

Robert M. Kauffman

Eigenfunction Expansions, Operator Algebras and Riemannian Symmetric Spaces



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Eigenfunction Expansion Operator Algebras And Riemannian Symmetric Spaces

G F Roach,A C McBride



Eigenfunction Expansion Operator Algebras And Riemannian Symmetric Spaces:

Eigenfunction Expansions, Operator Algebras and Riemannian Symmetric Spaces Robert M Kauffman, 1996-09-25 This Research Note pays particular attention to studying the convergence of the expansion and to the case where D is a family of partial differential operators. All operators in the natural von Neumann algebra associated with D and also unbounded operators affiliated with this algebra are expanded simultaneously in terms of generalized eigenprojections. These are operators which carry a natural space associated with D into its dual. The elements of the range of these eigenprojections are the eigenfunctions which solve the appropriate eigenvalue equations by duality. The spectral measure is abstractly defined but its absolute continuity with respect to Hausdorff measure on the joint spectrum is shown to occur when the eigenfunctions are very well behaved. Uniqueness results are given showing that any two expansions arise from each other by a simple change of variable. A considerable effort has been made to keep the book self contained for readers with a background in functional analysis including a basic understanding of the theory of von Neumann algebras. More advanced topics in functional analysis and an introduction to differential geometry and differential operator theory mostly without proofs are given in an extensive section on background material.

Twistor Theory for Riemannian Symmetric Spaces

Francis E. Burstall, John H. Rawnsley, 2006-11-14 In this monograph on twistor theory and its applications to harmonic map theory a central theme is the interplay between the complex homogeneous geometry of flag manifolds and the real homogeneous geometry of symmetric spaces. In particular flag manifolds are shown to arise as twistor spaces of Riemannian symmetric spaces. Applications of this theory include a complete classification of stable harmonic 2 spheres in Riemannian symmetric spaces and a Bäcklund transform for harmonic 2 spheres in Lie groups which in many cases provides a factorisation theorem for such spheres as well as gap phenomena. The main methods used are those of homogeneous geometry and Lie theory together with some algebraic geometry of Riemann surfaces. The work addresses differential geometers especially those with interests in minimal surfaces and homogeneous manifolds.

Mathematical Reviews

, 1998 *Recent Developments in Evolution Equations* G F Roach, A C McBride, 1995-04-28 This book presents the majority of talks given at an International Conference held recently at the University of Strathclyde in Glasgow. The works presented focus on the analysis of mathematical models of systems evolving with time. The main topics are semigroups and related subjects connected with applications to partial differential equations of evolution type. Topics of particular interest include spectral and asymptotic properties of semigroups, evolution scattering theory and coagulation fragmentation phenomena.

Algebraic Methods in Statistics and Probability Marlos A. G. Viana, Donald St. P. Richards, 2001 The 23 papers report recent developments in using the technique to help clarify the relationship between phenomena and data in a number of natural and social sciences. Among the topics are a coordinate free approach to multivariate exponential families, some rank based hypothesis tests for covariance structure and conditional independence, deconvolution density estimation on compact

Lie groups random walks on regular languages and algebraic systems of generating functions and the extendibility of statistical models There is no index c Book News Inc *Harmonic Analysis and Group Representations* A. Figà Talamanca, 2011-06-10 Lectures A Auslander R Tolimeri Nilpotent groups and abelian varieties M Cowling Unitary and uniformly bounded representations of some simple Lie groups M Duflo Construction de représentations unitaires d'un groupe de Lie R Howe On a notion of rank for unitary representations of the classical groups V S Varadarajan Eigenfunction expansions of semisimple Lie groups R Zimmer Ergodic theory group representations and rigidity Seminars A Koranyi Some applications of Gelfand pairs in classical analysis *Classical Hypergeometric Functions and Generalizations* Howard S. Cohl, Roberto S. Costas-Santos, Robert S. Maier, 2025-04-23 This is the first volume of a two volume collection of recent research results related to hypergeometric functions The second volume Contemporary Mathematics Volume 819 is titled Applications and q Extensions of Hypergeometric Functions This volume contains the proceedings of a minisymposium and two AMS special sessions in three conferences Minisymposium on All Things Hypergeometric q series and Generalizations at the 16th International Symposium on Orthogonal Polynomials Special Functions and Applications OPSFA 16 June 13 17 2022 Centre de Recherches Mathématiques Montréal Québec Canada AMS Special Session on Hypergeometric Functions and q series at the 2022 AMS Fall Western Sectional Meeting October 22 23 2022 University of Utah Salt Lake City Utah and the AMS Special Session on Hypergeometric Functions q series and Generalizations at the 2023 AMS Spring Eastern Virtual Sectional Meeting April 1 2 2023 This book provides a sampling of current mathematical research related to the Gauss hypergeometric function and as well its immediate generalizations and extensions This includes the generalized hypergeometric functions that originated with Kummer as well as such classical special functions as Lam and Heun functions It also includes certain functions relevant to algebraic geometry such as hypergeometric functions over finite fields All research articles come with extensive bibliographies and can serve as entry points to the current literature *The Orbit Method in Representation Theory* Dulfo, Pederson, Vergne, 2012-12-06 Ever since its introduction around 1960 by Kirillov the orbit method has played a major role in representation theory of Lie groups and Lie algebras This book contains the proceedings of a conference held from August 29 to September 2 1988 at the University of Copenhagen about the orbit method in representation theory It contains ten articles most of which are original research papers by well known mathematicians in the field and it reflects the fact that the orbit method plays an important role in the representation theory of semisimple Lie groups solvable Lie groups and even more general Lie groups and also in the theory of enveloping algebras *Representation Theory and Automorphic Forms* T. N. Bailey, Anthony W. Knap, 1997 The lectures from a course in the representation theory of semi simple groups automorphic forms and the relations between them The purpose is to help analysts make systematic use of Lie groups in work on harmonic analysis differential equations and mathematical physics and to provide number theorists with the representation theoretic input to Wiles's proof of Fermat's Last Theorem Begins

