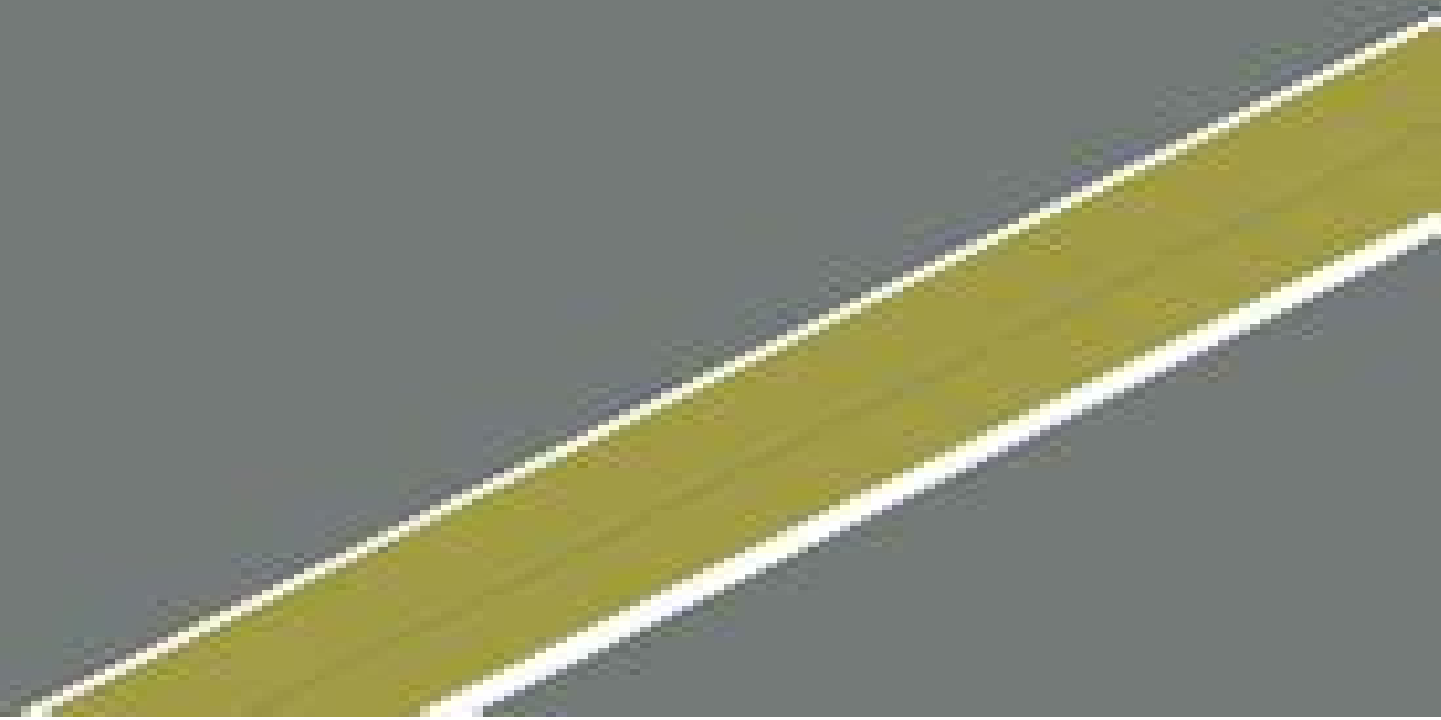


Representations and characters of finite groups

M. J. COLLINS



Representations And Characters Of Finite Groups

Barry Simon



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The Theory of Group Characters and Matrix Representations of Groups Dudley Ernest Littlewood, 2005 Originally written in 1940 this book remains a classical source on representations and characters of finite and compact groups The book starts with necessary information about matrices algebras and groups Then the author proceeds to representations of finite groups Of particular interest in this part of the book are several chapters devoted to representations and characters of symmetric groups and the closely related theory of symmetric polynomials The concluding chapters present the representation theory of

classical compact Lie groups including a detailed description of representations of the unitary and orthogonal groups The book which can be read with minimal prerequisites an undergraduate algebra course allows the reader to get a good understanding of beautiful classical results about group representations

Representations and Characters of Finite Groups Edward Eaton Wendell, 1966 *Representations and Characters of Groups* Gordon Douglas James, This book provides a modern introduction to the representation theory of finite groups

Character Theory of Finite Groups Mark L. Lewis, 2010-09-17 This volume contains a collection of papers from the Conference on Character Theory of Finite Groups held at the Universitat de Valencia Spain on June 3 5 2009 in honor of I Martin Isaacs The topics include permutation groups character theory p groups and group rings The research articles feature new results on large normal abelian subgroups of p groups construction of certain wreath products computing idempotents in group algebras of finite groups and using dual pairs to study representations of cross characteristic in classical groups The expository articles present results on vertex subgroups measuring theorems in permutation groups the development of super character theory and open problems in character theory

