



Character Theory of Finite Groups (Dover Books on Mathematics)

By I. Martin Isaacs

Dover Publications. Paperback. Book Condition: New. Paperback. 336 pages. Dimensions: 8.2in. x 5.4in. x 0.7in. The book is a pleasure to read. There is no question but that it will become, and deserves to be, a widely used textbook and reference. *Bulletin of the American Mathematical Society*. Character theory provides a powerful tool for proving theorems about finite groups. In addition to dealing with techniques for applying characters to pure group theory, a large part of this book is devoted to the properties of the characters themselves and how these properties reflect and are reflected in the structure of the group. Chapter 1 consists of ring theoretic preliminaries. Chapters 2 to 6 and 8 contain the basic material of character theory, while Chapter 7 treats an important technique for the application of characters to group theory. Chapter 9 considers irreducible representations over arbitrary fields, leading to a focus on subfields of the complex numbers in Chapter 10. In Chapter 15 the author introduces Brauer's theory of blocks and modular characters. Remaining chapters deal with more specialized topics, such as the connections between the set of degrees of the irreducible characters and structure of a group. Following each chapter is a selection...



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