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Yuan Xu

Approximation Theory and Harmonic Analysis on Spheres and Balls

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**Bernd Hofmann, Antonio Leitão, Jorge
P. Zubelli**



Approximation Theory And Harmonic Analysis On Spheres And Balls:

Approximation Theory and Harmonic Analysis on Spheres and Balls Feng Dai,Yuan Xu,2013-04-17 This monograph records progress in approximation theory and harmonic analysis on balls and spheres and presents contemporary material that will be useful to analysts in this area While the first part of the book contains mainstream material on the subject the second and the third parts deal with more specialized topics such as analysis in weight spaces with reflection invariant weight functions and analysis on balls and simplexes The last part of the book features several applications including cubature formulas distribution of points on the sphere and the reconstruction algorithm in computerized tomography This book is directed at researchers and advanced graduate students in analysis Mathematicians who are familiar with Fourier analysis and harmonic analysis will understand many of the concepts that appear in this manuscript spherical harmonics the Hardy Littlewood maximal function the Marcinkiewicz multiplier theorem the Riesz transform and doubling weights are all familiar tools to researchers in this area Approximation Theory XIV: San Antonio 2013 Gregory E. Fasshauer,Larry L. Schumaker,2014-06-02 These proceedings were prepared in connection with the 14th International Conference on Approximation Theory which was held April 7 10 2013 in San Antonio Texas The conference was the fourteenth in a series of meetings in Approximation Theory held at various locations in the United States The included invited and contributed papers cover diverse areas of approximation theory with a special emphasis on the most current and active areas such as compressed sensing isogeometric analysis anisotropic spaces radial basis functions and splines Classical and abstract approximation is also included The book will be of interest to mathematicians engineers and computer scientists working in approximation theory computer aided geometric design numerical analysis and related application areas **Analysis on h-Harmonics and Dunkl Transforms** Feng Dai,Yuan Xu,2015-01-21 This book provides an introduction to h harmonics and Dunkl transforms These are extensions of the ordinary spherical harmonics and Fourier transforms in which the usual Lebesgue measure is replaced by a reflection invariant weighted measure The authors focus is on the analysis side of both h harmonics and Dunkl transforms Graduate students and researchers working in approximation theory harmonic analysis and functional analysis will benefit from this book **Clifford Analysis and Related Topics** Paula Cerejeiras,Craig A. Nolder,John Ryan,Carmen Judith Vanegas Espinoza,2018-09-07 This book intended to commemorate the work of Paul Dirac highlights new developments in the main directions of Clifford analysis Just as complex analysis is based on the algebra of the complex numbers Clifford analysis is based on the geometric Clifford algebras Many methods and theorems from complex analysis generalize to higher dimensions in various ways However many new features emerge in the process and much of this work is still in its infancy Some of the leading mathematicians working in this field have contributed to this book in conjunction with Clifford Analysis and Related Topics a conference in honor of Paul A M Dirac which was held at Florida State University Tallahassee on December 15 17 2014 The content reflects talks given at the conference as well as

contributions from mathematicians who were invited but were unable to attend Hence much of the mathematics presented here is not only highly topical but also cannot be found elsewhere in print Given its scope the book will be of interest to mathematicians and physicists working in these areas as well as students seeking to catch up on the latest developments

Geometric and Harmonic Analysis on Homogeneous Spaces and Applications Ali Baklouti, Hideyuki

Ishi, 2021-10-29 This book collects a series of important works on noncommutative harmonic analysis on homogeneous spaces and related topics All the authors participated in the 6th Tunisian Japanese conference Geometric and Harmonic Analysis on homogeneous spaces and Applications held at Djerba Island in Tunisia during the period of December 16-19, 2019 The aim of this conference and the five preceding Tunisian Japanese meetings was to keep up with the active development of representation theory interrelated with various other mathematical fields such as number theory algebraic geometry differential geometry operator algebra partial differential equations and mathematical physics The present volume is dedicated to the memory of Takaaki Nomura who organized the series of Tunisian Japanese conferences with great effort and enthusiasm The book is a valuable resource for researchers and students working in various areas of analysis geometry and algebra in connection with representation theory

