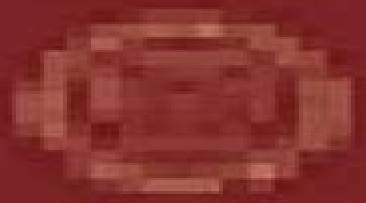


# CHARACTER THEORY OF FINITE GROUPS

I. M. Isaacs

Author of *Character Theory of Groups of Prime Divisibility*

Second Edition, with a new Chapter 17, and a new Appendix  
Revised Edition, with a new Chapter 18, and a new Appendix



# Character Theory Of Finite Groups I Martin Isaacs Ggda

**Dudley Ernest Littlewood**



## **Character Theory Of Finite Groups I Martin Isaacs Ggda:**

**Character Theory of Finite Groups. Isaacs** Irving Martin Isaacs,1976      **Character Theory of Finite Groups I.** Martin Isaacs,1976      Characters of Solvable Groups I. Martin Isaacs,2018-05-23 This book which can be considered as a sequel of the author's famous book *Character Theory of Finite Groups* concerns the character theory of finite solvable groups and other groups that have an abundance of normal subgroups. It is subdivided into three parts: theory, character correspondences, and  $M$  groups. The theory section contains an exposition of D Gajendragadkar's special characters and it includes various extensions, generalizations, and applications of his work. The character correspondences section proves the McKay character counting conjecture and the Alperin weight conjecture for solvable groups and it constructs a canonical McKay bijection for odd order groups. In addition to a review of some basic material on  $M$  groups, the third section contains an exposition of the use of symplectic modules for studying  $M$  groups. In particular, an accessible presentation of E C Dade's deep results on monomial characters of odd prime power degree is included. Very little of this material has previously appeared in book form and much of it is based on the author's research. By reading a clean and accessible presentation written by the leading expert in the field, researchers and graduate students will be inspired to learn and work in this area that has fascinated the author for decades.

**Character Theory of Finite Groups** Bertram Huppert,2011-04-20 No detailed description available for *Character Theory of Finite Groups*

**Representations and Characters of Finite Groups** M. J. Collins,1990-03-22 Representation theory and character theory have proved essential in the study of finite simple groups since their early development by Frobenius. The author begins by presenting the foundations of character theory in a style accessible to advanced undergraduates that requires only a basic knowledge of group theory and general algebra. This theme is then expanded in a self-contained account providing an introduction to the application of character theory to the classification of simple groups. The book follows both strands of the theory: the exceptional characteristics of Suzuki and Feit and the block character theory of Brauer and includes refinements of original proofs that have become available as the subject has grown.

**Representations and Characters of Groups** Gordon James, Martin Liebeck,2001-10-18 This book provides a modern introduction to the representation theory of finite groups. Now in its second edition, the authors have revised the text and added much new material. The theory is developed in terms of modules since this is appropriate for more advanced work but considerable emphasis is placed upon constructing characters. Included here are the character tables of all groups of order less than 32 and all simple groups of order less than 1000. Applications covered include Burnside's  $p^a q^b$  theorem, the use of character theory in studying subgroup structure and permutation groups, and how to use representation theory to investigate molecular vibration. Each chapter features a variety of exercises with full solutions provided at the end of the book. This will be ideal as a course text in representation theory and in view of the applications will be of interest to chemists and physicists as well as mathematicians.

*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 irreducible characters values of irreducible characters characterizations and generalizations of Frobenius groups and generalizations and applications of monomial groups The presentation is detailed and many proofs of known results are new Most of the results in the book are presented in monograph form for the first time Numerous exercises offer additional information on the topics and help readers to understand the main concepts and results Some Problems in the Character Theory of Finite Groups Geoffrey Raymond Robinson, 1981

**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

**Representations and Characters of Groups** Gordon James, Martin Liebeck, 2001-10-18 This is the second edition of the popular textbook on representation theory of finite groups The authors have revised the text greatly and included new chapters on Characters of  $GL_2(q)$  and Permutations and Characters The theory is developed in terms of modules since this is appropriate for more advanced work but considerable emphasis is placed upon constructing characters The character tables of many groups are given including all groups of order less than 32 and all but one of the simple groups of order less than 1000 Each chapter is accompanied by a variety of exercises and full solutions to all the exercises are provided at the end of the book **Character Theory of Finite Groups** Caroline Lassueur, 2021 *Character Theory and the McKay Conjecture*

Gabriel Navarro, 2018-04-26 Presents contemporary character theory of finite groups from the basics to the state of the art with new refined proofs **Introduction to the Theory of Finite Groups** Walter Ledermann, 1964 **Characters of Finite Groups** Yakov G. Berkovich, I. A. G. Berkovich, Lev S. Kazarin, E. M. Zhmud', 2018 This updated edition of this classic book is devoted to ordinary representation theory and is addressed to finite group theorists intending to study and apply character theory It contains many exercises and examples and the list of problems contains

**Representation and Character Theory for Groups of Finite Order** Richard Vaughn Olson, 1965 *Finite Groups* Daniel

Gorenstein, 2025-04-21 it is required reading for anyone who wishes to study the subject Mathematical Reviews The theory of finite simple groups enjoyed a period of spectacular activity in the 1950s and 1960s The first edition of Gorenstein's book

was published in 1968 at the time of some of the first major classification results The second edition was published in 1980 when it was clear that the classification was understood and the proof was within reach Gorenstein's treatment of the subject proved prescient as many of the developments between the two editions could be seen as continuations of the material in the book Even now the book remains one of the best sources for an introduction to finite groups and the classification of the simple groups Gorenstein's insight provides a guiding light through the many pages that have been dedicated to the proof

*The Theory of Group Characters and Matrix Representations of Groups* Dudley Ernest Littlewood, 1977 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 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** Agyingi Collins Amburo, 2012-09-20 *Characters of Finite Groups* Walter Feit, 1965

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