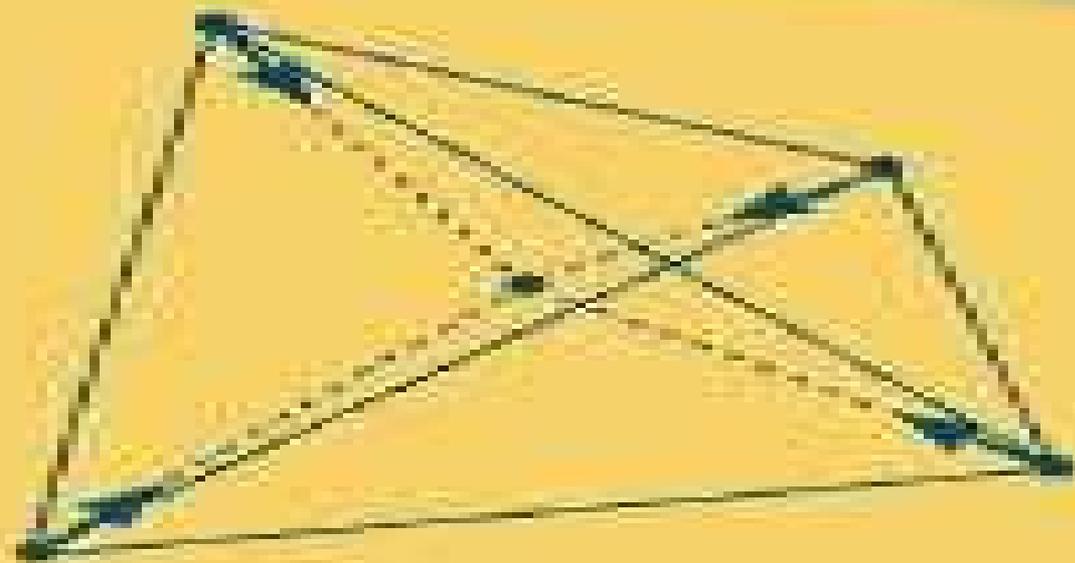


**Second Edition**

# Representations and Characters of Groups

Gordon James & Martin Liebeck



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# Representations Of Groups

**AW Chickering**



## Representations Of Groups:

**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

### **Group Representations**

R.L. Lipsman, 2006-08-01

### **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

*Representations and Characters of Groups* Gordon Douglas James, Martin W. Liebeck, 2001-10-18 This book provides a modern introduction to the representation theory of finite groups Now in its second edition the authors have revised the text and added much new material The theory is developed in terms of modules since this is appropriate for more advanced work but considerable emphasis is placed upon constructing characters Included here are the character tables of all groups of order less than 32 and all simple groups of order less than 1000 Applications covered include Burnside's  $p^a q^b$  theorem the use of character theory in studying subgroup structure and permutation groups and how to use representation theory to investigate molecular vibration Each chapter features a variety of exercises with full solutions provided at the end of the book This will be ideal as a course text in representation theory and in view of the applications will be of interest to chemists and physicists as well as mathematicians

### **Representation Theory of Finite Groups** Martin

Burrow, 2014-05-10 Representation Theory of Finite Groups is a five chapter text that covers the standard material of representation theory This book starts with an overview of the basic concepts of the subject including group characters representation modules and the rectangular representation The succeeding chapters describe the features of representation theory of rings with identity and finite groups These topics are followed by a discussion of some of the application of the theory of characters along with some classical theorems The last chapter deals with the construction of irreducible representations of groups This book will be of great value to graduate students who wish to acquire some knowledge of representation theory

### **Representations of Algebraic Groups** Jens Carsten Jantzen, 2003-01-01 Now back in print by the

AMS this is a significantly revised edition of a book originally published in 1987 by Academic Press This book gives the reader an introduction to the theory of algebraic representations of reductive algebraic groups To develop appropriate techniques the first part of the book is an introduction to the general theory of representations of algebraic group schemes Here the author describes important basic notions induction functors cohomology quotients Frobenius kernels and reduction mod  $p$  among others The second part of the book is devoted to the representation theory of reductive algebraic groups It includes topics such as the description of simple modules vanishing theorems the Borel Bott Weil theorem and Weyl's character formula and Schubert schemes and line bundles on them For this revised edition the author added nearly 150 pages of new material describing some later developments among them Schur algebras Lusztig's conjecture and Kazhdan Lusztig polynomials tilting modules and representations of quantum groups He also made major revisions to parts of the old text Jantzen's book continues to be the ultimate source of information on representations of algebraic groups in finite characteristics It is suitable for graduate students and research mathematicians interested in algebraic groups and their representations

