Semisimple Groups and
Riemannian Symmetric Spaces

Armand Borel

Semisimple Groups And Riemannian Symmetric Spaces

Mikio Ise,Masaru Takeuchi

Semisimple Groups And Riemannian Symmetric Spaces:

Semisimple Groups and Riemannian Symmetric Spaces Armand Borel,1998-12-15 **Compactifications of Symmetric and Locally Symmetric Spaces** Armand Borel,Lizhen Ji,2006-07-25 Noncompact symmetric and locally symmetric spaces naturally appear in many mathematical theories including analysis representation theory nonabelian harmonic analysis number theory automorphic forms algebraic geometry modulae and algebraic topology cohomology of discrete groups In most applications it is necessary to form an appropriate compactification of the space The literature dealing with such compactifications is vast The main purpose of this book is to introduce uniform constructions of most of the known compactifications with emphasis on their geometric and topological structures The book is divided into three parts Part I studies compactifications of Riemannian symmetric spaces and their arithmetic quotients Part II is a study of compact smooth manifolds Part III studies the compactification of locally symmetric spaces Familiarity with the theory of semisimple Lie groups is assumed as is familiarity with algebraic groups defined over the rational numbers in later parts of the book although most of the pertinent material is recalled as presented Otherwise the book is a self contained reference aimed at graduate students and research mathematicians interested in the applications of Lie theory and representation theory to diverse fields of mathematics **Differential Geometry, Lie Groups, and Symmetric Spaces** Sigurdur Helgason,2024-12-19 A great book a necessary item in any mathematical library S S Chern University of California A brilliant book rigorous tightly organized and covering a vast amount of good mathematics Barrett O Neill University of California This is obviously a very valuable and well thought out book on an important subject Andr Weil Institute for Advanced Study The study of homogeneous spaces provides excellent insights into both differential geometry and Lie groups In geometry for instance general theorems and properties will also hold for homogeneous spaces and will usually be easier to understand and to prove in this setting For Lie groups a significant amount of analysis either begins with or reduces to analysis on homogeneous spaces frequently on symmetric spaces For many years and for many mathematicians Sigurdur Helgason s classic Differential Geometry Lie Groups and Symmetric Spaces has been and continues to be the standard source for this material Helgason begins with a concise self contained introduction to differential geometry Next is a careful treatment of the foundations of the theory of Lie groups presented in a manner that since 1962 has served as a model to a number of subsequent authors This sets the stage for the introduction and study of symmetric spaces which form the central part of the book The text concludes with the classification of symmetric spaces by means of the Killing Cartan classification of simple Lie algebras over $\mathbb{C}$ and Cartan s classification of simple Lie algebras over $\mathbb{R}$ following a method of Victor Kac The excellent exposition is supplemented by extensive collections of useful exercises at the end of each chapter All of the problems have either solutions or substantial hints found at the back of the book For this edition the author has made corrections and added helpful notes and useful references Sigurdur Helgason was awarded the Steele Prize for Differential

Geometry Lie Groups and Symmetric Spaces and Groups and Geometric Analysis **Analysis on Non-Riemannian Symmetric Spaces** Mogens Flensted-Jensen,1986-12-31 Harmonic analysis on Riemannian semisimple symmetric spaces and on special types of non Riemannian semisimple symmetric spaces are well established theories This book presents a systematic treatment of the basic problems on semisimple symmetric spaces and a discussion of some of the more important recent developments in the field The author s primary contribution has been his idea of how to construct the discrete series for such a space In this book a fundamental role is played by the ideas behind that construction namely the duality principle the orbit picture related to it and the definition of representations by means of distributions on the orbits Intended as a text at the upper graduate level the book assumes a basic knowledge of Fourier analysis differential geometry and functional analysis In particular the reader should have a good knowledge of the general theory of real and complex Lie algebras and Lie groups and of the root and weight theories for semisimple Lie algebras and Lie groups   Lie Groups and Symmetric Spaces Semen Grigor′evich Gindikin,2003 The book contains survey and research articles devoted mainly to geometry and harmonic analysis of symmetric spaces and to corresponding aspects of group representation theory The volume is dedicated to the memory of Russian mathematician F I Karpelevich 1927 2000 Of particular interest are the survey articles by Sawyer on the Abel transform on noncompact Riemannian symmetric spaces and by Anker and Ostellari on estimates for heat kernels on such spaces as well as thearticle by Bernstein and Gindikin on integral geometry for families of curves There are also many research papers on topics of current interest The book is suitable for graduate students and research mathematicians interested in harmonic analysis and representation theory   *Differential Geometry and Symmetric Spaces* Sigurdur Helgason,2024-04-05 Sigurdur Helgason s Differential Geometry and Symmetric Spaces was quickly recognized as a remarkable and important book For many years it was the standard text both for Riemannian geometry and for the analysis and geometry of symmetric spaces Several generations of mathematicians relied on it for its clarity and careful attention to detail Although much has happened in the field since the publication of this book as demonstrated by Helgason s own three volume expansion of the original work this single volume is still an excellent overview of the subjects For instance even though there are now many competing texts the chapters on differential geometry and Lie groups continue to be among the best treatments of the subjects available There is also a well developed treatment of Cartan s classification and structure theory of symmetric spaces The last chapter on functions on symmetric spaces remains an excellent introduction to the study of spherical functions the theory of invariant differential operators and other topics in harmonic analysis This text is rightly called a classic   Differential Geometry and Symmetric Spaces ,1962-01-01 Differential Geometry and Symmetric Spaces   *Real Hypersurfaces in Hermitian Symmetric Spaces* Jürgen Berndt,Young Jin Suh,2022-03-21 Hermitian symmetric spaces are an important class of manifolds that can be studied with methods from K hler geometry and Lie theory This work gives an introduction to Hermitian symmetric spaces and their submanifolds and presents classifi cation results for real