Frames and Other Bases in Abstract and Function Spaces Isaac

Pesenson, Quoc Thong Le Gia, Azita Mayeli, Hrushikesh Mhaskar, Ding-Xuan Zhou, 2017-06-11 The first of a two volume set on novel methods in harmonic analysis this book draws on a number of original research and survey papers from well known specialists detailing the latest innovations and recently discovered links between various fields Along with many deep theoretical results these volumes contain numerous applications to problems in signal processing medical imaging geodesy statistics and data science The chapters within cover an impressive range of ideas from both traditional and modern harmonic analysis such as the Fourier transform Shannon sampling frames wavelets functions on Euclidean spaces analysis on function spaces of Riemannian and sub Riemannian manifolds Fourier analysis on manifolds and Lie groups analysis on combinatorial graphs sheaves co sheaves and persistent homologies on topological spaces Volume I is organized around the theme of frames and other bases in abstract and function spaces covering topics such as The advanced development of frames including Sigma Delta quantization for fusion frames localization of frames and frame conditioning as well as applications to distributed sensor networks Galerkin like representation of operators scaling on graphs and dynamical sampling A systematic approach to shearlets with applications to wavefront sets and function spaces Prolate and generalized prolate functions spherical Gauss Laguerre basis functions and radial basis functions Kernel methods wavelets and frames on compact and non compact manifolds

Wavelet Analysis on the Sphere Sabrine Arfaoui, Imen Rezgui, Anouar Ben Mabrouk, 2017-03-20 The goal of this monograph is to develop the theory of wavelet harmonic analysis on the sphere By starting with orthogonal polynomials and functional Hilbert spaces on the sphere the foundations are laid for the study of spherical harmonics such as zonal functions The book also discusses the construction of wavelet bases using special

functions especially Bessel Hermite Tchebychev and Gegenbauer polynomials Lebesgue Points and Summability of Higher Dimensional Fourier Series Ferenc Weisz, 2021-06-12 This monograph presents the summability of higher dimensional Fourier series and generalizes the concept of Lebesgue points Focusing on Fej r and Ces ro summability as well as theta summation readers will become more familiar with a wide variety of summability methods Within the theory of higher dimensional summability of Fourier series the book also provides a much needed simple proof of Lebesgue s theorem filling a gap in the literature Recent results and real world applications are highlighted as well making this a timely resource The book is structured into four chapters prioritizing clarity throughout Chapter One covers basic results from the one dimensional Fourier series and offers a clear proof of the Lebesgue theorem In Chapter Two convergence and boundedness results for the l_q summability are presented The restricted and unrestricted rectangular summability are provided in Chapter Three as well as the sufficient and necessary condition for the norm convergence of the rectangular theta means Chapter Four then introduces six types of Lebesgue points for higher dimensional functions Lebesgue Points and Summability of Higher Dimensional Fourier Series will appeal to researchers working in mathematical analysis particularly those interested in Fourier and harmonic analysis Researchers in applied fields will also find this useful Introduction to Radon Transforms Boris Rubin, 2015-11-12 A comprehensive introduction to basic operators of integral geometry and the relevant harmonic analysis for students and researchers Convergence and Summability of Fourier Transforms and Hardy Spaces Ferenc Weisz, 2017-12-27 This book investigates the convergence and summability of both one dimensional and multi dimensional Fourier transforms as well as the theory of Hardy spaces To do so it studies a general summability method known as theta summation which encompasses all the well known summability methods such as the Fej r Riesz Weierstrass Abel Picard Bessel and Rogosinski summations Following on the classic books by Bary 1964 and Zygmund 1968 this is the first book that considers strong summability introduced by current methodology A further unique aspect is that the Lebesgue points are also studied in the theory of multi dimensional summability In addition to classical results results from the past 20 30 years normally only found in scattered research papers are also gathered and discussed offering readers a convenient one stop source to support their work As such the book will be useful for researchers graduate and postgraduate students alike