**Groups and Representations** J. L. Alperin, Rowen B Bell, 1995-09-01 Matrix Representations of Groups Morris Newman, 1968 **An Introduction to the Representation Theory of Groups** Emmanuel Kowalski, 2025-08-27 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

**Linear Representations of Groups** Ernest B. Vinberg, 2010-11-23 This book gives an exposition of the fundamentals of the theory of linear representations of finite and compact groups as well as elements of the theory of linear representations of Lie groups As an application we derive the Laplace spherical functions The book is based on lectures that I delivered in the framework of the experimental program at the Mathematics Mechanics Faculty of Moscow State University and at the Faculty of Professional Skill Improvement My aim has been to give as simple and detailed an account as possible of the problems considered The book therefore makes no claim to completeness Also it can in no way give a representative picture of the modern state of the field under study as does

for example the monograph of A A Kirillov 3 For a more complete acquaintance with the theory of representations of finite groups we recommend the book of C W Curtis and I Reiner 2 and for the theory of representations of Lie groups that of M A Naimark 6 Introduction The theory of linear representations of groups is one of the most widely plied branches of algebra Practically every time that groups are encountered their linear representations play an important role In the theory of groups itself linear representations are an irreplaceable source of examples and a tool for investigating groups In the introduction we discuss some examples and en route we introduce a number of notions of representation theory 0 Basic Notions 0 1

**Representation Theory of Symmetric Groups** Pierre-Loic Meliot, 2017-05-12 Representation Theory of Symmetric Groups is the most up to date abstract algebra book on the subject of symmetric groups and representation theory Utilizing new research and results this book can be studied from a combinatorial algorithmic or algebraic viewpoint This book is an excellent way of introducing today's students to representation theory of the symmetric groups namely classical theory From there the book explains how the theory can be extended to other related combinatorial algebras like the Iwahori Hecke algebra In a clear and concise manner the author presents the case that most calculations on symmetric group can be performed by utilizing appropriate algebras of functions Thus the book explains how some Hopf algebras symmetric functions and generalizations can be used to encode most of the combinatorial properties of the representations of symmetric groups Overall the book is an innovative introduction to representation theory of symmetric groups for graduate students and researchers seeking new ways of thought

**Representations of Finite and Compact Groups** Barry Simon, This book is a comprehensive pedagogical presentation of the theory of representation of finite and compact Lie groups that would be of interest to research mathematicians and graduate students interested in group theory and generalizations topological groups and Lie groups Representation theory is discussed on finite groups of rotations permutation groups and classical compact Lie groups The Weyl character formula is proved

**The Theory of Group Representations** Francis D. Murnaghan, 1949

**Theory Of Groups And Symmetries: Representations Of Groups And Lie Algebras, Applications** Alexey P Isaev, Valery A Rubakov, 2020-07-16 This book is a sequel to the book by the same authors entitled Theory of Groups and Symmetries Finite Groups Lie Groups and Lie Algebras The presentation begins with the Dirac notation which is illustrated by boson and fermion oscillator algebras and also Grassmann algebra Then detailed account of finite dimensional representations of groups  $SL(2, \mathbb{C})$  and  $SU(2)$  and their Lie algebras is presented The general theory of finite dimensional irreducible representations of simple Lie algebras based on the construction of highest weight representations is given The classification of all finite dimensional irreducible representations of the Lie algebras of the classical series  $\mathfrak{sl}(n, \mathbb{C})$ ,  $\mathfrak{so}(n, \mathbb{C})$  and  $\mathfrak{sp}(2r, \mathbb{C})$  is exposed Finite dimensional irreducible representations of linear groups  $SL(N, \mathbb{C})$  and their compact forms  $SU(N)$  are constructed on the basis of the Schur Weyl duality A special role here is played by the theory of representations of the symmetric group algebra  $\mathbb{C} S_r$  Schur Frobenius theory Okounkov Vershik approach based on combinatorics of Young

diagrams and Young tableaux Similar construction is given for pseudo orthogonal groups  $O(p, q)$  and  $SO(p, q)$  including Lorentz groups  $O(1, N-1)$  and  $SO(1, N-1)$  and their Lie algebras as well as symplectic groups  $Sp(p, q)$  The representation theory of Brauer algebra centralizer algebra of  $SO(p, q)$  and  $Sp(p, q)$  groups in tensor representations is discussed Finally the covering groups  $Spin(p, q)$  for pseudo orthogonal groups  $SO(p, q)$  are studied For this purpose Clifford algebras in spaces  $R(p, q)$  are introduced and representations of these algebras are discussed

