Representation Theory Of Lie Groups And Lie Algebras

Brian C. Hall

Representation Theory Of Lie Groups And Lie Algebras:

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 Representation Theory* Hans Zassenhaus,1981 **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 **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   A Survey of Lie Groups and Lie Algebras with Applications and Computational Methods Johan G. F. Belinfante,Bernard Kolman,1989-01-01 In this reprint edition the character of the book especially its focus on classical representation theory and its computational aspects has not been changed   Lie Groups, Lie Algebras, and Their Representations V. S. Varadarajan,2014-01-15   **Essays in the History of Lie Groups and Algebraic Groups** Armand Borel,2001 Algebraic groups and Lie groups are important in most major areas of mathematics occuring in diverse roles such as the symmetries of differential equations and as central figures in the Langlands program for number theory In this book Professor Borel looks at the development of the theory of Lie groups and algebraic groups highlighting the evolution from the almost purely local theory at the start to the global theory that we know today As the starting point of this passagefrom local to global the author takes Lie s theory of local analytic transformation groups and Lie algebras He then follows the globalization of the process in its two most important frameworks transcendental differential geometry and algebraic geometry Chapters II to IV are devoted to the former Chapters V to VIII to the latter The essays in the first part of the book survey various proofs of the full reducibility of linear representations of SL 2M the contributions H Weyl to representation and invariant theory for Lie groups and conclude with a chapter on E Cartan s theory of symmetric spaces and Lie groups in the large The second part of the book starts with Chapter V describing the development of the theory of linear algebraic groups in the 19th century Many of the main contributions here are due to E Study E Cartan and above all to L Maurer After being abandoned for nearly 50 years the theory was revived by Chevalley and Kolchin and then further developed by many others This is the focus of Chapter VI The book concludes with two chapters on various aspects of the works of Chevalley on Lie groupsand algebraic groups and Kolchin on algebraic groups and the Galois theory of differential fields The author brings a unique perspective to this study As an important developer of some of the modern elements of both the differential geometric and the algebraic geometric sides of the theory he has a particularly deep appreciation of the

underlying mathematics His lifelong involvement and his historical research in the subject give him a special appreciation of the story of its development   *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* 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 GL m 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

Representation Theory of Lie Groups Jeffrey Adams, David Vogan,2015-06-02 This book contains written versions of the lectures given at the PCMI Graduate Summer School on the representation theory of Lie groups The volume begins with lectures by A Knapp and P Trapa outlining the state of the subject around the year 1975 specifically the fundamental results of Harish Chandra on the general structure of infinite dimensional representations and the Langlands classification Additional contributions outline developments in four of the most active areas of research over the past 20 years The clearly

