

CHARACTER THEORY OF FINITE GROUPS

I. M. Isaacs

Author of *Character Theory of Groups of Prime Divisibility*

Revised and Expanded Edition



Character Theory Of Finite Groups I Martin Isaacs

Robert S. Borden



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Character Theory of Finite Groups I. Martin Isaacs, 2006-11-21 Character theory is a powerful tool for understanding finite groups. In particular, the theory has been a key ingredient in the classification of finite simple groups. Characters are also of interest in their own right and their properties are closely related to properties of the structure of the underlying group. The book begins by developing the module theory of complex group algebras. After the module theoretic foundations are laid in the first chapter, the focus is primarily on characters. This enhances the accessibility of the material for students, which was a major consideration in the writing. Also, with students in mind, a large number of problems are included, many of them quite challenging. In addition to the development of the basic theory using a cleaner notation than previously, a number of more specialized topics are covered with accessible presentations. These include projective representations, the basics of the Schur index, irreducible character degrees, and group structure, complex linear groups, exceptional characters, and a fairly extensive introduction to blocks and Brauer characters. This is a corrected reprint of the original 1976 version, later reprinted by Dover. Since 1976, it has become the standard reference for character theory, appearing in the bibliography of almost every research paper in the subject. It is largely self-contained, requiring of the reader only the most basic facts of linear algebra, group theory, Galois theory, and ring and module theory. *Character Theory of Finite Groups*. Isaacs, Irving 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. [Spectral Theory of Random Matrices](#) Vyacheslav L. Girko, 2016-08-23 *Spectral Theory of Random Matrices*

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

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In a world driven by information and connectivity, the power of words has become much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Character Theory Of Finite Groups I Martin Isaacs**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book's key themes, examine its writing style, and analyze its overall affect readers.

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