with an introductory treatment of structure theory and ends with the current status of functionality Annotation copyrighted by Book News Inc Portland OR *Floquet Theory for Partial Differential Equations* P.A. Kuchment,1993-07-01 Linear differential equations with periodic coefficients constitute a well developed part of the theory of ordinary differential equations 17 94 156 177 178 272 389 They arise in many physical and technical applications 177 178 272 A new wave of interest in this subject has been stimulated during the last two decades by the development of the inverse scattering method for integration of nonlinear differential equations This has led to significant progress in this traditional area 27 71 72 111 119 250 276 277 284 286 287 312 313 337 349 354 392 393 403 404 At the same time many theoretical and applied problems lead to periodic partial differential equations We can mention for instance quantum mechanics 14 18 40 54 60 91 92 107 123 157 160 192 193 204 315 367 412 414 415 417 hydrodynamics 179 180 elasticity theory 395 the theory of guided waves 87 89 208 300 homogenization theory 29 41 348 direct and inverse scattering 175 206 216 314 388 406 408 parametric resonance theory 122 178 and spectral theory and spectral geometry 103 105 381 382 389 There is a significant distinction between the cases of ordinary and partial differential periodic equations The main tool of the theory of periodic ordinary differential equations is the so called Floquet theory 17 94 120 156 177 267 272 389 Its central result is the following theorem sometimes called Floquet Lyapunov theorem 120 267

Spectral Analysis on Standard Locally Homogeneous Spaces Fanny Kassel,Toshiyuki Kobayashi,2025-05-15 A groundbreaking theory has emerged for spectral analysis of pseudo Riemannian locally symmetric spaces extending beyond the traditional Riemannian framework The theory introduces innovative approaches to global analysis of locally symmetric spaces endowed with an indefinite metric Breakthrough methods in this area are introduced through the development of the branching theory of infinite dimensional representations of reductive groups which is based on geometries with spherical hidden symmetries The book elucidates the foundational principles of the new theory incorporating previously inaccessible material in the literature The book covers three major topics 1 Theory of Transferring Spectra It presents a novel theory on transferring spectra along the natural fiber bundle structure of pseudo Riemannian locally homogeneous spaces over Riemannian locally symmetric spaces 2 Spectral Theory It explores spectral theory for pseudo Riemannian locally symmetric spaces including the proof of the essential self adjointness of the pseudo Riemannian Laplacian spectral decomposition of compactly supported smooth functions and the Plancherel type formula 3 Analysis of the Pseudo Riemannian Laplacian It establishes the abundance of real analytic joint eigenfunctions and the existence of an infinite L^2 spectrum under certain additional conditions

Chaotic Behavior in Quantum Systems Giulio Casati,2012-12-06 Six years ago in June 1977 the first international conference on chaos in classical dynamical systems took place here in Como For the first time physicists mathematicians biologists chemists economists and others got together to discuss the relevance of the recent progress in nonlinear classical dynamics for their own research field Immediately after publication of Nonlinear Science Abstracts started which in turn led to the Physica D Journal and to a

rapid increase of the research activity in the whole area with the creation of numerous Nonlinear Centers around the world During these years great progress has been made in understanding the qualitative behavior of classical dynamical systems and now we can appreciate the beautiful complexity and variety of their motion Meanwhile an increasing number of scientists began to wonder whether and how such beautiful structures would persist in quantum motion Indeed mainly integrable systems have been previously considered by Quantum Mechanics and therefore the problem is open how to describe the qualitative behavior of systems whose classical limit is non integrable The present meeting was organized in view of the fact that scientists working in different fields mathematicians theoretical physicists solid state physicists nuclear physicists chemists and others had common problems Moreover we felt that it was necessary to clarify some fundamental questions concerning the logical basis for the discussion including the very definition of chaos in Quantum Mechanics

Harmonic Analysis on Commutative Spaces Joseph Albert Wolf, 2007 This study starts with the basic theory of topological groups harmonic analysis and unitary representations It then concentrates on geometric structure harmonic analysis and unitary representation theory in commutative spaces

Boundary Value Problems of Mathematical Physics Olga Alexandrovna Ladyzhenskaya, 1975 Abstracts of Papers Presented to the American Mathematical Society American Mathematical Society, 1986 Index of Mathematical Papers, 1985 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

Committees and Commissions in India: 1964-65, 1977 **Reviews in Global Analysis, 1980-86 as Printed in Mathematical Reviews**, 1988

Modern Spherical Functions Masaru Takeuchi, 1994 This book presents an exposition of spherical functions on compact symmetric spaces from the viewpoint of Cartan Selberg Representation theory invariant differential operators and invariant integral operators play an important role in the exposition The author treats compact symmetric pairs spherical representations for compact symmetric pairs the fundamental groups of compact symmetric spaces and the radial part of an invariant differential operator Also explored are the classical results for spheres and complex projective spaces and the relation between spherical functions and harmonic polynomials This book is suitable as a graduate textbook

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