Functional Analysis and Geometry: Selim Grigorievich Krein Centennial Peter Kuchment, Evgeny Semenov, 2019-07-26 This is the first of two volumes dedicated to the centennial of the distinguished mathematician Selim Grigorievich Krein The companion volume is Contemporary Mathematics Volume 734 Krein was a major contributor to functional analysis operator theory partial differential equations fluid dynamics and other areas and the author of several influential monographs in these areas He was a prolific teacher graduating 83 Ph D students Krein also created and ran for many years the annual Voronezh Winter Mathematical Schools which significantly influenced mathematical life in the former Soviet Union The articles contained in this volume are written by prominent mathematicians former students and colleagues of Selim Krein as well as

lecturers and participants of Voronezh Winter Schools They are devoted to a variety of contemporary problems in functional analysis operator theory several complex variables topological dynamics and algebraic convex and integral geometry

Kernel-based Approximation Methods Using Matlab Gregory E Fasshauer, Michael J Mccourt, 2015-07-30 In an attempt to introduce application scientists and graduate students to the exciting topic of positive definite kernels and radial basis functions this book presents modern theoretical results on kernel based approximation methods and demonstrates their implementation in various settings The authors explore the historical context of this fascinating topic and explain recent advances as strategies to address long standing problems Examples are drawn from fields as diverse as function approximation spatial statistics boundary value problems machine learning surrogate modeling and finance Researchers from those and other fields can recreate the results within using the documented MATLAB code also available through the online library This combination of a strong theoretical foundation and accessible experimentation empowers readers to use positive definite kernels on their own problems of interest

Theory and Applications of Time Series Analysis Olga Valenzuela, Fernando Rojas, Luis Javier Herrera, Héctor Pomares, Ignacio Rojas, 2020-11-20 This book presents a selection of peer reviewed contributions on the latest advances in time series analysis presented at the International Conference on Time Series and Forecasting ITISE 2019 held in Granada Spain on September 25 27 2019 The first two parts of the book present theoretical contributions on statistical and advanced mathematical methods and on econometric models financial forecasting and risk analysis The remaining four parts include practical contributions on time series analysis in energy complex big data time series and forecasting time series analysis with computational intelligence and time series analysis and prediction for other real world problems Given this mix of topics readers will acquire a more comprehensive perspective on the field of time series analysis and forecasting The ITISE conference series provides a forum for scientists engineers educators and students to discuss the latest advances and implementations in the foundations theory models and applications of time series analysis and forecasting It focuses on interdisciplinary research encompassing computer science mathematics statistics and econometrics

Orthogonal Polynomials of Several Variables Charles F. Dunkl, Yuan Xu, 2014-08-21 Updated throughout this revised edition contains 25% new material covering progress made in the field over the past decade

Spherical Sampling Willi Freeden, M. Zuhair Nashed, Michael Schreiner, 2018-05-03 This book presents in a consistent and unified overview results and developments in the field of today's spherical sampling particularly arising in mathematical geosciences Although the book often refers to original contributions the authors made them accessible to graduate students and scientists not only from mathematics but also from geosciences and geoenvironment Building a library of topics in spherical sampling theory it shows how advances in this theory lead to new discoveries in mathematical geodesic geophysical as well as other scientific branches like neuro medicine A must to read for everybody working in the area of spherical sampling

Women in Analysis and PDE Marianna Chatzakou, Michael Ruzhansky, Diana Stoeva, 2024-10-16 Since 2019

