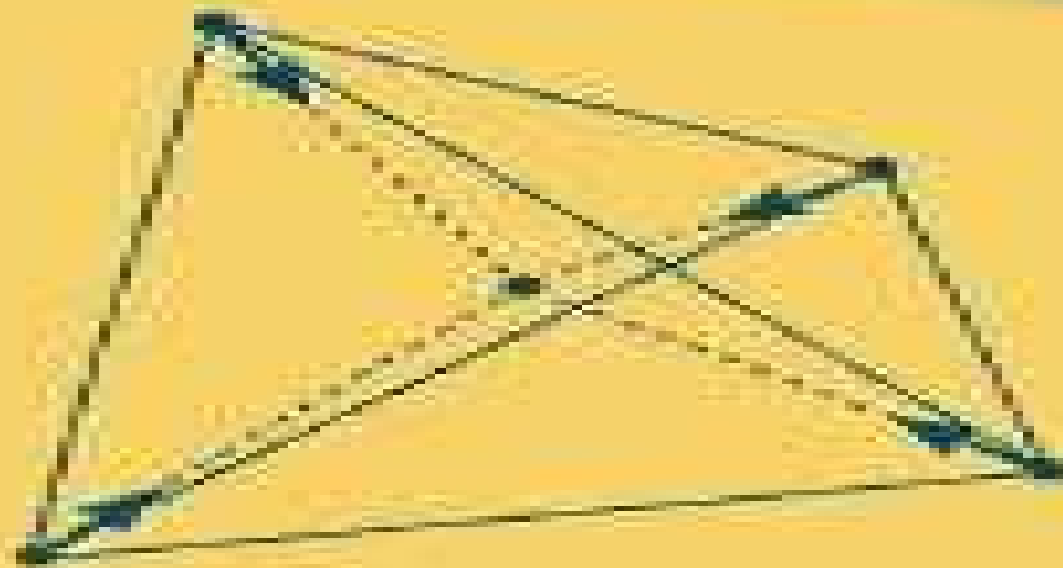


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Representations and Characters of Groups

Gordon James & Martin Liebeck



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Representations And Characters Of Groups

Gordon James



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The Theory of Group Characters and Matrix Representations of Groups Dudley Ernest Littlewood, 2005 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 Victor E Hill, 2018-12-12 Group representation theory is both elegant and practical with important applications to quantum mechanics spectroscopy crystallography and other fields in the physical sciences This book offers an easy to follow introduction to the theory of groups and of group characters Designed as a rapid survey of the subject it emphasizes examples and applications of the theorems and avoids many of the longer and more difficult proofs The text includes sections that provide the mathematical basis for some of the applications of group theory It also offers numerous exercises some stressing computation of concrete examples others stressing development of the theory

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Representations and Characters of Finite Groups Michael John Collins, 1990

Groups, Representations, and Characters Victor E. Hill, 1976

Characters of Groups and Lattices over Orders Alexander Zimmermann, 2022-01-19 This is the first textbook leading coherently from classical character theory to the theory of lattices over orders and integral representations of finite groups Character theory is developed in a highly pedagogical way including many examples and exercises covering at once the first definitions up to Clifford theory Brauer's induction theorem and the splitting field theorem as well as self dual simple modules allowing bilinear forms This latter part is done step by step using the approach given by Sin and Willems Dirichlet characters and

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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.

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

representation theory appear sometimes in slightly different ways in many contexts Thus the book discusses in some detail the fundamental notions of representation theory for arbitrary groups It then considers the special case of complex representations of finite groups and discusses the representations of compact groups in both cases with some important applications There is a short introduction to algebraic groups as well as an introduction to unitary representations of some noncompact groups The text includes many exercises and examples Basics of Representation Theory Udayan

Bhattacharya,2025-02-20 Delve into the captivating world of Basics of Representation Theory a comprehensive guide designed for students researchers and enthusiasts eager to explore the intricate symmetries and structures that underpin modern mathematics Our book offers a detailed introduction to foundational concepts providing a solid understanding of group actions linear representations and character theory From there it explores the algebraic structures of irreducible representations breaking down the decomposition into irreducible components and examining the properties of characters Readers will journey through diverse topics including the representation theory of symmetric groups Lie groups and algebraic groups as well as advanced topics such as the representation theory of finite groups the Langlands program and applications in quantum mechanics and number theory With a wealth of examples illustrations and exercises Basics of Representation Theory ensures a hands on approach to learning encouraging practical exploration and problem solving The book also includes numerous references and further reading suggestions for those who wish to delve deeper into specific topics Written in a clear and accessible style this book caters to all levels from undergraduate students encountering representation theory for the first time to experienced researchers seeking fresh insights With its comprehensive coverage and diverse applications Basics of Representation Theory is an invaluable resource for anyone interested in the beauty and depth of this field *The Theory of Group Characters and Matrix Representations of Groups* Dudley E. Littlewood,2006

Group Theory: An Intuitive Approach Ronald Mirman,1995-06-09 A thorough introduction to group theory this highly problem oriented book goes deeply into the subject to provide a fuller understanding than available anywhere else The book aims at not only teaching the material but also helping to develop the skills needed by a researcher and teacher possession of which will be highly advantageous in these very competitive times particularly for those at the early insecure stages of their careers And it is organized and written to serve as a reference to provide a quick introduction giving the essence and vocabulary useful for those who need only some slight knowledge those just learning as well as researchers and especially for the latter it provides a grasp and often material and perspective not otherwise available Representations of Finite Groups C. Musili,1993-01-01 *Representations of Finite and Compact Groups* Barry Simon,1996 This text is a comprehensive pedagogical presentation of the theory of representation of finite and compact Lie groups It considers both the general theory and representation of specific groups Representation theory is discussed on the following types of groups finite groups of rotations permutation groups and classical compact semisimple Lie groups Along the way the structure 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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