Representations of Finite Groups of Lie Type

Second Edition

FRANCOIS DIGNE and JEAN MICHEL

LONDON MATHEMATICAL SOCIETY

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Representations Of Finite And Lie Groups

Claudio Procesi

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Representations of Finite Groups of Lie Type François Digne,Jean Michel,2020-03-05 An up to date and self contained introduction based on a graduate course taught at the University of Paris *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 **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 Sn as an illustrative example The book concludes with a chapter comparing the representations of the finite group SL2 p and the non compact Lie group SL2 P Representations Of Finite And Lie Groups Charles B Thomas,2004-10-08 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 Sn as an illustrative example The book concludes with a chapter comparing the representations of the finite group SL2 p and the non compact Lie group SL2 P a **Representations of Finite Groups of Lie Type** François Digne,Jean Michel,1991-04-26 The authors aim to treat the basic theory of representations of finite groups of Lie type such as linear unitary orthogonal and symplectic groups They emphasize the Curtis Alvis duality map and Mackey s theorem and the results that can be deduced from it They also discuss Deligne Lusztig induction This will be the first elementary treatment of this material in book form and will be welcomed by beginning graduate students in algebra **Modular Representations of Finite Groups of Lie Type** James E. Humphreys,2006 A comprehensive treatment of the representation theory of finite groups of Lie type over a field of the defining prime characteristic Modular Representations of Finite Groups of Lie Type James E. Humphreys,2006 Comprehensive treatment of the representation theory of finite groups of Lie type over a field of the defining prime characteristic Groups and Symmetries Yvette Kosmann-Schwarzbach,2009-10-16 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 Finite Groups of Lie Type* François Digne,Jean Michel,2014-05-14 In this book which is based on a graduate course taught at the University of Paris the authors aim to treat the basic theory of representations of finite groups of Lie type *Representations of Compact Lie Groups* T. Bröcker,T.tom Dieck,2013-03-14 This book is based on several courses given by the authors since 1966 It introduces the reader to the representation theory of compact Lie groups We have chosen a geometrical and analytical approach since we feel that this is the easiest way to motivate and establish the theory and to indicate relations to other branches of mathematics Lie algebras though mentioned occasionally are not used in an essential way The material as well as its presentation are classical one might say that the foundations were known to Hermann Weyl at least 50 years ago Prerequisites to the book are standard linear algebra and analysis including Stokes theorem for manifolds The book can be read by German students in their third year or by first year graduate students in the United States Generally speaking the book should be useful for mathematicians with geometric interests and we hope for physicists At the end of each section the reader will find a set of exercises These vary in character Some ask the reader to verify statements used in the text some contain additional information and some present examples and counter examples We advise the reader at least to read through the exercises **Lie Groups, Lie Algebras, and Representations** Brian Hall,2015-05-11 This textbook treats Lie groups Lie algebras and their representations in an elementary but fully rigorous fashion requiring minimal prerequisites In particular the theory of matrix Lie groups and their Lie algebras is developed using only linear algebra and more motivation and intuition for proofs is provided than in most classic texts on the subject In addition to its accessible treatment of the basic theory of Lie groups and Lie algebras the book is also noteworthy for including a treatment of the Baker Campbell Hausdorff formula and its use in place of the Frobenius theorem to establish deeper results about the relationship between Lie groups and Lie algebras motivation for the machinery of roots weights and the Weyl group via a concrete and detailed exposition of the representation theory of sl 3 C an unconventional definition of semisimplicity that allows for a rapid development of the structure theory of semisimple Lie algebras a self contained construction of the representations of compact groups independent of Lie algebraic arguments The second edition of Lie Groups Lie Algebras and Representations contains many substantial improvements and additions among them an entirely new part devoted to the structure and representation theory of compact Lie groups a complete derivation of the main properties of root systems the construction of finite dimensional representations of semisimple Lie algebras has been elaborated a treatment of universal enveloping algebras including a proof of the Poincar Birkhoff Witt theorem and the existence of Verma modules complete proofs of the Weyl character formula the Weyl dimension formula and the Kostant multiplicity formula Review of the first edition This is an excellent book

