

Representations Of Compact Lie Groups

Charles Benedict Thomas



Representations Of Compact Lie Groups:

Representations of Compact Lie Groups T. Bröcker, T. tom Dieck, 2003-06-02 This introduction to the representation theory of compact Lie groups follows Herman Weyl's original approach. It discusses all aspects of finite dimensional Lie theory consistently emphasizing the groups themselves. Thus the presentation is more geometric and analytic than algebraic. It is a useful reference and a source of explicit computations. Each section contains a range of exercises and 24 figures help illustrate geometric concepts.

Representations of Compact Lie Groups Theodor Bröcker, Tammo tom Dieck, 1985

Compact Lie Groups and Their Representations Dmitrii Petrovich Zhelobenko, 1973-01-01

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Compact Lie Groups T. Brocker, T. Tom Dieck, 2014-01-15

Compact Lie Groups Mark R. Sepanski, 2006-12-19 Blending

algebra analysis and topology the study of compact Lie groups is one of the most beautiful areas of mathematics and a key stepping stone to the theory of general Lie groups. Assuming no prior knowledge of Lie groups this book covers the structure and representation theory of compact Lie groups. Coverage includes the construction of the Spin groups, Schur Orthogonality, the Peter Weyl Theorem, the Plancherel Theorem, the Maximal Torus Theorem, the Commutator Theorem, the Weyl Integration and Character Formulas, the Highest Weight Classification, and the Borel-Weil Theorem. The book develops the necessary Lie algebra theory with a streamlined approach focusing on linear Lie groups.

Introduction To Compact Lie Groups

Howard D Fegan, 1991-07-30 There are two approaches to compact Lie groups: by computation as matrices or theoretically as manifolds with a group structure. The great appeal of this book is the blending of these two approaches. The theoretical results are illustrated by computations and the theory provides a commentary on the computational work. Indeed there are extensive computations of the structure and representation theory for the classical groups SU_n , SO_n and Sp_n . A second exciting feature is that the differential geometry of a compact Lie group, both the classical curvature studies and the more recent heat equation methods, are treated. A large number of formulas for the connection and curvature are conveniently gathered together. This book provides an excellent text for a first course in compact Lie groups.

Compact Lie Groups and Their Representations D. P. Želobenko, 1978

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 $sl_3(\mathbb{C})$; 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 Poincaré 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

Lie Groups Daniel Bump, 2004-06-17 This book proceeds beyond the representation theory of compact Lie groups which is the basis of many texts and offers a carefully chosen range of material designed to give readers the bigger picture It explores compact Lie groups through a number of proofs and culminates in a topics section that takes the Frobenius Schur duality between the representation theory of the symmetric group and the unitary groups as unifying them

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 $SL_2(\mathbb{R})$

Compact Lie Groups and Their Representations Dmitrii Petrovich Zhelobenko, 1973 The content of this book is somewhat different from that of traditional books on representation theory First bearing in mind the needs of physicists the author has tried to make the exposition as elementary as possible The need for an elementary exposition has influenced the distribution of the material The book is divided into three largely independent parts arranged in order of increasing difficulty Besides compact Lie groups groups with other topological structure similar to compact groups in some sense are considered Prominent among these are reductive complex Lie groups in

The Representation Theory of Compact Lie Groups Warren A. Turner, 1984

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 S_n as an illustrative example

The book concludes with a chapter comparing the representations of the finite group $SL_2(\mathbb{p})$ and the non compact Lie group $SL_2(\mathbb{P})$

Compact Lie Groups Mark R. Sepanski, 2008-11-01 Blending algebra analysis and topology the study of compact Lie groups is one of the most beautiful areas of mathematics and a key stepping stone to the theory of general Lie groups Assuming no prior knowledge of Lie groups this book covers the structure and representation theory of compact Lie groups Coverage includes the construction of the Spin groups Schur Orthogonality the Peter Weyl Theorem the Plancherel Theorem the Maximal Torus Theorem the Commutator Theorem the Weyl Integration and Character Formulas the Highest Weight Classification and the Borel Weil Theorem The book develops the necessary Lie algebra theory with a streamlined approach focusing on linear Lie groups

