

Classical Groups and Geometric Algebra

Larry C. Grove

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Classical Groups And Geometric Algebra Graduate Studies In Mathematics

**Giovanni De Franceschi, Martin W.
Liebeck, Eamonn A. O'Brien**



Classical Groups And Geometric Algebra Graduate Studies In Mathematics:

Classical Groups and Geometric Algebra Larry C. Grove, 1900 Classical groups named so by Hermann Weyl are groups of matrices or quotients of matrix groups by small normal subgroups Thus the story begins as Weyl suggested with Her All embracing Majesty the general linear group $GL_n V$ of all invertible linear transformations of a vector space V over a field F All further groups discussed are either subgroups of $GL_n V$ or closely related quotient groups Most of the classical groups consist of invertible linear transformations that respect a bilinear form having some geometric significance e g a quadratic form a symplectic form etc Accordingly the author develops the required geometric notions albeit from an algebraic point of view as the end results should apply to vector spaces over more or less arbitrary fields finite or infinite The classical groups have proved to be important in a wide variety of venues ranging from physics to geometry and far beyond In recent years they have played a prominent role in the classification of the finite simple groups This text provides a single source for the basic facts about the classical groups and also includes the required geometrical background information from the first principles It is intended for graduate students who have completed standard courses in linear algebra and abstract algebra The author L C Grove is a well known expert who has published extensively in the subject area *Classical Groups and Geometric Algebra*

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Groups Giovanni De Franceschi, Martin W. Liebeck, Eamonn A. O'Brien, 2025-05-05 This book provides a comprehensive coverage of the theory of conjugacy in finite classical groups Given such a classical group G the three fundamental problems considered are the following to list a representative for each conjugacy class of G to describe the centralizer of each representative by giving its group structure and a generating set and to solve the conjugacy problem in G namely given two elements of G establish whether they are conjugate and if so find a conjugating element The book presents comprehensive

theoretical solutions to all three problems and uses these solutions to formulate practical algorithms In parallel to the theoretical work implementations of these algorithms have been developed in Magma These form a critical component of various general algorithms in computational group theory for example computing character tables and solving conjugacy problems in arbitrary finite groups

Clifford Algebras and Lie Theory Eckhard Meinrenken, 2013-02-28 This monograph provides an introduction to the theory of Clifford algebras with an emphasis on its connections with the theory of Lie groups and Lie algebras The book starts with a detailed presentation of the main results on symmetric bilinear forms and Clifford algebras It develops the spin groups and the spin representation culminating in Cartan's famous triality automorphism for the group $\text{Spin } 8$ The discussion of enveloping algebras includes a presentation of Petracci's proof of the Poincaré-Birkhoff-Witt theorem This is followed by discussions of Weil algebras Chern-Weil theory the quantum Weil algebra and the cubic Dirac operator The applications to Lie theory include Duflo's theorem for the case of quadratic Lie algebras multiplets of representations and Dirac induction The last part of the book is an account of Kostant's structure theory of the Clifford algebra over a semisimple Lie algebra It describes his Clifford algebra analogue of the Hopf-Koszul-Samelson theorem and explains his fascinating conjecture relating the Harish-Chandra projection for Clifford algebras to the principal $\mathfrak{sl } 2$ subalgebra Aside from these beautiful applications the book will serve as a convenient and up to date reference for background material from Clifford theory relevant for students and researchers in mathematics and physics

Representations of Hecke Algebras at Roots of Unity Meinolf Geck, Nicolas Jacon, 2011-05-18 The modular representation theory of Iwahori-Hecke algebras and this theory's connection to groups of Lie type is an area of rapidly expanding interest it is one that has also seen a number of breakthroughs in recent years In classifying the irreducible representations of Iwahori-Hecke algebras at roots of unity this book is a particularly valuable addition to current research in this field Using the framework provided by the Kazhdan-Lusztig theory of cells the authors develop an analogue of James' 1970 characteristic-free approach to the representation theory of Iwahori-Hecke algebras in general Presenting a systematic and unified treatment of representations of Hecke algebras at roots of unity this book is unique in its approach and includes new results that have not yet been published in book form It also serves as background reading to further active areas of current research such as the theory of affine Hecke algebras and Cherednik algebras The main results of this book are obtained by an interaction of several branches of mathematics namely the theory of Fock spaces for quantum affine Lie algebras and Ariki's theorem the combinatorics of crystal bases the theory of Kazhdan-Lusztig bases and cells and computational methods This book will be of use to researchers and graduate students in representation theory as well as any researchers outside of the field with an interest in Hecke algebras

