# FOURIER ANALYSIS IN SPACES OF SHIFTS

A. Yu. Ulitskaya[1]

**Abstract**

In this paper, we develop a continual analog of decomposition over orthogonal bases in spaces generated by equidistant shifts of a single function. By doing so, we obtain an explicit expression for the best approximation by spaces of shifts in $L_2(\mathbb{R})$. The result is formulated in terms of classical Fourier transform and tends to have various applications in approximation by spaces of shifts and, in particular, in spline approximation.

**Keywords** Spaces of shifts · The best approximation · Fourier transform

**2010 Mathematics subject classification** 42A38 · 41A30

## Notation

In what follows, $\mathbb{R}$, $\mathbb{Z}$, $\mathbb{Z}_+$, and $\mathbb{N}$ are the sets of real, integer, non-negative integer, and natural numbers, respectively. Unless otherwise follows from the context, all the functional spaces under consideration can be real or complex. If $p \in [1, +\infty)$, $L_p(\mathbb{R})$ is the space of measurable, $p$-integrable on $\mathbb{R}$ functions; $L_\infty(\mathbb{R})$ is the space of essentially bounded functions on $\mathbb{R}$. The norms in these spaces are defined by

$$\|f\|_{L_p(\mathbb{R})} = \left( \int_{\mathbb{R}} |f|^p \right)^{1/p}, \quad \|f\|_{L_\infty(\mathbb{R})} = \operatorname*{vrai\,sup}_{\mathbb{R}} |f|,$$

respectively. The spaces $L_p[a, b]$ are defined similarly. Furthermore, for $p \in [1, +\infty)$, let $\ell_p(\mathbb{Z})$ be the space of two-sided sequences $a = \{a_k\}_{k \in \mathbb{Z}}$ for which $\|a\|_{\ell_p(\mathbb{Z})} = \left( \sum_{k \in \mathbb{Z}} |a_k|^p \right)^{1/p} < +\infty$.

The space of compactly supported infinitely differentiable functions on $\mathbb{R}$ is denoted by $C_0^{(\infty)}(\mathbb{R})$.

The symbol $\langle \cdot, \cdot \rangle_{\mathcal{H}}$ denotes the inner product in the Hilbert space $\mathcal{H}$:

$$E(f, \mathfrak{R})_p = \inf_{T \in \mathfrak{R}} \|f - T\|_p$$

is the best approximation of $f$ in $L_p$ by the set $\mathfrak{R} \subset L_p$.

The Fourier transform of the function $f \in L_1(\mathbb{R})$ is defined by the formula

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# Topics In Fourier Analysis And Function Spaces

**Hans-Jurgen Schmeisser,Hans Triebel**

**Topics In Fourier Analysis And Function Spaces:**

*Topics in Fourier Analysis and Function Spaces* Hans-Jurgen Schmeisser,Hans Triebel,1987-03-11 A book dealing with several classes of Besov Hardy Sobolev function spaces on the Euclidean n space and the n torus Periodic weighted and anisotropic spaces are discussed as well as spaces in which properties of dominating mixed smoothness predominate **Topics in Fourier Analysis and Function Spaces** Hans-Jürgen Schmeisser,Hans Triebel,1987 **From Vector Spaces to Function Spaces** Yutaka Yamamoto,2012-01-01 This book provides a treatment of analytical methods of applied mathematics It starts with a review of the basics of vector spaces and brings the reader to an advanced discussion of applied mathematics including the latest applications to systems and control theory The text is designed to be accessible to those not familiar with the material and useful to working scientists engineers and mathematics students The author provides the motivations of definitions and the ideas underlying proofs but does not sacrifice mathematical rigor From Vector Spaces to Function Spaces presents an easily accessible discussion of analytical methods of applied mathematics from vector spaces to distributions Fourier analysis and Hardy spaces with applications to system theory an introduction to modern functional analytic methods to better familiarize readers with basic methods and mathematical thinking and an understandable yet penetrating treatment of such modern methods and topics as function spaces and distributions Fourier and Laplace analyses and Hardy spaces **Recent Applications of Harmonic Analysis to Function Spaces, Differential Equations, and Data Science** Isaac Pesenson,Quoc Thong Le Gia,Azita Mayeli,Hrushikesh Mhaskar,Ding-Xuan Zhou,2017-08-09 The second 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 II is organized around the theme of recent applications of harmonic analysis to function spaces differential equations and data science covering topics such as The classical Fourier transform the non linear Fourier transform FBI transform cardinal sampling series and translation invariant linear systems Recent results concerning harmonic analysis on non Euclidean spaces such as graphs and partially ordered sets Applications of harmonic analysis to data science and statistics Boundary value problems for PDE s including the Runge Walsh theorem for the oblique derivative problem of physical geodesy **Forier analysis and function spaces** Hans Triebel,1977 **Methods of Fourier Analysis and Approximation Theory** Michael Ruzhansky,Sergey Tikhonov,2016-03-11 Different facets of interplay between harmonic analysis and approximation theory