hypersurfaces in these spaces focusing on results obtained by J rgen Berndt and Young Jin Suh in the last 20 years

Harmonic Analysis and Special Functions on Symmetric Spaces Gerrit Heckman,1995-02-08 The two parts of this sharply focused book Hypergeometric and Special Functions and Harmonic Analysis on Semisimple Symmetric Spaces are derived from lecture notes for the European School of Group Theory a forum providing high level courses on recent developments in group theory The authors provide students and researchers with a thorough and thoughtful overview elaborating on the topic with clear statements of definitions and theorems and augmenting these withtime saving examples An extensive set of notes supplements the text Heckman and Schlichtkrull extend the ideas of harmonic analysis on semisimple symmetric spaces to embrace the theory of hypergeometric and spherical functions and show that the K variant Eisenstein integrals for G H are hypergeometric functions under this theory They lead readers from the fundamentals of semisimple symmetric spaces of G H to the frontier including generalization to the Riemannian case This volume will interest harmonic analysts those working on or applying the theory of symmetric spaces it will also appeal to those with an interest in special functions Extends ideas of harmonic analysis on symmetric spacesFirst treatment of the theory to include hypergeometric and spherical functionsLinks algebraic analytic and geometric methods **Analysis on Non-Riemannian Symmetric Spaces** Mogens Flensted-Jensen,1986 Harmonic analysis on Riemannian semi simple symmetric spaces and on special types of non Riemannian semi simple symmetric spaces are well established theories This book presents a systematic treatment of the basic problems on semi simple symmetric spaces and a discussion of some of the more important recent developments in the field *Lectures on Gaussian Integral Operators and Classical Groups* Yu. A. Neretin,2011 This book is an elementary self contained introduction to some constructions of representation theory and related topics of differential geometry and analysis Topics covered include the theory of various Fourier like integral operators such as Segal Bargmann transforms Gaussian integral operators in L 2 and in the Fock space integral operators with theta kernels the geometry of real and p adic classical groups and symmetric spaces The heart of the book is the Weil representation of the symplectic group real and complex realizations relations with theta functions and modular forms p adic and adelic constructions and representations in Hilbert spaces of holomorphic functions of several complex variables This book is addressed to graduate students and researchers in representation theory differential geometry and operator theory Prerequisites are standard university courses in linear algebra functional analysis and complex analysis **Groups and Analysis** Katrin Tent,2008-10-16 Many areas of mathematics were deeply influenced or even founded by Hermann Weyl including geometric foundations of manifolds and physics topological groups Lie groups and representation theory harmonic analysis and analytic number theory as well as foundations of mathematics In this volume leading experts present his lasting influence on current mathematics often connecting Weyl s theorems with cutting edge research in dynamical systems invariant theory and partial differential equations In a broad and accessible presentation survey chapters describe the historical development of each

