

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

Elliott Ward Cheney



Approximation Theory Iii:

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Approximation Theory Elliott W. Cheney, *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

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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

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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

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