Lie Groups J.J. Duistermaat, Johan A.C. Kolk, 2012-12-06 This book is devoted to an exposition of the theory of finite dimensional Lie groups and Lie algebras which is a beautiful and central topic in modern mathematics At the end of the nineteenth century this theory came to life in the works of Sophus Lie It had its origins in Lie's idea of applying Galois theory to differential equations and in Klein's Erlanger Programm of treating symmetry groups as the fundamental objects in geometry Lie's approach to many problems of analysis and geometry was mainly local that is valid in local coordinate systems only At the beginning of the twentieth century E Cartan and Weyl began a systematic treatment of the global aspects of Lie's theory Since then this theory has ramified tremendously and now as the twentieth century is coming to a close its concepts and methods pervade mathematics and theoretical physics Despite the plethora of books devoted to Lie groups and Lie algebras we feel there is justification for a text that puts emphasis on Lie's principal idea namely geometry treated by a blend of algebra and analysis Lie groups are geometrical objects whose structure can be described conveniently in terms of group actions and fiber bundles Therefore our point of view is mainly differential geometrical We have made no attempt to discuss systematically the theory of infinite dimensional Lie groups and Lie algebras which is currently an active area of research We now give a short description of the contents of each chapter

Module Structure of Certain Induced Representations of Compact Lie Groups Ellison James Funderburk, 1975

Compact Lie Groups and Their Representations Dmitriy P. Želobenko, 1983 Lie Groups Beyond an Introduction

Anthony W. Knap, 2013-03-09 Fifty years ago Claude Chevalley revolutionized Lie theory by publishing his classic *Theory of Lie Groups I* Before his book Lie theory was a mixture of local and global results As Chevalley put it This limitation was probably necessary as long as general topology was not yet sufficiently well elaborated to provide a solid base for a theory in the large These days are now passed Indeed they are passed because Chevalley's book changed matters Chevalley made global Lie groups into the primary objects of study In his third and fourth chapters he introduced the global notion of analytic subgroup so that Lie subalgebras corresponded exactly to analytic subgroups This correspondence is now taken as absolutely standard and any introduction to general Lie groups has to have it at its core Nowadays local Lie groups are a thing of the past they arise only at one point in the development and only until Chevalley's results have been stated and have

eliminated the need for the local theory But where does the theory go from this point Fifty years after Chevalley's book there are clear topics E Cartan's completion of Killing's work on classifying complex semisimple Lie algebras the treatment of finite dimensional representations of complex semisimple Lie algebras and compact Lie groups by Cartan and H Weyl the structure theory begun by Cartan for real semisimple Lie algebras and Lie groups and harmonic analysis in the setting of semisimple groups as begun by Cartan and Weyl

Non-linear Smooth Representations of Compact Lie Groups

Melvin Rothenberg, J. Sondow, 1967 Lectures on Representation Theory Jing-Song Huang, 1999 This book is an expanded version of the lectures given at the Nankai Mathematical Summer School in 1997 It provides an introduction to Lie groups Lie algebras and their representations as well as introduces some directions of current research for graduate students who have little specialized knowledge in representation theory It only assumes that the reader has a good knowledge of linear algebra and some basic knowledge of abstract algebra Parts I III of the book cover the relatively elementary material of representation theory of finite groups simple Lie algebras and compact Lie groups These theories are natural continuation of linear algebra The last chapter of Part III includes some recent results on extension of Weyl's construction to exceptional groups Part IV covers some advanced material on infinite dimensional representations of non compact groups such as the orbit method minimal representations and dual pair correspondences which introduces some directions of the current research in representation theory

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