Characters of Finite Groups Walter Feit, 1965

Representation Theory of Finite Groups: a Guidebook David A. Craven, 2019-08-30 This book provides an accessible introduction to the state of the art of representation theory of finite groups Starting from a basic level that is summarized at the start the book proceeds to cover topics of current research interest including open problems and conjectures The central themes of the book are block theory and module theory of group representations which are comprehensively surveyed with a full bibliography The individual chapters cover a range of topics within the subject from blocks with cyclic defect groups to representations of symmetric groups Assuming only modest background knowledge at the level of a first graduate course in algebra this guidebook intended for students taking first steps in the field will also provide a reference for more experienced researchers Although no proofs are included end of chapter exercises make it suitable for student seminars

The Representations and Characters of Certain Finite Groups S. J. Ford, 1961

Representations of Finite and Compact Groups Barry Simon, This book is a comprehensive pedagogical presentation of the theory of representation of finite and compact Lie groups that would be of interest to research mathematicians and graduate students interested in group theory and generalizations topological groups and Lie groups Representation theory is discussed on finite groups of rotations permutation groups and classical compact Lie groups The Weyl character formula is proved

Characters of Finite Groups. Part 1 IA. G. Berkovich E. M. Zhmud', 1997-12-02 This book discusses character theory and its applications to finite groups The work places the subject within the reach of people with a relatively modest mathematical background The necessary background exceeds the standard algebra course with respect only to finite groups Starting with basic notions and theorems in character theory the authors present a variety of results on the properties of complex valued characters and applications to finite groups The main themes are degrees and kernels of irreducible characters the class number and the number of nonlinear

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Groups and Characters Larry C. Grove, 2011-09-26 An authoritative full year course on both group theory and ordinary character theory essential tools for mathematics and the physical sciences One of the few treatments available combining both group theory and character theory *Groups and Characters* is an effective general textbook on these two fundamentally connected subjects Presuming only a basic knowledge of abstract algebra as in a first year graduate course the text opens with a review of background material and then guides readers carefully through several of the most important aspects of groups and characters concentrating mainly on finite groups Challenging yet accessible *Groups and Characters* features An extensive collection of examples surveying many different types of groups including Sylow subgroups of symmetric groups affine groups of fields the Mathieu groups and symplectic groups A thorough easy to follow discussion of Polya Redfield enumeration with applications to combinatorics Inclusive explorations of the transfer function and normal complements induction and restriction of characters Clifford theory characters of symmetric and alternating groups Frobenius groups and the Schur index Illuminating accounts of several computational aspects of group theory such as the Schreier Sims algorithm Todd Coxeter coset enumeration and algorithms for generating character tables As valuable as *Groups and Characters* will prove as a textbook for mathematicians it has broader applications With chapters suitable for use as independent review units along with a full bibliography and index it will be a dependable general reference for chemists physicists and crystallographers

Representation Theory of Finite Groups Martin Burrow, 2014-05-10 Representation Theory of Finite Groups is a five chapter text that covers the standard material of representation theory This book starts with an overview of the basic concepts of the subject including group characters representation modules and the rectangular representation The succeeding chapters describe the features of representation theory of rings with identity and finite groups These topics are followed by a discussion of some of the application of the theory of characters along with some classical theorems The last chapter deals with the construction of irreducible representations of groups This book will be of great value to graduate students who wish to acquire some knowledge of representation theory

Groups and Characters Victor E Hill, 2018-12-12 Group representation theory is both elegant and practical with important applications to quantum mechanics spectroscopy crystallography and other fields in the physical sciences This book offers an easy to follow introduction to the theory of groups and of group characters Designed as a rapid survey of the subject it emphasizes examples and applications of the theorems and avoids many of the longer and more difficult proofs The text includes sections that provide the mathematical basis for some of the applications of group theory It also offers numerous exercises some stressing

computation of concrete examples others stressing development of the theory **Group Theory for Physicists** Zhongqi Ma, 2007 This textbook explains the fundamental concepts and techniques of group theory by making use of language familiar to physicists Application methods to physics are emphasized New materials drawn from the teaching and research experience of the author are included This book can be used by graduate students and young researchers in physics especially theoretical physics It is also suitable for some graduate students in theoretical chemistry Characters of Finite Groups I A. G. Berkovich, E. M. Zhmud, 1998-09-29 This book places character theory and its applications to finite groups within the reach of people with a comparatively modest mathematical background The work concentrates mostly on applications of character theory to finite groups The main themes are degrees and kernels of irreducible characters the class number and the number of nonlinear irreducible characters values of irreducible characters characterizations and generalizations of Frobenius groups and generalizations of monomial groups The presentation is detailed and many proofs of known results are new **Representation Theory of Finite Groups** Benjamin Steinberg, 2011-10-23 This book is intended to present group representation theory at a level accessible to mature undergraduate students and beginning graduate students This is achieved by mainly keeping the required background to the level of undergraduate linear algebra group theory and very basic ring theory Module theory and Wedderburn theory as well as tensor products are deliberately avoided Instead we take an approach based on discrete Fourier Analysis Applications to the spectral theory of graphs are given to help the student appreciate the usefulness of the subject A number of exercises are included This book is intended for a 3rd 4th undergraduate course or an introductory graduate course on group representation theory However it can also be used as a reference for workers in all areas of mathematics and statistics **Representations of Reductive Groups** Roger W. Carter, Meinolf Geck, 1998-09-03 This volume provides a very accessible introduction to the representation theory of reductive algebraic groups

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