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# **Hardy Spaces on Homogenous Groups (MN-28), Volume 28**

GERALD B. FOLLAND AND

ELIAS M. STEIN



PRINCETON

# Hardy Spaces On Homogeneous Groups Hardy Spaces On Homogeneous Groups

**Ying Liu**



## **Hardy Spaces On Homogeneous Groups Hardy Spaces On Homogeneous Groups:**

**Hardy Spaces on Homogeneous Groups** Gerald B. Folland, 1982      **Hardy Spaces on Homogeneous Groups**

Gerald B. Folland, Elias M. Stein, 1982-06-21 The object of this monograph is to give an exposition of the real variable theory of Hardy spaces  $H^p$  spaces This theory has attracted considerable attention in recent years because it led to a better understanding in  $\mathbb{R}^n$  of such related topics as singular integrals multiplier operators maximal functions and real variable methods generally Because of its fruitful development a systematic exposition of some of the main parts of the theory is now desirable In addition to this exposition these notes contain a recasting of the theory in the more general setting where the underlying  $\mathbb{R}^n$  is replaced by a homogeneous group The justification for this wider scope comes from two sources 1 the theory of semi simple Lie groups and symmetric spaces where such homogeneous groups arise naturally as boundaries and 2 certain classes of non elliptic differential equations in particular those connected with several complex variables where the model cases occur on homogeneous groups The example which has been most widely studied in recent years is that of the Heisenberg group      **Real-Variable Theory of Hardy Spaces Associated with Generalized Herz Spaces of Rafeiro and Samko**

Yinqin Li, Dachun Yang, Long Huang, 2023-02-14 The real variable theory of function spaces has always been at the core of harmonic analysis In particular the real variable theory of the Hardy space is a fundamental tool of harmonic analysis with applications and connections to complex analysis partial differential equations and functional analysis This book is devoted to exploring properties of generalized Herz spaces and establishing a complete real variable theory of Hardy spaces associated with local and global generalized Herz spaces via a totally fresh perspective This means that the authors view these generalized Herz spaces as special cases of ball quasi Banach function spaces In this book the authors first give some basic properties of generalized Herz spaces and obtain the boundedness and the compactness characterizations of commutators on them Then the authors introduce the associated Herz Hardy spaces localized Herz Hardy spaces and weak Herz Hardy spaces and develop a complete real variable theory of these Herz Hardy spaces including their various maximal function atomic molecular as well as various Littlewood Paley function characterizations As applications the authors establish the boundedness of some important operators arising from harmonic analysis on these Herz Hardy spaces Finally the inhomogeneous Herz Hardy spaces and their complete real variable theory are also investigated With the fresh perspective and the improved conclusions on the real variable theory of Hardy spaces associated with ball quasi Banach function spaces all the obtained results of this book are new and their related exponents are sharp This book will be appealing to researchers and graduate students who are interested in function spaces and their applications      **Anisotropic Hardy Spaces and**

**Wavelets** Marcin Bownik, 2003 Investigates the anisotropic Hardy spaces associated with very general discrete groups of dilations This book includes the classical isotropic Hardy space theory of Fefferman and Stein and parabolic Hardy space theory of Calderon and Torchinsky      Real-Variable Theory of Musielak-Orlicz Hardy Spaces Dachun Yang, Yiyu Liang, Luong

Dang Ky,2017-05-09 The main purpose of this book is to give a detailed and complete survey of recent progress related to the real variable theory of Musielak Orlicz Hardy type function spaces and to lay the foundations for further applications The real variable theory of function spaces has always been at the core of harmonic analysis Recently motivated by certain questions in analysis some more general Musielak Orlicz Hardy type function spaces were introduced These spaces are defined via growth functions which may vary in both the spatial variable and the growth variable By selecting special growth functions the resulting spaces may have subtler and finer structures which are necessary in order to solve various endpoint or sharp problems This book is written for graduate students and researchers interested in function spaces and in particular Hardy type spaces **Hardy Spaces Associated to Non-Negative Self-Adjoint Operators Satisfying Davies-Gaffney**