Ghent Analysis PDE Center GAPC has been organising international workshops conferences seminars and other scientific events covering a wide range of pioneering topics in Analysis and PDEs In the winter of 2023 the GAPC decided to collect and publish mathematical results presented by women mathematician hosted at the center This collection in the form short papers presented in the current book offers a wide range of state of art in Analysis and PDEs and disseminates the scientific discoveries of GAPC s visitors and members to scientists outside of the center The short papers published in current volume in the subseries Research Perspectives Ghent Analysis and PDE Center within the book series Trends in Mathematics are peer reviewed written versions of the talks presented by women at GAPC events and are grouped accordingly The current volume is strictly speaking in the realm of pure mathematics but aims to be of interest not only to scientists in the field but also to anyone who has an interest to other applied sciences that Analysis and PDEs have applications to The collection will also include the talks given at the two workshops Women in Generalised Functions organised in 2022 and 2023 **The**

method of densities for non-isotropic Boolean models Hoerrmann, Julia, 2015-03-20 This book deals with the Boolean model a basic model of stochastic geometry for the description of porous structures like the pore space in sand stone The main result is a formula which gives in two and three dimensions a series representation of the most important model parameter the intensity using densities of so called harmonic intrinsic volumes which are new observable geometric quantities **New Trends in Parameter Identification for Mathematical Models** Bernd Hofmann, Antonio Leitão, Jorge P. Zubelli, 2018-02-13 The Proceedings volume contains 16 contributions to the IMPA conference New Trends in Parameter

Identification for Mathematical Models Rio de Janeiro Oct 30 Nov 3 2017 integrating the Chemnitz Symposium on Inverse Problems on Tour This conference is part of the Thematic Program on Parameter Identification in Mathematical Models organized at IMPA in October and November 2017 One goal is to foster the scientific collaboration between mathematicians and engineers from the Brazilian European and Asian communities Main topics are iterative and variational regularization methods in Hilbert and Banach spaces for the stable approximate solution of ill posed inverse problems novel methods for parameter identification in partial differential equations problems of tomography solution of coupled conduction radiation problems at high temperatures and the statistical solution of inverse problems with applications in physics *World Women*

in Mathematics 2018 Carolina Araujo, Georgia Benkart, Cheryl E. Praeger, Betül Tanbay, 2019-11-16 The first World Meeting for Women in Mathematics WM 2 was a satellite event of the International Congress of Mathematicians ICM 2018 in Rio de Janeiro With a focus on Latin America the first WM 2 brought together mathematicians from all over the world to celebrate women mathematicians and also to reflect on gender issues in mathematics challenges initiatives and perspectives for the future Its activities were complemented by a panel discussion organized by the Committee for Women in Mathematics CWM of the International Mathematical Union IMU inside the ICM 2018 entitled The gender gap in mathematical and natural sciences from a historical perspective This historical proceedings book organized by CWM in coordination with the

Association for Women in Mathematics records the first WM 2 and the CWM panel discussion at ICM 2018 The first part of the volume includes a report of activities with pictures of the first WM 2 and a tribute to Maryam Mirzakhani the first woman to be awarded the Fields medal It also comprises survey research papers from invited lecturers which provide panoramic views of different fields in pure and applied mathematics The second part of the book contains articles from the panelists of the CWM panel discussion which consider the historical context of the gender gap in mathematics It includes an analysis of women lecturers in the ICM since its inception This book is dedicated to the memory of Maryam Mirzakhani

Introduction to Analysis in Several Variables: Advanced Calculus Michael E. Taylor, 2020-07-27 This text was produced for the second part of a two part sequence on advanced calculus whose aim is to provide a firm logical foundation for analysis The first part treats analysis in one variable and the text at hand treats analysis in several variables After a review of topics from one variable analysis and linear algebra the text treats in succession multivariable differential calculus including systems of differential equations and multivariable integral calculus It builds on this to develop calculus on surfaces in Euclidean space and also on manifolds It introduces differential forms and establishes a general Stokes formula It describes various applications of Stokes formula from harmonic functions to degree theory The text then studies the differential geometry of surfaces including geodesics and curvature and makes contact with degree theory via the Gauss Bonnet theorem The text also takes up Fourier analysis and bridges this with results on surfaces via Fourier analysis on spheres and on compact matrix groups

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