

SHARP CONSTANTS OF APPROXIMATION THEORY. III. POLYNOMIAL INEQUALITIES OF DIFFERENT METRICS ON CONVEX SETS

MICHAEL I. GANZBURG

ABSTRACT. Let $V \subset \mathbb{R}^m$ be a centrally symmetric convex body and let $V^* \subset \mathbb{R}^m$ be its polar. We prove limit relations between the sharp constants in the multivariate Markov-Bernstein-Nikolskii type inequalities for algebraic polynomials on V^* and the corresponding constants for entire functions of exponential type with the spectrum in V .

1. INTRODUCTION

We continue the study of the sharp constants in multivariate inequalities of approximation theory that began in [16] and [17]. In this paper we prove limit relations between the sharp constants in the multivariate Markov-Bernstein-Nikolskii type inequalities for algebraic polynomials on convex sets and entire functions of exponential type.

Notation. Let \mathbb{R}^m be the Euclidean m -dimensional space with elements $x = (x_1, \dots, x_m)$, $y = (y_1, \dots, y_m)$, $t = (t_1, \dots, t_m)$, $u = (u_1, \dots, u_m)$, the inner product $t \cdot y := \sum_{j=1}^m t_j y_j$, and the norm $|t| := \sqrt{t \cdot t}$. Next, $\mathbb{C}^m := \mathbb{R}^m + i\mathbb{R}^m$ is the m -dimensional complex space with elements $z = (z_1, \dots, z_m) = x + iy$ and the norm $|z| := \sqrt{|x|^2 + |y|^2}$; \mathbb{Z}^m denotes the set of all integral lattice points in \mathbb{R}^m ; and \mathbb{Z}_+^m is a subset of \mathbb{Z}^m of all points with nonnegative coordinates. We also use multi-indices $\beta = (\beta_1, \dots, \beta_m) \in \mathbb{Z}_+^m$ and $\alpha = (\alpha_1, \dots, \alpha_m) \in \mathbb{Z}_+^m$ with

$$|\beta| := \sum_{j=1}^m \beta_j, \quad |\alpha| := \sum_{j=1}^m \alpha_j, \quad y^\beta := y_1^{\beta_1} \cdots y_m^{\beta_m}, \quad D^\alpha := \frac{\partial^{|\alpha|}}{\partial y_1^{\alpha_1}} \cdots \frac{\partial^{|\alpha|}}{\partial y_m^{\alpha_m}}.$$

Let $\mathcal{P}_{n,m}$ be a set of all polynomials $P(y) = \sum_{|\beta| \leq n} c_\beta y^\beta$ in m variables of degree at most n , $n \in \mathbb{Z}_+^1$, with complex coefficients. Given $\sigma \in \mathbb{R}^m$, $\sigma_j > 0$, $1 \leq j \leq m$, and $M > 0$, let $\Pi^m(\sigma) := \{t \in \mathbb{R}^m : |t_j| \leq \sigma_j, 1 \leq j \leq m\}$, $Q^m(M) := \{t \in \mathbb{R}^m : |t_j| \leq M, 1 \leq j \leq m\}$, and $R^m(M) := \{t \in \mathbb{R}^m : |t| \leq M\}$ be the m -dimensional parallelepiped, cube, and ball, respectively.

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Approximation Theory Iii

Francesco Altomare, Michele Campiti



Approximation Theory Iii:

Approximation Theory III Elliott Ward Cheney,1980 Multivariate Approximation Theory III

SCHEMPP,ZELLER,2013-03-07 The Fourth International Symposium on Multivariate Approximation Theory was held at the Oberwolfach Mathematical Research Institute Black Forest W Germany during the week of January 20 26 1985 The preceding conferences on this topic were held in 1976 1979 and 1982 We were pleased to have more than 50 mathematicians from 13 countries in attendance The program included 40 lectures These Proceedings form a record of most of the papers presented at the Symposium The topics treated cover different problems on multivariate approximation such as polynomial approximation on simplices multivariate splines box splines dimension of spline spaces blending methods multivariate Hermite interpolation data smoothing and surface representation and multivariate summation methods We would like to thank the director of the Oberwolfach Mathematical Research Institute Prof Dr M Barner and his staff for providing the facilities Of the people who gave their time to help make this conference a success we would like to mention in particular Prof Dr F J Delvos Siegen Dr G Baszenski College Station Texas and Dipl Math H Nienhaus Siegen Finally our thanks are due to Carl Einsele of Birkhauser Publishers for his valuable cooperation

Approximation Theory III Elliott Ward Cheney,1980 Numerical Methods and Approximation Theory III G. V. Milovanovic,1988 **Multivariate**

Approximation Theory III Walter Schempp,1985-09-01 *Multivariate Approximation Theory III*

SCHEMPP,ZELLER,1985-01-01 The Fourth International Symposium on Multivariate Approximation Theory was held at the Oberwolfach Mathematical Research Institute Black Forest W Germany during the week of January 20 26 1985 The preceding conferences on this topic were held in 1976 1979 and 1982 We were pleased to have more than 50 mathematicians from 13 countries in attendance The program included 40 lectures These Proceedings form a record of most of the papers presented at the Symposium The topics treated cover different problems on multivariate approximation such as polynomial approximation on simplices multivariate splines box splines dimension of spline spaces blending methods multivariate Hermite interpolation data smoothing and surface representation and multivariate summation methods We would like to thank the director of the Oberwolfach Mathematical Research Institute Prof Dr M Barner and his staff for providing the facilities Of the people who gave their time to help make this conference a success we would like to mention in particular Prof Dr F J Delvos Siegen Dr G Baszenski College Station Texas and Dipl Math H Nienhaus Siegen Finally our thanks are due to Carl Einsele of Birkhauser Publishers for his valuable cooperation

