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Harmonic Analysis

*Real-Variable Methods, Orthogonality,
and Oscillatory Integrals*

ELIAS M. STEIN



PRINCETON

Real Variable Methods In Harmonic Analysis

Elias M. Stein, Timothy S. Murphy



Real Variable Methods In Harmonic Analysis:

Real-variable Methods in Harmonic Analysis, 1986-11-06 Real variable Methods in Harmonic Analysis **Harmonic Analysis** Elias M. Stein, Timothy S. Murphy, 1993-08 This book contains an exposition of some of the main developments of the last twenty years in the following areas of harmonic analysis singular integral and pseudo differential operators the theory of Hardy spaces L^p estimates involving oscillatory integrals and Fourier integral operators relations of curvature to maximal inequalities and connections with analysis on the Heisenberg group *Real-Variable Methods in Harmonic Analysis* Alberto Torchinsky, 2016-06-03 Real Variable Methods in Harmonic Analysis deals with the unity of several areas in harmonic analysis with emphasis on real variable methods Active areas of research in this field are discussed from the Calderón Zygmund theory of singular integral operators to the Muckenhoupt theory of A_p weights and the Burkholder Gundy theory of good inequalities The Calderón theory of commutators is also considered Comprised of 17 chapters this volume begins with an introduction to the pointwise convergence of Fourier series of functions followed by an analysis of Cesàro summability The discussion then turns to norm convergence the basic working principles of harmonic analysis centered around the Calderón Zygmund decomposition of locally integrable functions and fractional integration Subsequent chapters deal with harmonic and subharmonic functions oscillation of functions the Muckenhoupt theory of A_p weights and elliptic equations in divergence form The book also explores the essentials of the Calderón Zygmund theory of singular integral operators the good inequalities of Burkholder Gundy the Fefferman Stein theory of Hardy spaces of several real variables Carleson measures and Cauchy integrals on Lipschitz curves The final chapter presents the solution to the Dirichlet and Neumann problems on C^1 domains by means of the layer potential methods This monograph is intended for graduate students with varied backgrounds and interests ranging from operator theory to partial differential equations **Real Variable Methods in Fourier Analysis**, 1981-01-01 Real Variable Methods in Fourier Analysis **Harmonic Analysis (PMS-43), Volume 43** Elias M. Stein, 2016 This book contains an exposition of some of the main developments of the last twenty years in the following areas of harmonic analysis singular integral and pseudo differential operators the theory of Hardy spaces L^p estimates involving oscillatory integrals and Fourier integral operators relations of curvature to maximal inequalities and connections with analysis on the Heisenberg group Harmonic Analysis and Applications Michael Th. Rassias, 2021-04-01 This edited volume presents state of the art developments in various areas in which Harmonic Analysis is applied Contributions cover a variety of different topics and problems treated such as structure and optimization in computational harmonic analysis sampling and approximation in shift invariant subspaces of L^2 R optimal rank one matrix decomposition the Riemann Hypothesis large sets avoiding rough patterns Hardy Littlewood series Navier Stokes equations sleep dynamics exploration and automatic annotation by combining modern harmonic analysis tools harmonic functions in slabs and half spaces Andoni Krauthgamer Razenshteyn characterization of sketchable norms fails for sketchable metrics random matrix

theory multiplicative completion of redundant systems in Hilbert and Banach function spaces Efforts have been made to ensure that the content of the book constitutes a valuable resource for graduate students as well as senior researchers working on Harmonic Analysis and its various interconnections with related areas Beijing Lectures in Harmonic Analysis Elias M. Stein, 1986-11-21 Based on seven lecture series given by leading experts at a summer school at Peking University in Beijing in 1984 this book surveys recent developments in the areas of harmonic analysis most closely related to the theory of singular integrals real variable methods and applications to several complex variables and partial differential equations The different lecture series are closely interrelated each contains a substantial amount of background material as well as new results not previously published The contributors to the volume are R R Coifman and Yves Meyer Robert Fefferman Carlos Kenig Steven G Krantz Alexander Nagel E M Stein and Stephen Wainger *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 Harmonic Analysis on the Real Line Elijah Liflyand, 2021-09-27 This book sketches a path for newcomers into the theory of harmonic analysis on the real line It presents a collection of both basic well known and some less known results that may serve as a background for future research around this topic Many of these results are also a necessary basis for multivariate extensions An extensive bibliography as well as hints to open problems are included The book can be used as a skeleton for designing certain special courses but it is also suitable for self study Real and Functional Analysis Vladimir I. Bogachev, Oleg G. Smolyanov, 2020-02-25 This book is based on lectures given at Mekhmat the Department of Mechanics and Mathematics at Moscow State University one of the top mathematical departments worldwide with a rich tradition of teaching functional analysis Featuring an advanced course on real and functional analysis the book presents not only core material traditionally included in university courses of different levels but also a survey of the most important results of a more subtle nature which cannot be considered basic but which are useful for applications Further it includes several hundred exercises of varying difficulty with tips and references The book is intended for graduate and PhD students studying real and functional analysis as well as mathematicians and physicists whose research is related to functional analysis

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