

Graduate Texts in Mathematics

**Theodor Bröcker
Tammo tom Dieck**

Representations of Compact Lie Groups



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Representations Of Compact Lie Groups Graduate Texts In Mathematics

Pierre-Loic Meliot



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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 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

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 Theodor Bröcker, Tammo tom Dieck, 1985 **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 I feel 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 fill 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

Representations of Compact Lie Groups T. Brocker, T. Tom Dieck, 2014-01-15 [\[PDF\]](#) **Representations of Compact Lie Groups/Graduate Texts in Mathematics** [PDF], 1999 **Lie Groups, Geometry, and Representation Theory** Victor G. Kac, Vladimir L. Popov, 2018-12-12 This volume dedicated to the memory of the great American mathematician Bertram Kostant May 24 1928 February 2 2017 is a collection of 19 invited papers by leading mathematicians working in Lie theory representation theory algebra geometry and mathematical physics Kostant's fundamental work in all of these areas has provided deep new insights and connections and has created new fields of research This volume features the only published articles of important recent results of the contributors with full details of their proofs Key topics include Poisson structures and potentials A Alekseev A Berenstein B Hoffman Vertex algebras T Arakawa K Kawasetsu Modular irreducible representations of semisimple Lie algebras R Bezrukavnikov I Losev Asymptotic Hecke algebras A Braverman D Kazhdan Tensor categories and quantum groups A Davydov P Etingof D Nikshych Nil Hecke algebras and Whittaker D modules V Ginzburg Toeplitz operators V Guillemin A Uribe Z Wang Kashiwara crystals A Joseph Characters of highest weight modules V Kac M Wakimoto Alcove polytopes T Lam A Postnikov Representation theory of quantized Gieseker varieties I Losev Generalized Bruhat cells and integrable systems J H Liu Y Mi Almost characters G Lusztig Verlinde formulas E Meinrenken Dirac operator and equivariant index P Paradan M Vergne Modality of representations and geometry of groups V L Popov Distributions on homogeneous spaces N Ressayre Reduction of orthogonal representations J P Serre **Compact Lie Groups and Their Representations** Dmitrii Petrovich Zhelobenko, 1973-01-01 **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 **Lie Groups and Geometric Aspects of Isometric Actions** Marcos M. Alexandrino, Renato G. Bettiol, 2015-05-22 This book provides quick access to the theory of Lie groups and isometric actions on smooth manifolds using a concise geometric approach After a gentle introduction to the subject some of its recent applications to active research areas are explored keeping a constant connection with the basic material The topics discussed include polar actions singular Riemannian foliations cohomogeneity one actions and positively curved manifolds with many symmetries This book stems from the experience gathered by the authors in several lectures along the years and was designed to be as self contained as possible It is intended for advanced undergraduates graduate students and young researchers in geometry and can be used for a one semester course or independent study **Representation Theory of Symmetric Groups** Pierre-Loic Meliot, 2017-05-12 Representation Theory of Symmetric Groups is the most up to date

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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

New Perspectives in Algebraic Combinatorics Louis J. Billera, 1999-09-28 This text contains expository contributions by respected researchers on the connections between algebraic geometry topology commutative algebra representation theory and convex geometry

Developments and Retrospectives in Lie Theory Geoffrey Mason, Ivan Penkov, Joseph A. Wolf, 2014-11-12 The Lie Theory Workshop founded by Joe Wolf UC Berkeley has been running for over two decades At the beginning the top universities in California and Utah hosted the meetings which continue to run on a quarterly basis Experts in representation theory Lie theory from various parts of the US Europe Asia China Japan Singapore Russia Canada and South and Central America were routinely invited to give talks at these meetings Nowadays the workshops are also hosted at universities in Louisiana Virginia and Oklahoma These Lie theory workshops have been sponsored by the NSF noting the talks have been seminal in describing new perspectives in the field covering broad areas of current research The contributors have all participated in these Lie theory workshops and include in this volume expository articles which will cover representation theory from the algebraic geometric analytic and topological perspectives with also important connections to math physics These survey articles review and update the prominent seminal series of workshops in representation Lie theory mentioned above and reflects the widespread influence of those workshops in such areas as harmonic analysis representation theory differential geometry algebraic geometry number theory and mathematical physics Many of the contributors have had prominent roles in both the classical and modern developments of Lie theory and its applications