**Groups and Symmetries** Yvette Kosmann-Schwarzbach, 2022-07-16

Combines material from many areas of mathematics including algebra geometry and analysis so students see connections between these areas Applies material to physics so students appreciate the applications of abstract mathematics Assumes only linear algebra and calculus making an advanced subject accessible to undergraduates Includes 142 exercises many with hints or complete solutions so text may be used in the classroom or for self study

*Representations of Groups* Klaus Lux, 2010 The representation theory of finite groups has seen rapid growth in recent years with the development of efficient algorithms and computer algebra systems This is the first book to provide an introduction to the ordinary and modular representation theory of finite groups with special emphasis on the computational aspects of the subject Evolving from courses taught at Aachen University this well paced text is ideal for graduate level study The authors provide over 200 exercises both theoretical and computational and include worked examples using the computer algebra system GAP These make the abstract theory tangible and engage students in real hands on work GAP is freely available from [www.gap-system.org](http://www.gap-system.org) and readers can download source code and solutions to selected exercises from the book's web page

*Representations of Finite Groups* Hiroshi Nagao, Yukio Tsushima, 2014-05-10 *Representations of Finite Groups* provides an account of the fundamentals of ordinary and modular representations This book discusses the fundamental theory of complex representations of finite groups Organized into five chapters this book begins with an overview of the basic facts about rings and modules This text then provides the theory of algebras including theories of simple algebras Frobenius algebras crossed products and Schur indices with representation theoretic versions of them Other chapters include a survey of the fundamental theory of modular representations with emphasis on Brauer characters This book discusses as well the module theoretic representation theory due to Green and includes some topics such as Burnside's theorem and Scott modules The final chapter deals with the fundamental results of Brauer on blocks and Fong's theory of covering and includes some approaches to them This book is a valuable resource for readers who are interested in the various approaches to the study of the representations of groups

**Representations of Finite and Lie Groups** Charles Benedict Thomas, 2004 This book provides an introduction to representations of both finite and compact groups The proofs of the basic results are given for the finite case but are so phrased as to hold without change for compact topological groups with an invariant integral replacing the sum over the group elements as an averaging tool Among the topics covered are the relation between representations and characters the construction of irreducible representations induced representations and Frobenius reciprocity Special

emphasis is given to exterior powers with the symmetric group  $S_n$  as an illustrative example The book concludes with a chapter comparing the representations of the finite group  $SL_2(\mathbb{F}_p)$  and the non compact Lie group  $SL_2(\mathbb{R})$

**Introduction to the Theory of Banach Representations of Groups** Юрий Ильич Любич, 1988 [Linear Representations of Finite Groups](#) Jean-Pierre Serre, 2012-12-06 This book consists of three parts rather different in level and purpose The first part was originally written for quantum chemists It describes the correspondence due to Frobenius between linear representations and characters This is a fundamental result of constant use in mathematics as well as in quantum chemistry or physics I have tried to give proofs as elementary as possible using only the definition of a group and the rudiments of linear algebra The examples Chapter 5 have been chosen from those useful to chemists The second part is a course given in 1966 to second year students of l'Ecole Normale It completes the first on the following points a degrees of representations and integrality properties of characters Chapter 6 b induced representations theorems of Artin and Brauer and applications Chapters 7 11 c rationality questions Chapters 12 and 13 The methods used are those of linear algebra in a wider sense than in the first part group algebras modules noncommutative tensor products semisimple algebras The third part is an introduction to Brauer theory passage from characteristic 0 to characteristic  $p$  and conversely I have freely used the language of abelian categories projective modules Grothendieck groups which is well suited to this sort of question The principal results are a The fact that the decomposition homomorphism is surjective all irreducible representations in characteristic  $p$  can be lifted virtually i e in a suitable Grothendieck group to characteristic 0

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