Blocks of Finite Groups and Their Invariants Benjamin Sambale, 2014-11-19 Providing a nearly complete selection of up to date methods and results on block invariants with respect to their defect groups this book covers the classical theory pioneered by Brauer the modern theory of fusion systems

introduced by Puig the geometry of numbers developed by Minkowski the classification of finite simple groups and various computer assisted methods In a powerful combination these tools are applied to solve many special cases of famous open conjectures in the representation theory of finite groups Most of the material is drawn from peer reviewed journal articles but there are also new previously unpublished results In order to make the text self contained detailed proofs are given whenever possible Several tables add to the text s usefulness as a reference The book is aimed at experts in group theory or representation theory who may wish to make use of the presented ideas in their research

Linear Algebraic Groups and Finite Groups of Lie Type Gunter Malle, Donna Testerman, 2011-09-08

Originating from a summer school taught by the authors this concise treatment includes many of the main results in the area An introductory chapter describes the fundamental results on linear algebraic groups culminating in the classification of semisimple groups The second chapter introduces more specialized topics in the subgroup structure of semisimple groups and describes the classification of the maximal subgroups of the simple algebraic groups The authors then systematically develop the subgroup structure of finite groups of Lie type as a consequence of the structural results on algebraic groups This approach will help students to understand the relationship between these two classes of groups The book covers many topics that are central to the subject but missing from existing textbooks The authors provide numerous instructive exercises and examples for those who are learning the subject as well as more advanced topics for research students working in related areas

An Introduction to Algebraic Geometry and Algebraic Groups Meinolf Geck, 2013-03-14

An accessible text introducing algebraic geometries and algebraic groups at advanced undergraduate and early graduate level this book develops the language of algebraic geometry from scratch and uses it to set up the theory of affine algebraic groups from first principles Building on the background material from algebraic geometry and algebraic groups the text provides an introduction to more advanced and specialised material An example is the representation theory of finite groups of Lie type The text covers the conjugacy of Borel subgroups and maximal tori the theory of algebraic groups with a BN pair a thorough treatment of Frobenius maps on affine varieties and algebraic groups zeta functions and Lefschetz numbers for varieties over finite fields Experts in the field will enjoy some of the new approaches to classical results The text uses algebraic groups as the main examples including worked out examples instructive exercises as well as bibliographical and historical remarks

Representation Theory of Finite Group Extensions Tullio Ceccherini-Silberstein, Fabio Scarabotti, Filippo Tolli, 2022-11-29

This monograph adopts an operational and functional analytic approach to the following problem given a short exact sequence group extension $1 \rightarrow N \rightarrow G \rightarrow H \rightarrow 1$ of finite groups describe the irreducible representations of G by means of the structure of the group extension This problem has attracted many mathematicians including I Schur A H Clifford and G Mackey and more recently M Isaacs B Huppert Y G Berkovich E M Zhmud and J M G Fell R S Doran The main topics are on the one hand Clifford Theory and the Little Group Method of Mackey and Wigner for induced representations and on the other hand Kirillov s Orbit Method for step 2 nilpotent

groups of odd order which establishes a natural and powerful correspondence between Lie rings and nilpotent groups As an application a detailed description is given of the representation theory of the alternating groups of metacyclic quaternionic dihedral groups and of the finite Heisenberg group The Little Group Method may be applied if and only if a suitable unitary 2 cocycle the Mackey obstruction is trivial To overcome this obstacle unitary projective representations are introduced and corresponding Mackey and Clifford theories are developed The commutant of an induced representation and the relative Hecke algebra is also examined Finally there is a comprehensive exposition of the theory of projective representations for finite Abelian groups which is applied to obtain a complete description of the irreducible representations of finite metabelian groups of odd order

Women in Commutative Algebra Claudia Miller, Janet Striuli, Emily E. Witt, 2022-03-18 This volume features contributions from the Women in Commutative Algebra WICA workshop held at the Banff International Research Station BIRS from October 20-25 2019 run by the Pacific Institute of Mathematical Sciences PIMS The purpose of this meeting was for groups of mathematicians to work on joint research projects in the mathematical field of Commutative Algebra and continue these projects together long distance after its close The chapters include both direct results and surveys with contributions from research groups and individual authors The WICA conference was the first of its kind in the large and vibrant area of Commutative Algebra and this volume is intended to showcase its important results and to encourage further collaboration among marginalized practitioners in the field It will be of interest to a wide range of researchers from PhD students to senior experts

Reviewing **Classical Groups And Geometric Algebra Graduate Studies In Mathematics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Classical Groups And Geometric Algebra Graduate Studies In Mathematics**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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