**Estimates** Steve Hofmann,2011 Let  $X$  be a metric space with doubling measure and  $L$  be a non negative self adjoint operator satisfying Davies Gaffney bounds on  $L^2(X)$  In this article the authors present a theory of Hardy and BMO spaces associated to  $L$  including an atomic or molecular decomposition square function characterization and duality of Hardy and BMO spaces Further specializing to the case that  $L$  is a Schrodinger operator on  $\mathbb{R}^n$  with a non negative locally integrable potential the authors establish additional characterizations of such Hardy spaces in terms of maximal functions Finally they define Hardy spaces  $H_{p,L}(X)$  for  $p \geq 1$  which may or may not coincide with the space  $L^p(X)$  and show that they interpolate with  $H_{1,L}(X)$  spaces by the complex method *Pointwise Variable Anisotropic Function Spaces on  $\mathbb{R}^n$*  Shai Dekel,2022-04-04

Spaces of homogeneous type were introduced as a generalization to the Euclidean space and serve as a sufficient setting in which one can generalize the classical isotropic Harmonic analysis and function space theory This setting is sometimes too general and the theory is limited Here we present a set of flexible ellipsoid covers of  $\mathbb{R}^n$  that replace the Euclidean balls and support a generalization of the theory with fewer limitations *Maximal Functions, Littlewood-Paley Theory, Riesz*

*Transforms and Atomic Decomposition in the Multi-Parameter Flag Setting* Yongsheng Han,Ming-Yi Lee,Ji Li,Brett Wick,2022-08-31 View the abstract *Algebras of Singular Integral Operators with Kernels Controlled by Multiple Norms*

Alexander Nagel,Fulvio Ricci,Elias M. Stein,Stephen Wainger,2019-01-08 The authors study algebras of singular integral operators on  $\mathbb{R}$  and nilpotent Lie groups that arise when considering the composition of Calderón Zygmund operators with different homogeneities such as operators occurring in sub elliptic problems and those arising in elliptic problems These algebras are characterized in a number of different but equivalent ways in terms of kernel estimates and cancellation conditions in terms of estimates of the symbol and in terms of decompositions into dyadic sums of dilates of bump functions The resulting operators are pseudo local and bounded on  $L^p$  While the usual class of Calderón Zygmund operators is invariant under a one parameter family of dilations the operators studied here fall outside this class and reflect a multi parameter structure *Progress in Analysis* International Society for Analysis, Applications, and Computation.

Congress,2003-01-01 The biannual ISAAC congresses provide information about recent progress in the whole area of analysis

including applications and computation This book constitutes the proceedings of the third meeting Contents Volume 1  
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complex numerical analysis as well as mathematical physics

**Progress In Analysis, Proceedings Of The 3rd Isaac  
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This book constitutes the proceedings of the third meeting *Progress in Analysis* Heinrich G. W. Begehr, Robert Pertsch  
Gilbert, Man Wah Wong, 2003 The biannual ISAAC congresses provide information about recent progress in the whole area of  
analysis including applications and computation This book constitutes the proceedings of the third meeting Stratified Lie  
Groups and Potential Theory for Their Sub-Laplacians Andrea Bonfiglioli, Ermanno Lanconelli, Francesco  
Uguzzoni, 2007-08-24 This book provides an extensive treatment of Potential Theory for sub Laplacians on stratified Lie  
groups It also provides a largely self contained presentation of stratified Lie groups and of their Lie algebra of left invariant  
vector fields The presentation is accessible to graduate students and requires no specialized knowledge in algebra or  
differential geometry *Quantization on Nilpotent Lie Groups* Veronique Fischer, Michael Ruzhansky, 2016-03-08 This book  
presents a consistent development of the Kohn Nirenberg type global quantization theory in the setting of graded nilpotent  
Lie groups in terms of their representations It contains a detailed exposition of related background topics on homogeneous  
Lie groups nilpotent Lie groups and the analysis of Rockland operators on graded Lie groups together with their associated  
Sobolev spaces For the specific example of the Heisenberg group the theory is illustrated in detail In addition the book