are covered in this volume The topics included are Fourier analysis function spaces optimization theory partial differential equations and their links to modern developments in the approximation theory The articles of this collection were originated from two events The first event took place during the 9th ISAAC Congress in Krakow Poland 5th 9th August 2013 at the section Approximation Theory and Fourier Analysis The second event was the conference on Fourier Analysis and Approximation Theory in the Centre de Recerca Matem tica CRM Barcelona during 4th 8th November 2013 organized by the editors of this volume All articles selected to be part of this collection were carefully reviewed      Recent Applications of Harmonic Analysis to Function Spaces, Differential Equations, and Data Science Isaac Pesenson,Quoc Thong Le Gia,Azita Mayeli,Hrushikesh Mhaskar,Ding-Xuan Zhou,2017      Modern Fourier Analysis Loukas Grafakos,2009-04-28 The great response to the publication of the book Classical and Modern Fourier Analysishasbeenverygratifying IamdelightedthatSpringerhasofferedtopublish the second edition of this book in two volumes Classical Fourier Analysis 2nd Edition and Modern Fourier Analysis 2nd Edition These volumes are mainly addressed to graduate students who wish to study Fourier analysis This second volume is intended to serve as a text for a seco semester course in the subject It is designed to be a continuation of the rst v ume Chapters 1 5 in the rst volume contain Lebesgue spaces Lorentz spaces and interpolation maximal functions Fourier transforms and distributions an introd tion to Fourier analysis on the n torus singular integrals of convolution type and Littlewood Paley theory Armed with the knowledgeof this material in this volume the reader encounters more advanced topics in Fourier analysis whose development has led to important theorems These theorems are proved in great detail and their proofs are organized to present the ow of ideas The exercises at the end of each section enrich the material of the corresponding section and provide an opportunity to develop ad tional intuition and deeper comprehension The historical notes in each chapter are intended to provide an account of past research but also to suggest directions for further investigation The auxiliary results referred to the appendix can be located in the rst volume

**Functional Analysis** Elias M. Stein,Rami Shakarchi,2011-09-11 This book covers such topics as Lp spaces distributions Baire category probability theory and Brownian motion several complex variables and oscillatory integrals in Fourier analysis The authors focus on key results in each area highlighting their importance and the organic unity of the subject Provided by publisher      **Fourier Series, Fourier Transforms, and Function Spaces: A Second Course in Analysis** Tim Hsu,2020-02-10 Fourier Series Fourier Transforms and Function Spaces is designed as a textbook for a second course or capstone course in analysis for advanced undergraduate or beginning graduate students By assuming the existence and properties of the Lebesgue integral this book makes it possible for students who have previously taken only one course in real analysis to learn Fourier analysis in terms of Hilbert spaces allowing for both a deeper and more elegant approach This approach also allows junior and senior undergraduates to study topics like PDEs quantum mechanics and signal processing in a rigorous manner Students interested in statistics time series machine learning kernel methods mathematical physics

