



Groups and Characters (Pure and Applied Mathematics: A Wiley Series of Texts, Monographs and Tracts)

Larry C. Grove

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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.

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