It deserves to and undoubtedly will become the standard text for early graduate courses in Lie group theory an important addition to the textbook literature it is highly recommended The Mathematical Gazette **Representations of Finite Groups of Lie Type** François Digne,Jean Michel,2020-03-05 On its original publication this book provided the first elementary treatment of representation theory of finite groups of Lie type in book form This second edition features new material to reflect the continuous evolution of the subject including entirely new chapters on Hecke algebras Green functions and Lusztig families The authors cover the basic theory of representations of finite groups of Lie type such as linear unitary orthogonal and symplectic groups They emphasise the Curtis Alvis duality map and Mackey s theorem and the results that can be deduced from it before moving on to a discussion of Deligne Lusztig induction and Lusztig s Jordan decomposition theorem for characters The book contains the background information needed to make it a useful resource for beginning graduate students in algebra as well as seasoned researchers It includes exercises and explicit examples *Lie Groups, Lie Algebras, and Representations* Brian C. Hall,2003-08-07 This book provides an introduction to Lie groups Lie algebras and repre sentation theory aimed at graduate students in mathematics and physics Although there are already several excellent books that cover many of the same topics this book has two distinctive features that I hope will make it a useful addition to the literature First it treats Lie groups not just Lie alge bras in a way that minimizes the amount of manifold theory needed Thus I neither assume a prior course on differentiable manifolds nor provide a con densed such course in the beginning chapters Second this book provides a gentle introduction to the machinery of semi simple groups and Lie algebras by treating the representation theory of SU 2 and SU 3 in detail before going to the general case This allows the reader to see roots weights and the Weyl group in action in simple cases before confronting the general theory The standard books on Lie theory begin immediately with the general case a smooth manifold that is also a group The Lie algebra is then defined as the space of left invariant vector fields and the exponential mapping is defined in terms of the flow along such vector fields This approach is undoubtedly the right one in the long run but it is rather abstract for a reader encountering such things for the first time *Lie Groups, Lie Algebras, and Their Representations* V.S. Varadarajan,2013-04-17 This book has grown out of a set of lecture notes I had prepared for a course on Lie groups in 1966 When I lectured again on the subject in 1972 I revised the notes substantially It is the revised version that is now appearing in book form The theory of Lie groups plays a fundamental role in many areas of mathematics There are a number of books on the subject currently available most notably those of Chevalley Jacobson and Bourbaki which present various aspects of the theory in great depth However 1 feei there is a need for a single book in English which develops both the algebraic and analytic aspects of the theory and which goes into the representation theory of semi simple Lie groups and Lie algebras in detail This book is an attempt to fiii this need It is my hope that this book will introduce the aspiring graduate student as well as the nonspecialist mathematician to the fundamental themes of the subject I have made no attempt to discuss infinite dimensional representations This is a very

active field and a proper treatment of it would require another volume if not more of this size However the reader who wants to take up this theory will find that this book prepares him reasonably well for that task   *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 nite and compact groups as well as elements of the t ory 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 eld under study as does for example the monograph of A A Kirillov 3 For a more complete acquaintance with the theory of representations of nite 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 pliedbranchesof algebra Practically every timethatgroupsareencountered 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 William Fulton,Joe Harris,2013-12-01 The primary goal of these lectures is to introduce a beginner to the finite dimensional representations of Lie groups and Lie algebras Since this goal is shared by quite a few other books we should explain in this Preface how our approach differs although the potential reader can probably see this better by a quick browse through the book Representation theory is simple to define it is the study of the ways in which a given group may act on vector spaces It is almost certainly unique however among such clearly delineated subjects in the breadth of its interest to mathematicians This is not surprising group actions are ubiquitous in 20th century mathematics and where the object on which a group acts is not a vector space we have learned to replace it by one that is e g a cohomology group tangent space etc As a consequence many mathematicians other than specialists in the field or even those who think they might want to be come in contact with the subject in various ways It is for such people that this text is designed To put it another way we intend this as a book for beginners to learn from and not as a reference This idea essentially determines the choice of material covered here As simple as is the definition of representation theory given above it fragments considerably when we try to get more specific   *Lie Groups* Claudio Procesi,2007-10-17 Lie groups has been an increasing area of focus and rich research since the middle of the 20th century Procesi s masterful approach to Lie groups through invariants and representations gives the reader a comprehensive treatment of the classical groups along with an extensive introduction to a wide range of topics associated with Lie groups symmetric functions theory of algebraic forms Lie algebras tensor algebra and symmetry semisimple Lie algebras algebraic groups group representations invariants Hilbert theory and binary forms

with fields ranging from pure algebra to functional analysis Key to this unique exposition is the large amount of background material presented so the book is accessible to a reader with relatively modest mathematical background Historical information examples exercises are all woven into the text Lie Groups An Approach through Invariants and Representations will engage a broad audience including advanced undergraduates graduates mathematicians in a variety of areas from pure algebra to functional analysis and mathematical physics   *Lie Groups and Their Representations* Izrail' Moiseevich Gel'fand,1975   **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 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 s n C so n C and sp 2r C is exposed Finite dimensional irreducible representations of linear groups SL N 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 C Sr 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 Rp q are introduced and representations of these algebras are discussed   **The Character Theory of Finite Groups of Lie Type** Meinolf Geck,Gunter Malle,2020-02-27 Through the fundamental work of Deligne and Lusztig in the 1970s further developed mainly by Lusztig the character theory of reductive groups over finite fields has grown into a rich and vast area of mathematics It incorporates tools and methods from algebraic geometry topology combinatorics and computer algebra and has since evolved substantially With this book the authors meet the need for a contemporary treatment complementing in core areas the well established books of Carter and Digne Michel Focusing on applications in finite group theory the authors gather previously scattered results and allow the reader to get to grips with the large body of literature available on the subject covering topics such as regular embeddings the Jordan decomposition of characters d Harish Chandra theory and Lusztig induction for unipotent characters Requiring only a modest background in algebraic geometry this useful reference is suitable for beginning graduate students as well as researchers

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Table of Contents Representations Of Finite And Lie Groups

1. Understanding the eBook Representations Of Finite And Lie Groups
    - The Rise of Digital Reading Representations Of Finite And Lie Groups
    - Advantages of eBooks Over Traditional Books
2. Identifying Representations Of Finite And Lie Groups
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Representations Of Finite And Lie Groups
    - User-Friendly Interface
4. Exploring eBook Recommendations from Representations Of Finite And Lie Groups
    - Personalized Recommendations
    - Representations Of Finite And Lie Groups User Reviews and Ratings
    - Representations Of Finite And Lie Groups and Bestseller Lists

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