quantum mechanics or electrical engineering signal processing will find this book useful With 400 problems many of which guide readers in developing key theoretical concepts themselves this text can also be adapted to self study or an inquiry based approach Finally of course this text can also serve as motivation and preparation for students going on to further study in analysis **Theory of Function Spaces** Hans Triebel,1983-01-01 The book deals with the two scales Bsp q and Fsp q of spaces of distributions where s and 0p q which include many classical and modern spaces such as H lder spaces Zygmund classes Sobolev spaces Besov spaces Bessel potential spaces Hardy spaces and spaces of BMO type It is the main aim of this book to give a unified treatment of the corresponding spaces on the Euclidean n space Rsubn **Introduction to Fourier Analysis on Euclidean Spaces** Elias M. Stein,Guido Weiss,1971-11-21 The authors present a unified treatment of basic topics that arise in Fourier analysis Their intention is to illustrate the role played by the structure of Euclidean spaces particularly the action of translations dilatations and rotations and to motivate the study of harmonic analysis on more general spaces having an analogous structure e g symmetric spaces *Theory of Function Spaces II* Hans Triebel,2010-05-18 **Classical Fourier Analysis** Loukas Grafakos,2008-09-18 The primary goal of this text is to present the theoretical foundation of the field of Fourier analysis This book is mainly addressed to graduate students in mathematics and is designed to serve for a three course sequence on the subject The only prerequisite for understanding the text is satisfactory completion of a course in measure theory Lebesgue integration and complex variables This book is intended to present the selected topics in some depth and stimulate further study Although the emphasis falls on real variable methods in Euclidean spaces a chapter is devoted to the fundamentals of analysis on the torus This material is included for historical reasons as the genesis of Fourier analysis can be found in trigonometric expansions of periodic functions in several variables While the 1st edition was published as a single volume the new edition will contain 120 pp of new material with an additional chapter on time frequency analysis and other modern topics Asa result the book is now being published in 2 separate volumes the first volume containing the classical topics Lp Spaces Littlewood Paley Theory Smoothness etc the second volume containing the modern topics weighted inequalities wavelets atomic decomposition etc From a review of the first edition Grafakos s book is very user friendly with numerous examples illustrating the definitions and ideas It is more suitable for readers who want to get a feel for current research The treatment is thoroughly modern with free use of operators and functional analysis Morever unlike many authors Grafakos has clearly spent a great deal of time preparing the exercises Ken Ross MAA Online **Function Spaces and Inequalities** Pankaj Jain,Hans-Jürgen Schmeisser,2017-10-20 This book features original research and survey articles on the topics of function spaces and inequalities It focuses on variable grand small Lebesgue spaces Orlicz spaces Lorentz spaces and Morrey spaces and deals with mapping properties of operators weighted inequalities pointwise multipliers and interpolation Moreover it considers Sobolev Besov and Triebel Lizorkin type smoothness spaces The book includes papers by leading international researchers presented at the International Conference

on Function Spaces and Inequalities held at the South Asian University New Delhi India on 11 15 December 2015 which focused on recent developments in the theory of spaces with variable exponents It also offers further investigations concerning Sobolev type embeddings discrete inequalities and harmonic analysis Each chapter is dedicated to a specific topic and written by leading experts providing an overview of the subject and stimulating future research **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 *Functional Analysis, Harmonic Analysis, and Image Processing* Michael Cwikel,Mario Milman,2017-07-26 This volume is dedicated to the memory of Bj rn Jawerth It contains original research contributions and surveys in several of the areas of mathematics to which Bj rn made important contributions Those areas include harmonic analysis image processing and functional analysis which are of course interrelated in many significant and productive ways Among the contributors are some of the world s leading experts in these areas With its combination of research papers and surveys this book may become an important reference and research tool This book should be of interest to advanced graduate students and professional researchers in the areas of functional analysis harmonic analysis image processing and approximation theory It combines articles presenting new research with insightful surveys written by foremost experts *Fourier Analysis and Function Spaces* Hans Triebel,1977 **Fourier Analysis** Elias M. Stein,Rami Shakarchi,2003-04-06 This first volume a three part introduction to the subject is intended for students with a beginning knowledge of mathematical analysis who are motivated to discover the ideas that shape Fourier analysis It begins with the simple conviction that Fourier arrived at in the early nineteenth century when studying problems in the physical sciences that an arbitrary function can be written as an infinite sum of the most basic trigonometric functions

The first part implements this idea in terms of notions of convergence and summability of Fourier series while highlighting applications such as the isoperimetric inequality and equidistribution The second part deals with the Fourier transform and its applications to classical partial differential equations and the Radon transform a clear introduction to the subject serves to avoid technical difficulties The book closes with Fourier theory for finite abelian groups which is applied to prime numbers in arithmetic progression In organizing their exposition the authors have carefully balanced an emphasis on key conceptual insights against the need to provide the technical underpinnings of rigorous analysis Students of mathematics physics engineering and other sciences will find the theory and applications covered in this volume to be of real interest The Princeton Lectures in Analysis represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them Numerous examples and applications throughout its four planned volumes of which Fourier Analysis is the first highlight the far reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences Stein and Shakarchi move from an introduction addressing Fourier series and integrals to in depth considerations of complex analysis measure and integration theory and Hilbert spaces and finally further topics such as functional analysis distributions and elements of probability theory **Theory of Function Spaces II** Hans Triebel,1992

The book delves into Topics In Fourier Analysis And Function Spaces. Topics In Fourier Analysis And Function Spaces is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Topics In Fourier Analysis And Function Spaces, encompassing both the fundamentals and more intricate discussions.

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