRepresentations and Invariants of the Classical GroupsMultiplicative Invariant TheoryInvariant theoryA Treatise on the Theory of InvariantsModular Invariant TheoryModular Invariant TheoryCombinatorial, Computational, and Applied Algebraic GeometryReflection Groups and Invariant Theory Mara D. Neusel Bernd Sturmfels Peter J. Olver Alexander H. W. Schmitt Richard Kane T. A. Springer Peter J. Olver Harm Derksen Jean Alexandre Dieudonné David Mumford David Mumford Roe Goodman Martin Lorenz Jean A. Dieudonné Oliver Edmunds Glenn H.E.A. Eddy Campbell H.E.A. Eddy Campbell Serkan Ho?ten Invariant Theory Algorithms in Invariant Theory Classical Invariant Theory Geometric Invariant Theory and Decorated Principal Bundles Reflection Groups and Invariant Theory Invariant Theory Classical Invariant Theory Computational Invariant Theory Invariant Theory, Old and New Invariant Theory Geometric Invariant Theory Geometric Invariant Theory Representations and Invariants of the Classical Groups Multiplicative Invariant Theory Invariant theory A Treatise on the Theory of Invariants Modular Invariant Theory Modular Invariant Theory Combinatorial, Computational, and Applied Algebraic Geometry Reflection Groups and Invariant Theory *Mara D. Neusel Bernd Sturmfels Peter J. Olver Alexander H. W. Schmitt Richard Kane T. A. Springer Peter J. Olver Harm Derksen Jean Alexandre Dieudonné David Mumford David Mumford Roe Goodman Martin Lorenz Jean A. Dieudonné Oliver Edmunds Glenn H.E.A. Eddy Campbell H.E.A. Eddy Campbell Serkan Ho?ten*

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

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

the book is a self contained introduction to the results and methods in classical invariant theory

the book starts with an introduction to geometric invariant theory git the fundamental results of hilbert and mumford are exposed as well as more recent topics such as the instability flag the finiteness of the number of quotients and the variation of quotients in the second part git is applied to solve the classification problem of decorated principal bundles on a compact riemann surface the solution is a quasi projective moduli scheme which parameterizes those objects that satisfy a semistability condition originating from gauge theory the moduli space is equipped with a generalized hitchin map via the universal kobayashi hitchin correspondence these moduli spaces are related to moduli spaces of solutions of certain vortex type equations potential applications include the study of representation spaces of the fundamental group of compact riemann surfaces the book concludes with a brief

discussion of generalizations of these findings to higher dimensional base varieties positive characteristic and parabolic bundles the text is fairly self contained e g the necessary background from the theory of principal bundles is included and features numerous examples and exercises it addresses students and researchers with a working knowledge of elementary algebraic geometry

reflection groups and invariant theory is a branch of mathematics that lies at the intersection between geometry and algebra the book contains a deep and elegant theory evolved from various graduate courses given by the author over the past 10 years

the book is a self contained introduction to the results and methods in classical invariant theory

this book the first volume of a subseries on invariant theory and algebraic transformation groups provides a comprehensive and up to date overview of the algorithmic aspects of invariant theory numerous illustrative examples and a careful selection of proofs make the book accessible to non specialists

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

more than half a century has passed since weyl s the classical groups gave a unified picture of invariant theory this book presents an updated version of this theory together with many of the important recent developments as a text for those new to the area this book provides an introduction to the structure and finite dimensional representation theory of the complex classical groups that requires only an abstract algebra course as a prerequisite the more advanced reader will find an introduction to the structure and representations of complex reductive algebraic groups and their compact real forms this book will also serve as a reference for the main results on

tensor and polynomial invariants and the finite dimensional representation theory of the classical groups it will appeal to researchers in mathematics statistics physics and chemistry whose work involves symmetry groups representation theory invariant theory and algebraic group theory

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

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

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this volume consists of surveys on topics to which bernd sturmfels has contributed over his mathematical career invariant theory gr bner bases toric ideals and varieties algebraic methods in discrete and convex optimization hypergeometric systems algebraic statistics likelihood geometry tropical geometry chemical reaction networks numerical methods in algebraic geometry sums of squares tropical geometry tensors and algebraic vision each article gives a gentle introduction to the topic many contributions summarize the state of the art in each subject the volume is perfect for anyone who wishes an entry point to any one of these diverse topics

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