

## 2

# Compact Lie Groups

In this section we consider the well understood case of a connected, compact Lie group. As was remarked in Example 1.3, any such group is automatically linear and reductive. In the setting of chapter 1, the groups  $K_{\mathbb{R}}$  and  $U_{\mathbb{R}}$  are compact, but not necessarily connected. In any case, knowing the representations of the identity component explicitly gives considerable information about the representations of a non-connected compact group – modulo knowledge of the representations of the component group, of course. In section 4, we shall suppose that the group  $G_{\mathbb{R}}$  has a connected complexification  $G$ ; in that case,  $U_{\mathbb{R}}$  will indeed be connected. Let us state the hypotheses of the current section explicitly:

$$U_{\mathbb{R}} \text{ is a connected compact Lie group.} \quad (7)$$

As in the previous section  $\mathfrak{g} = \mathbb{C} \otimes_{\mathbb{R}} \mathfrak{u}_{\mathbb{R}}$  denotes the complexified lie algebra of  $U_{\mathbb{R}}$ .

### 2.1 Maximal Tori, the Unit Lattice, and the Weight Lattice

A common strategy in mathematics is to study properties of a new class of objects by looking for sub-objects whose properties are already known, but which are “large enough” to convey some useful information about the objects to be studied. In representation theory this means studying representations of compact groups by restricting them to maximal tori, while representations of noncompact linear reductive groups are studied by restricting them to maximal compact subgroups.

With  $U_{\mathbb{R}}$  connected and compact, as we are assuming, let  $T_{\mathbb{R}} \subset U_{\mathbb{R}}$

# Representations Of Compact Lie Groups

**J. F. Adams**



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

**Compact Lie Groups** Mark R. Sepanski, 2007-04-05 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. Included is 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 necessary Lie algebra theory is also developed in the text with a streamlined approach focusing on linear Lie groups. Key Features are: Provides an approach that minimizes advanced prerequisites. Self contained and systematic exposition requiring no previous exposure to Lie theory. Advances quickly to the Peter Weyl Theorem and its corresponding Fourier theory. Streamlined Lie algebra discussion reduces the differential geometry prerequisite and allows a more rapid transition to the classification and construction of representations. Exercises sprinkled throughout. This beginning graduate level text aimed primarily at Lie Groups courses and related topics assumes familiarity with elementary concepts from group theory analysis and manifold theory. Students research mathematicians and physicists interested in Lie theory will find this text very useful. *Representations of Compact Lie Groups* T. Brocker, T. Tom

Dieck, 2014-01-15 **Representations of Compact Lie Groups** Theodor Bröcker, Tammo tom Dieck, 1985 [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. [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

**Lie Groups** Daniel Bump, 2013-10-01 This book is intended for a one year graduate course on Lie groups and Lie algebras The book goes beyond the representation theory of compact Lie groups which is the basis of many texts and provides a carefully chosen range of material to give the student the bigger picture The book is organized to allow different paths through the material depending on one's interests This second edition has substantial new material including improved discussions of underlying principles streamlining of some proofs and many results and topics that were not in the first edition For compact Lie groups the book covers the Peter Weyl theorem Lie algebra conjugacy of maximal tori the Weyl group roots and weights Weyl character formula the fundamental group and more The book continues with the study of complex analytic groups and general noncompact Lie groups covering the Bruhat decomposition Coxeter groups flag varieties symmetric spaces Satake diagrams embeddings of Lie groups and spin Other topics that are treated are symmetric function theory the representation theory of the symmetric group Frobenius Schur duality and  $GL(n, \mathbb{C})/GL(m, \mathbb{C})$  duality with many applications including some in random matrix theory branching rules Toeplitz determinants combinatorics of tableaux Gelfand pairs Hecke algebras the philosophy of cusp forms and the cohomology of Grassmannians An appendix introduces the reader to the use of Sage mathematical software for Lie group computations

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      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      *Compact Lie Groups and Their Representations* Dmitriy P. Želobenko, 1983      **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      *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      **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  $SL_2(\mathbb{C})$  and the non compact Lie group  $SL_2(\mathbb{R})$

*Lectures on Lie Groups* J. F. Adams,1982 Lectures in Lie Groups fulfills its aim admirably and should be a useful reference for any mathematician who would like to learn the basic results for compact Lie groups The book is a well written basic text and Adams has done a service to the mathematical community Irving Kaplansky **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  $SL_2(\mathbb{C})$  and the non compact Lie group  $SL_2(\mathbb{R})$  a **A First Course on Representation Theory and Linear Lie Groups** S C Bagchi,2000

This book is intended to serve as a textbook for a one semester course for M Sc M Phil Students at Indian universities Students of theoretical physics will also find this exposition useful The general theory of Lie groups appears formidable to an M Sc M Phil student **Non-linear Smooth Representations of Compact Lie Groups** Melvin Rothenberg,J..

Sondow,1967 *Lectures on Lie Groups and Representations of Locally Compact Groups* François Bruhat,1968

**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

## Unveiling the Energy of Verbal Art: An Emotional Sojourn through **Representations Of Compact Lie Groups**

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