Deformation Theory of Discontinuous Groups Ali Baklouti, 2025-03-17 This project is a second edition of the textbook Deformation Theory of Discontinuous Groups De Gruyter 2022 It is devoted to studying various geometric and topological concepts related to the deformation and moduli spaces of discontinuous group actions and building some interrelationships between these concepts It presents full proofs of recent results computes fundamental examples and serves as an introduction and reference for students and researchers in Lie theory discontinuous groups and deformation spaces A part of the first edition the setting of affine actions is introduced and new ideas and methods are developed with full proofs The setting of compact extensions is also re written with new approaches and proofs It also contains the most recent

developments of the theory extending from basic concepts to a comprehensive exposition and highlighting the newest approaches and methods in deformation theory It also includes the most recent solutions to many open questions over the last decades and brings related newest research results in this area For specialists and beginners in deformation theory the settings of Heisenberg and Threadlike cases are differently re written with full details and proofs **Topological Methods in Group Theory** Ross Geoghegan,2007-12-27 This book is about the interplay between algebraic topology and the theory of infinite discrete groups It is a hugely important contribution to the field of topological and geometric group theory and is bound to become a standard reference in the field To keep the length reasonable and the focus clear the author assumes the reader knows or can easily learn the necessary algebra but wants to see the topology done in detail The central subject of the book is the theory of ends Here the author adopts a new algebraic approach which is geometric in spirit *Schubert Calculus and Its Applications in Combinatorics and Representation Theory* Jianxun Hu,Changzheng Li,Leonardo C. Mihalcea,2020-10-24 This book gathers research papers and surveys on the latest advances in Schubert Calculus presented at the International Festival in Schubert Calculus held in Guangzhou China on November 6 10 2017 With roots in enumerative geometry and Hilbert s 15th problem modern Schubert Calculus studies classical and quantum intersection rings on spaces with symmetries such as flag manifolds The presence of symmetries leads to particularly rich structures and it connects Schubert Calculus to many branches of mathematics including algebraic geometry combinatorics representation theory and theoretical physics For instance the study of the quantum cohomology ring of a Grassmann manifold combines all these areas in an organic way The book is useful for researchers and graduate students interested in Schubert Calculus and more generally in the study of flag manifolds in relation to algebraic geometry combinatorics representation theory and mathematical physics Riemannian Geometry Peter Petersen,2006-11-24 This volume introduces techniques and theorems of Riemannian geometry and opens the way to advanced topics The text combines the geometric parts of Riemannian geometry with analytic aspects of the theory and reviews recent research The updated second edition includes a new coordinate free formula that is easily remembered the Koszul formula in disguise an expanded number of coordinate calculations of connection and curvature general formulas for curvature on Lie Groups and submersions variational calculus integrated into the text allowing for an early treatment of the Sphere theorem using a forgotten proof by Berger recent results regarding manifolds with positive curvature Essays in Mathematics and its Applications Themistocles M. Rassias,Panos M. Pardalos,2016-06-14 This volume dedicated to the eminent mathematician Vladimir Arnold presents a collection of research and survey papers written on a large spectrum of theories and problems that have been studied or introduced by Arnold himself Emphasis is given to topics relating to dynamical systems stability of integrable systems algebraic and differential topology global analysis singularity theory and classical mechanics A number of applications of Arnold s groundbreaking work are presented This publication will assist graduate students and research mathematicians in

acquiring an in depth understanding and insight into a wide domain of research of an interdisciplinary nature

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