area alongside up to the minute results focussing on the mathematical roots evident within Weyl s work **Strong Rigidity of Locally Symmetric Spaces. (AM-78), Volume 78** G. Daniel Mostow,2016-03-02 Locally symmetric spaces are generalizations of spaces of constant curvature In this book the author presents the proof of a remarkable phenomenon which he calls strong rigidity this is a stronger form of the deformation rigidity that has been investigated by Selberg Calabi Vesentini Weil Borel and Raghunathan The proof combines the theory of semi simple Lie groups discrete subgroups the geometry of E Cartan s symmetric Riemannian spaces elements of ergodic theory and the fundamental theorem of projective geometry as applied to Tit s geometries In his proof the author introduces two new notions having independent interest one is pseudo isometries the other is a notion of a quasi conformal mapping over the division algebra K K equals real complex quaternion or Cayley numbers The author attempts to make the account accessible to readers with diverse backgrounds and the book contains capsule descriptions of the various theories that enter the proof Geometric Analysis on Symmetric Spaces Sigurdur Helgason,2024-09-27 This book gives the first systematic exposition of geometric analysis on Riemannian symmetric spaces and its relationship to the representation theory of Lie groups The book starts with modern integral geometry for double fibrations and treats several examples in detail After discussing the theory of Radon transforms and Fourier transforms on symmetric spaces inversion formulas and range theorems Helgason examines applications to invariant differential equations on symmetric spaces existence theorems and explicit solution formulas particularly potential theory and wave equations The canonical multitemporal wave equation on a symmetric space is included The book concludes with a chapter on eigenspace representations that is representations on solution spaces of invariant differential equations Known for his high quality expositions Helgason received the 1988 Steele Prize for his earlier books Differential Geometry Lie Groups and Symmetric Spaces and Groups and Geometric Analysis Containing exercises with solutions and references to further results this revised edition would be suitable for advanced graduate courses in modern integral geometry analysis on Lie groups and representation theory of Lie groups Geometric Analysis on Symmetric Spaces Phillip Griffiths,Sigurdur Helgason,1989 This book gives the first systematic exposition of geometric analysis on Riemannian symmetric spaces and its relationship to the representation theory of Lie groups The book starts with modern integral geometry for double fibrations and treats several examples in detail After discussing the theory of Radon transforms and Fourier transforms on symmetric spaces inversion formulas and range theorems Helgason examines applications to invariant differential equations on symmetric spaces existence theorems and explicit solution formulas particularly potential theory and wave equations The canonical multitemporal wave equation on a symmetric space is included The book concludes with a chapter on eigenspace representations that is representations on solution spaces of invariant differential equations BOOK JACKET **Lie Groups I** Mikio Ise,Masaru Takeuchi,1991 The first part of this book which is the second edition of the book of the same title is intended to provide readers with a brief introduction to the theory of Lie groups as an aid to further study by presenting the

fundamental features of Lie groups as a starting point for understanding Lie algebras and Lie theory in general In the revisions for the second edition proofs of some of the results were added The second part of the book builds on some of the background developed in the first part offering an introduction to the theory of symmetric spaces a remarkable example of applications of Lie group theory to differential geometry The book emphasizes this aspect by surveying the fundamentals of Riemannian manifolds and by giving detailed explanations of the way in which geometry and Lie group theory come together

Ergodic Theory and Topological Dynamics of Group Actions on Homogeneous Spaces M. Bachir Bekka,Matthias Mayer,2000-05-11 This book first published in 2000 focuses on developments in the study of geodesic flows on homogenous spaces   Global Differential Geometry Christian Bär,Joachim Lohkamp,Matthias Schwarz,2011-12-18 This volume contains a collection of well written surveys provided by experts in Global Differential Geometry to give an overview over recent developments in Riemannian Geometry Geometric Analysis and Symplectic Geometry The papers are written for graduate students and researchers with a general interest in geometry who want to get acquainted with the current trends in these central fields of modern mathematics   **Spaces of Constant Curvature** Joseph A. Wolf,2023-06-05 This book is the sixth edition of the classic Spaces of Constant Curvature first published in 1967 with the previous fifth edition published in 1984 It illustrates the high degree of interplay between group theory and geometry The reader will benefit from the very concise treatments of riemannian and pseudo riemannian manifolds and their curvatures of the representation theory of finite groups and of indications of recent progress in discrete subgroups of Lie groups Part I is a brief introduction to differentiable manifolds covering spaces and riemannian and pseudo riemannian geometry It also contains a certain amount of introductory material on symmetry groups and space forms indicating the direction of the later chapters Part II is an updated treatment of euclidean space form Part III is Wolf s classic solution to the Clifford Klein Spherical Space Form Problem It starts with an exposition of the representation theory of finite groups Part IV introduces riemannian symmetric spaces and extends considerations of spherical space forms to space forms of riemannian symmetric spaces Finally Part V examines space form problems on pseudo riemannian symmetric spaces At the end of Chapter 12 there is a new appendix describing some of the recent work on discrete subgroups of Lie groups with application to space forms of pseudo riemannian symmetric spaces Additional references have been added to this sixth edition as well   Symmetry in Geometry and Analysis, Volume 2 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 second volume of the Festschrift contains original articles on analytic methods in

representation theory of reductive Lie groups and related topics Contributions are by Salem Ben Sa d Valentina Casarino Paolo Ciatti Jean Louis Clerc Jan Frahm Joachim Hilgert Toshihisa Kubo Khalid Koufany Quentin Labriet Karl Hermann Neeb Yury Neretin Gestur lafsson Bent rsted Toshio Oshima Birgit Speh Jorge Vargas and Clemens Weiske

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