features a brief account of the corresponding quantization theory in the setting of compact Lie groups The monograph is the winner of the 2014 Ferran Sunyer i Balaguer Prize      Advances in Phase Space Analysis of Partial Differential Equations Antonio Bove, Daniele Del Santo, M.K. Venkatesha Murthy, 2009-09-18 The present volume is a collection of papers mainly concerning Phase Space Analysis also known as Microlocal Analysis and its applications to the theory of Partial Differential Equations PDEs The basic idea behind this theory at the crossing of harmonic analysis functional analysis quantum mechanics and algebraic analysis is that many phenomena depend on both position and frequency or wave numbers or momentum and therefore must be understood and described in the phase space Including time and its dual variable the energy leads to the space-time phase space From this perspective major progress has been achieved in the analysis of PDEs over the last forty years based on the development of powerful tools of microlocal analysis A number of the following papers all written by leading experts in their respective fields are expanded versions of talks given at a meeting held in October 2007 at the Certosa di Pontignano a former 1400 cloister sprawling on the hills surrounding Siena The Siena workshop was in honor of Ferruccio Colombini on the occasion of his 60th birthday and it is our pleasure to dedicate to him this volume to which a number of friends and collaborators promptly manifested their willingness to contribute In this sense the present volume can be seen as a scientific portrait of Ferruccio Many people deserve our gratitude We would like to thank all the contributors as well as the people who took part in the workshop who made a lively mathematical attendance      *Encyclopaedia of Mathematics* Michiel Hazewinkel, 2012-12-06 This is the first Supplementary volume to Kluwer's highly acclaimed Encyclopaedia of Mathematics This additional volume contains nearly 600 new entries written by experts and covers developments and topics not included in the already published 10 volume set These entries have been arranged alphabetically throughout A detailed index is included in the book This Supplementary volume enhances the existing 10 volume set Together these eleven volumes represent the most authoritative comprehensive up to date Encyclopaedia of Mathematics available      Multiscale, Nonlinear and Adaptive Approximation Ronald DeVore, Angela Kunoth, 2009-09-16 The book of invited articles offers a collection of high quality papers in selected and highly topical areas of Applied and Numerical Mathematics and Approximation Theory which have some connection to Wolfgang Dahmen's scientific work On the occasion of his 60th birthday leading experts have contributed survey and research papers in the areas of Nonlinear Approximation Theory Numerical Analysis of Partial Differential and Integral Equations Computer Aided Geometric Design and Learning Theory The main focus and common theme of all the articles in this volume is the mathematics building the foundation for most efficient numerical algorithms for simulating complex phenomena      **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

**Harmonic Analysis in China** Minde Cheng, Dong-gao Deng, Sheng Gong, Chung-Chun Yang, 2012-12-06 Harmonic Analysis in China is a collection of surveys and research papers written by distinguished Chinese mathematicians from within the People's Republic of China and expatriates The book covers topics in analytic function spaces of several complex variables integral transforms harmonic analysis on classical Lie groups and manifolds LP estimates of the Cauchy Riemann equations and wavelet transforms The reader will also be able to trace the great influence of the late Professor Loo keng Hua's ideas and methods on research into harmonic analysis on classical domains and the theory of functions of several complex variables Western scientists will thus become acquainted with the unique features and future trends of harmonic analysis in China Audience Analysts as well as engineers and physicists who use harmonic analysis

Harmonic Analysis on the Heisenberg Group Sundaram Thangavelu, 2012-12-06 The Heisenberg group plays an important role in several branches of mathematics such as representation theory partial differential equations number theory several complex variables and quantum mechanics This monograph deals with various aspects of harmonic analysis on the Heisenberg group which is the most commutative among the non commutative Lie groups and hence gives the greatest opportunity for generalizing the remarkable results of Euclidean harmonic analysis The aim of this text is to demonstrate how the standard results of abelian harmonic analysis take shape in the non abelian setup of the Heisenberg group Thangavelu's exposition is clear and well developed and leads to several problems worthy of further consideration Any reader who is interested in pursuing research on the Heisenberg group will find this unique and self contained text invaluable

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