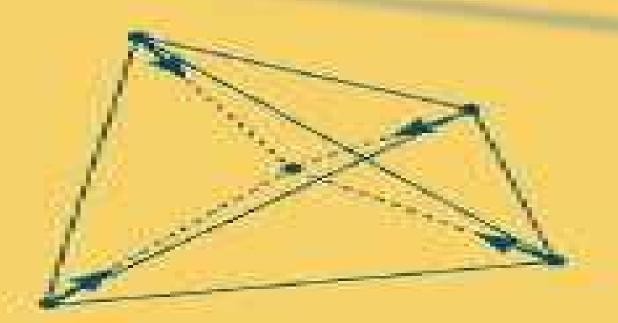
Second Edition

Representations and Characters of Groups

Gordon James & Hartin Liebeck



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Representations And Characters Of Groups

Gordon James

Representations And Characters Of Groups:

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Dirichlet's result on primes in arithmetic progressions are given as an application Examples of integral representations of fi nite groups are already detailed at a quite early stage where appropriate so that the more systematic treatment of lattices over orders is natural After that the necessary number theory and homological algebra is developed as far as needed Maximal as well as hereditary orders are introduced and the Auslander Buchsbaum theorem is proved The Jordan Zassenhaus theorem on the fi niteness of lattices in a given vector space is fully proved Then the development and properties of class groups of orders is a first focus As a further highlight Swan's example of a stably free but not free ideal over the integral group ring of the generalised quaternion group of order 32 is developed in great detail A student friendly introduction to ordinary representation theory Many examples and exercises including solutions for some of them make the book well suited for self study Leads coherently from ordinary character theory to the integral representation theory of lattices over orders Several topics appear for the first time in a textbook such as Sin Willems approach to self dual simple modules and Swan's example of a stably free non free ideal 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 An Introduction to the Representation Theory of Groups Emmanuel Kowalski, 2014-08-28 Representation theory is an important part of modern mathematics not only as a subject in its own right but also as a tool for many applications It provides a means for exploiting symmetry making it particularly useful in number theory algebraic geometry and differential geometry as well as classical and modern physics. The goal of this book is to present in a motivated manner the basic formalism of representation theory as well as some important applications. The style is intended to allow the reader to gain access to the insights and ideas of representation theory not only to verify that a certain result is true but also to explain why it is important and why the proof is natural The presentation emphasizes the fact that the ideas of

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theory of the compact semisimple Lie groups is exposed This is aimed at research mathematicians and graduate students studying group theory **Basic Notions of Algebra** Igor R. Shafarevich,2005-04-13 Wholeheartedly recommended to every student and user of mathematics this is an extremely original and highly informative essay on algebra and its place in modern mathematics and science From the fields studied in every university maths course through Lie groups to cohomology and category theory the author shows how the origins of each concept can be related to attempts to model phenomena in physics or in other branches of mathematics Required reading for mathematicians from beginners to experts **Theory Of Group Representations And Applications** Ryszard Raczka, Asim Orhan Barut, 1986-11-01 The material collected in this book originated from lectures given by authors over many years in Warsaw Trieste Schladming Istanbul Goteborg and Boulder There is no other comparable book on group representations neither in mathematical nor in physical literature and it is hoped that this book will prove to be useful in many areas of research It is highly recommended as a textbook for an advanced course in mathematical physics on Lie algebras Lie groups and their representations

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