



ON ESTIMATES OF M -TERM APPROXIMATIONS ON CLASSES OF FUNCTIONS WITH BOUNDED MIXED DERIVATIVE IN THE LORENTZ SPACE

G. Akishev^{1,2} · A. Myrzagaliyeva³

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Abstract

The paper considers spaces of periodic functions of several variables, namely, the Lorentz space $L_{p,r}(T^m)$, the class of functions with bounded mixed fractional derivative $W_{q,r}^\sigma$, $1 < q, r < \infty$, and studies the order of the best M -term approximation of a function $f \in L_{p,r}(T^m)$ by trigonometric polynomials. The article consists of the introduction, the main part, and the conclusion. In the introduction, we introduce basic concepts, definitions, and necessary statements for the proof of the main results. You can also find information about previous results on the topic. In the main part, we establish exact-order estimates for the best M -term approximations of functions of the class $W_{q,r}^\sigma$ in the norm of the space $L_{p,r_2}(T^m)$ for various relations between the parameters p, q, r_1, r_2 .

Keywords Lorentz space · Mixed derivative · Trigonometric polynomial · Best M -term approximation

Mathematics Subject Classification MSC 41A10 · MSC 41A25 · 42A05

Introduction

Let N, Z, R be sets of natural, integer, and real numbers, respectively, and $Z_+ = N \cup \{0\}$, and R^m be an m -dimensional Euclidean space of points $\bar{x} = (x_1, \dots, x_m)$ with real coordinates; $T^m = [0, 2\pi)^m$ and $I^m = [0, 1)^m$ be m -dimensional cubes. Furthermore, Z^m and Z_+^m are m -fold Cartesian product of the sets Z and Z_+ , respectively. We denote by $L_{p,r}(T^m)$ the Lorentz space of all real-valued Lebesgue measurable functions f that have 2π -period in each variable and for which the quantity

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Approximation Of Functions With Bounded Mixed Derivative

Roald M. Trigub, Eduard S. Belinsky



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Multivariate Approximation V. Temlyakov, 2018-07-19 Self contained presentation of multivariate approximation from classical linear approximation to contemporary nonlinear approximation **Proceedings of the Steklov Institute of**

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Belinsky, 2012-11-07 In Fourier Analysis and Approximation of Functions basics of classical Fourier Analysis are given as well as those of approximation by polynomials splines and entire functions of exponential type In Chapter 1 which has an introductory nature theorems on convergence in that or another sense of integral operators are given In Chapter 2 basic properties of simple and multiple Fourier series are discussed while in Chapter 3 those of Fourier integrals are studied The first three chapters as well as partially Chapter 4 and classical Wiener Bochner Bernstein Khintchin and Beurling theorems in Chapter 6 might be interesting and available to all familiar with fundamentals of integration theory and elements of Complex Analysis and Operator Theory Applied mathematicians interested in harmonic analysis and or numerical methods based on ideas of Approximation Theory are among them In Chapters 6-11 very recent results are sometimes given in certain directions Many of these results have never appeared as a book or certain consistent part of a book and can be found only in periodicals looking for them in numerous journals might be quite onerous thus this book may work as a reference source The methods used in the book are those of classical analysis Fourier Analysis in finite dimensional Euclidean space Diophantine Analysis and random choice **Wavelet Analysis and Multiresolution Methods** Tian-Xiao He, 2000-05-05 This volume contains papers selected from the Wavelet Analysis and Multiresolution Methods Session of the AMS meeting held at the University of Illinois at Urbana Champaign The contributions cover construction analysis computation and application of

multiwavelets scaling vectors nonhomogenous refinement multivariate orthogonal and biorthogonal *Topological, Projective, and Combinatorial Properties of Spaces* G. Čoĝošvili, 1992 Topological Projective Combinatorial Properties Of Spaces **Probability Theory, Function Theory, Mechanics** Илья́ Vasil'evich Prokhorov, 1990 This is a translation of the fifth and final volume in a special cycle of publications in commemoration of the 50th anniversary of the Steklov Mathematical Institute of the Academy of Sciences in the USSR The purpose of the special cycle was to present surveys of

work on certain important trends and problems pursued at the Institute Because the choice of the form and character of the surveys were left up to the authors the surveys do not necessarily form a comprehensive overview but rather represent the authors perspectives on the important developments

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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 Matemàtica 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

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