written articles present results to date as follows R Zierau and L Barchini discuss the construction of representations on Dolbeault cohomology spaces D Vogan describes the status of the Kirillov Kostant philosophy of coadjoint orbits for unitary representations K Vilonen presents recent advances in the Beilinson Bernstein theory of localization And Jian Shu Li covers Howe s theory of dual reductive pairs Each contributor to the volume presents the topics in a unique comprehensive and accessible manner geared toward advanced graduate students and researchers Students should have completed the standard introductory graduate courses for full comprehension of the work The book would also serve well as a supplementary text for a course on introductory infinite dimensional representation theory Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price   *Introduction to Lie Algebras* K. Erdmann,Mark J. Wildon,2006-09-28 Lie groups and Lie algebras have become essential to many parts of mathematics and theoretical physics with Lie algebras a central object of interest in their own right This book provides an elementary introduction to Lie algebras based on a lecture course given to fourth year undergraduates The only prerequisite is some linear algebra and an appendix summarizes the main facts that are needed The treatment is kept as simple as possible with no attempt at full generality Numerous worked examples and exercises are provided to test understanding along with more demanding problems several of which have solutions Introduction to Lie Algebras covers the core material required for almost all other work in Lie theory and provides a self study guide suitable for undergraduate students in their final year and graduate students and researchers in mathematics and theoretical physics   **Introduction to Lie Algebras and Representation Theory** J.E. Humphreys,2012-12-06 This book is designed to introduce the reader to the theory of semisimple Lie algebras over an algebraically closed field of characteristic 0 with emphasis on representations A good knowledge of linear algebra including eigenvalues bilinear forms euclidean spaces and tensor products of vector spaces is presupposed as well as some acquaintance with the methods of abstract algebra The first four chapters might well be read by a bright undergraduate however the remaining three chapters are admittedly a little more demanding Besides being useful in many parts of mathematics and physics the theory of semisimple Lie algebras is inherently attractive combining as it does a certain amount of depth and a satisfying degree of completeness in its basic results Since Jacobson s book appeared a decade ago improvements have been made even in the classical parts of the theory I have tried to incor porate some of them here and to provide easier access to the subject for non specialists For the specialist the following features should be noted I The Jordan Chevalley decomposition of linear transformations is emphasized with toral subalgebras replacing the more traditional Cartan subalgebras in the semisimple case 2 The conjugacy theorem for Cartan subalgebras is proved following D J Winter and G D Mostow by elementary Lie algebra methods avoiding the use of algebraic geometry   **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 **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 Theory** Jean-Philippe Anker,Bent Orsted,2004 First of three independent self contained volumes under the general title Lie Theory featuring original results and survey work from renowned mathematicians Contains J C Jantzen s Nilpotent Orbits in Representation Theory and K H Neeb s Infinite Dimensional Groups and their Representations Comprehensive treatments of the relevant geometry of orbits in Lie algebras or their duals and the correspondence to representations Should benefit graduate students and researchers in mathematics and mathematical physics **Lie Groups and Lie Algebras** B.P. Komrakov,I.S. Krasil'shchik,G.L. Litvinov,A.B. Sossinsky,2011-09-28 This collection contains papers conceptually related to the classical ideas of Sophus Lie i e to Lie groups and Lie algebras Obviously it is impos sible to embrace all such topics in a book of reasonable size The contents of this one reflect the scientific interests of those authors whose activities to some extent at least are associated with the International Sophus Lie Center We have divided the book into five parts in accordance with the basic topics of the papers although it can be easily seen that some of them may be attributed to several parts simultaneously The first part quantum mathematics combines the papers related to the methods generated by the concepts of quantization and quantum group The second part is devoted to the theory of hypergroups and Lie hypergroups which is one of the most important generalizations of the classical concept of locally compact group and of Lie group A natural harmonic analysis arises on hypergroups while any abstract transformation of Fourier type is gen erated by some hypergroup commutative or not Part III contains papers on the geometry of homogeneous spaces Lie algebras and Lie superalgebras Classical problems of the representation theory for Lie groups as well as for topological groups and semigroups are discussed in the papers of Part IV Finally the last part of the collection relates to applications of the ideas of Sophus Lie to differential equations **An Introduction to Lie Groups and Lie Algebras** Alexander A. Kirillov,2008-07-31 This book is an introduction to semisimple Lie algebras It is concise and informal with numerous exercises and examples

Representation Theory Of Lie Groups And Lie Algebras - Proceedings Of Fuji-kawaguchiko Conference Takeshi Kawazoe,Toshio Oshima,S Sano,1992-08-07 The proceedings in this volume covers recent developments of representation theory of real Lie groups Lie algebras harmonic analysis on homogeneous spaces their applications and related topics Lie Groups, Lie Algebras, and Cohomology Anthony W. Knapp,1988-05-21 This book starts with the elementary theory of Lie groups of matrices and arrives at the definition elementary properties and first applications of cohomological induction which is a recently discovered algebraic construction of group representations Along the way it develops the computational techniques that are so important in handling Lie groups The book is based on a one semester course given at the State University of New York Stony Brook in fall 1986 to an audience having little or no background in Lie groups but interested in seeing connections among algebra geometry and Lie theory These notes develop what is needed beyond a first graduate course in algebra in order to appreciate cohomological induction and to see its first consequences Along the way one is able to study homological algebra with a significant application in mind consequently one sees just what results in that subject are fundamental and what results are minor **Structure and Geometry of Lie Groups** Joachim Hilgert,Karl-Hermann Neeb,2011-11-06 This self contained text is an excellent introduction to Lie groups and their actions on manifolds The authors start with an elementary discussion of matrix groups followed by chapters devoted to the basic structure and representation theory of finite dimensinal Lie algebras They then turn to global issues demonstrating the key issue of the interplay between differential geometry and Lie theory Special emphasis is placed on homogeneous spaces and invariant geometric structures The last section of the book is dedicated to the structure theory of Lie groups Particularly they focus on maximal compact subgroups dense subgroups complex structures and linearity This text is accessible to a broad range of mathematicians and graduate students it will be useful both as a graduate textbook and as a research reference

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