Graduate Texts in Mathematics

Theodor Bröcker
Tammo tom Dieck

Representations of Compact Lie Groups

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Brian Hall

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   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 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

   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

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   *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   □□□□□/**Representations of Compact Lie Groups/Graduate Texts in Mathematics** □□□,□□,1999   *Representations of Compact Lie Groups* Theodor Bröcker,Tammo tom Dieck,1985   *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   *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   **Topics in Noncommutative Algebra** Andrea Bonfiglioli,Roberta Fulci,2011-10-12 Motivated by the importance of the Campbell Baker Hausdorff Dynkin Theorem in many different branches of Mathematics and Physics Lie group Lie algebra theory linear PDEs Quantum and Statistical Mechanics Numerical Analysis Theoretical Physics Control Theory sub Riemannian Geometry this monograph is intended to fully enable readers graduates or specialists mathematicians physicists or applied scientists acquainted with Algebra or not to understand and apply the

statements and numerous corollaries of the main result provide a wide spectrum of proofs from the modern literature comparing different techniques and furnishing a unifying point of view and notation provide a thorough historical background of the results together with unknown facts about the effective early contributions by Schur Poincar Pascal Campbell Baker Hausdorff and Dynkin give an outlook on the applications especially in Differential Geometry Lie group theory and Analysis PDEs of subelliptic type and quickly enable the reader through a description of the state of art and open problems to understand the modern literature concerning a theorem which though having its roots in the beginning of the 20th century has not ceased to provide new problems and applications The book assumes some undergraduate level knowledge of algebra and analysis but apart from that is self contained Part II of the monograph is devoted to the proofs of the algebraic background The monograph may therefore provide a tool for beginners in Algebra *Smooth Manifolds* Claudio Gorodski,2020-08-01 This concise and practical textbook presents the essence of the theory on smooth manifolds A key concept in mathematics smooth manifolds are ubiquitous They appear as Riemannian manifolds in differential geometry as space times in general relativity as phase spaces and energy levels in mechanics as domains of definition of ODEs in dynamical systems as Lie groups in algebra and geometry and in many other areas The book first presents the language of smooth manifolds culminating with the Frobenius theorem before discussing the language of tensors which includes a presentation of the exterior derivative of differential forms It then covers Lie groups and Lie algebras briefly addressing homogeneous manifolds Integration on manifolds explanations of Stokes theorem and de Rham cohomology and rudiments of differential topology complete this work It also includes exercises throughout the text to help readers grasp the theory as well as more advanced problems for challenge oriented minds at the end of each chapter Conceived for a one semester course on Differentiable Manifolds and Lie Groups which is offered by many graduate programs worldwide it is a valuable resource for students and lecturers alike Surveys in Geometry and Number Theory Nicholas Young,2007-01-18 A collection of survey articles by leading young researchers showcasing the vitality of Russian mathematics *Basic Lie Theory* Hossein Abbaspour,Martin A. Moskowitz,2007 This volume provides a comprehensive treatment of basic Lie theory primarily directed toward graduate study The text is ideal for a full graduate course in Lie groups and Lie algebras However the book is also very usable for a variety of other courses a one semester course in Lie algebras or on Haar measure and its applications for advanced undergraduates or as the text for one semester graduate courses in Lie groups and symmetric spaces of non compact type or in lattices in Lie groups The material is complete and detailed enough to be used for self study it can also serve as a reference work for professional mathematicians working in other areas The book s utility for such a varied readership is enhanced by a diagram showing the interdependence of the separate chapters so that individual chapters and the material they depend upon can be selected while others can be skipped The book incorporates many of the most significant discoveries and pioneering contributions of the masters of the subject Borel Cartan Chevalley Iwasawa

Mostow Siegel and Weyl among others **Journal of Lie Theory** ,1994 **Symmetry in Geometry and Analysis, Volume 3** Michael Pevzner,Hideko Sekiguchi,2025-02-10 Symmetry in Geometry and Analysis is a Festschrift honoring Toshiyuki Kobayashi The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims France and in September 2022 in Tokyo Japan These contributions highlight the profound impact of Prof Kobayashi s pioneering ideas groundbreaking discoveries and significant achievements in the development of analytic representation theory noncommutative harmonic analysis and the geometry of discontinuous groups beyond the Riemannian context among other areas over the past four decades This third volume of the Festschrift contains original articles on branching problems in representation theory of reductive Lie groups and related topics Contributions are by Ali Baklouti Hidenori Fujiwara Dmitry Gourevitch Masatoshi Kitagawa Salma Nasrin Yoshiki Oshima and Petr Somberg **Coherent States and Their Applications** Jean-Pierre Antoine,Fabio Bagarello,Jean-Pierre Gazeau,2018-06-01 Coherent states CS were originally introduced in 1926 by Schr dinger and rediscovered in the early 1960s in the context of laser physics Since then they have evolved into an extremely rich domain that pervades virtually every corner of physics and have also given rise to a range of research topics in mathematics The purpose of the 2016 CIRM conference was to bring together leading experts in the field with scientists interested in related topics to jointly investigate their applications in physics their various mathematical properties and their generalizations in many directions Instead of traditional proceedings this book presents sixteen longer review type contributions which are the outcome of a collaborative effort by many conference participants subsequently reviewed by independent experts The book aptly illustrates the diversity of CS aspects from purely mathematical topics to physical applications including quantum gravity **Bulletin (new Series) of the American Mathematical Society** ,2008 Lie Groups J.J. Duistermaat,Johan A.C. Kolk,1999-12-15 This post graduate text gives a broad introduction to Lie groups and algebras with an emphasis on differential geometrical methods It analyzes the structure of compact Lie groups in terms of the action of the group on itself by conjugation culminating in the classification of the representations of compact Lie groups and their realization as sections of holomorphic line bundles over flag manifolds Appendices provide background reviews Transformation Groups Poznan 1985 Stefan Jackowski,Krzysztof Pawalowski,2006-11-14

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