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Multivariate Approximation Theory IV
CHUI,SCHEMP,ZELLER,2013-03-08 Multivariate Approximation Theory forms a rapidly evolving field in Applied Mathematics The reason for its particular current interest lies in its impact on Computer Aided Geometric Design CAGD Image Processing Pattern Recognition and Multidimensional Signal Processing Multivariate Bernstein polynomials and box splines for example play an important role in CAGD Conversely the highly important filter bank design problem of signal processing for instance gives rise to a new family of multivariate approximating functions the Gabor wavelets with interesting technological and biological applications The conferences on Multivariate Approximation Theory held at the Mathematical Research Institute at Oberwolfach Black Forest in 1976 1979 1982 1985 and 1989 reflect the progress made in this area and related fields The present volume which is a continuation of the preceding volumes Constructive Theory of Functions of Several Variables Lecture Notes in Mathematics 571 1977 Multivariate Approximation Theory ISNM 51 1979 Multivariate Approximation Theory II ISNM 61 1982 Multivariate Approximation Theory III ISNM 75 1985 is based on the conference held on February 12 18 1989 It includes most of the lectures presented at the Oberwolfach meeting and reveals the wide spectrum of activities in the field of multivariate approximation The organizers are grateful to the Director of the Oberwolfach Mathematical Research Institute Professor Dr M Barner and his staff for providing the facilities and to Dr G Baszenski Professor Dr F J Delvos Dr H **Approximation Theory** Elliott W. Cheney, **Numerical Methods and Approximation Theory III** G.V. Milovanovic, University of Nis. Faculty of Electronic Engineering, 1988 Multivariate Approximation Theory E. W. Cheney, 1986-01-01 The approximation of functions of several variables continues to be a difficult problem in scientific computing because many of the algorithms required for such problems have yet to be written This monograph is written for a broad audience of computational mathematicians and statisticians concerned with the development of algorithms or the derivation of approximations from linear projections of which the interpolating operators are an important example As an aid to both researchers and students a bibliography of more than 200 titles is included

Approximation Theory George Anastassiou, 1992-04-24 Contains the proceedings of the March 1991 annual conference of the Southeastern Approximation Theorists in Memphis Tenn The 34 papers discuss topics of interest to graduate and professional numerical analysts applied and industrial mathematicians engineers and other scientists such as splines

Approximation Theory III Elliott Ward Cheney,1980 **Approximation Theory** Carl De Boor,1986 Presented at a 1986 AMS Short Course this title contains papers that give a brief introduction to approximation theory and some of its areas of active research both theoretical and applied It is best understood by those with a standard first graduate course in real and complex analysis Numerical Methods and Approximation Theory G.V. Milovanovic,1984 **Fundamentals of Approximation Theory** Hrshikesh Narhar Mhaskar,Devidas V. Pai,2000 The field of approximation theory has become so vast that it intersects with every other branch of analysis and plays an increasingly important role in applications in the applied sciences and engineering Fundamentals of Approximation Theory presents a systematic in depth treatment of some basic topics in approximation theory designed to emphasize the rich connections of the subject with other areas of study With an approach that moves smoothly from the very concrete to more and more abstract levels this text provides an outstanding blend of classical and abstract topics The first five chapters present the core of information that readers need to begin research in this domain The final three chapters the authors devote to special topics splined functions orthogonal polynomials and best approximation in normed linear spaces that illustrate how the core material applies in other contexts and expose readers to the use of complex analytic methods in approximation theory Each chapter contains problems of varying difficulty including some drawn from contemporary research Perfect for an introductory graduate level class Fundamentals of Approximation Theory also contains enough advanced material to serve more specialized courses at the doctoral level and to interest scientists and engineers A Course in Approximation Theory Elliott Ward Cheney,William Allan Light,2009-01-13 This textbook is designed for graduate students in mathematics physics engineering and computer science Its purpose is to guide the reader in exploring contemporary approximation theory The emphasis is on multi variable approximation theory i e the approximation of functions in several variables as opposed to the classical theory of functions in one variable Most of the topics in the book heretofore accessible only through research papers are treated here from the basics to the currently active research often motivated by practical problems arising in diverse applications such as science engineering geophysics and business and economics Among these topics are projections interpolation paradigms positive definite functions interpolation theorems of Schoenberg and Micchelli tomography artificial neural networks wavelets thin plate splines box splines ridge functions and convolutions An important and valuable feature of the book is the bibliography of almost 600 items directing the reader to important books and research papers There are 438 problems and exercises scattered through the book allowing the student reader to get a better understanding of the subject *Korovkin-type Approximation Theory and Its Applications* Francesco Altomare,Michele Campiti,1994 The series is devoted to the publication of monographs and high level textbooks in mathematics mathematical methods and their applications Apart from covering important areas of current interest a major aim is to make topics of an interdisciplinary nature accessible to the non specialist The works in this series are addressed to advanced students and researchers in mathematics and theoretical

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in which he or she is interested from the existing textbooks however without a full understanding of the theory one cannot analyze actual experimental data to obtain more basic and realistic physical quantities In particular if one intends to apply the theories in industry accurate understanding and ability to modify the theory are essential

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- Chapter 4: Approximation Theory Iii in Specific Contexts
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