

Contents

Volume 219, 1997

Preface	1
Chebyshev Compact Sets in the Plane <i>A.R. Alimov</i>	2
Disposition Points on a Sphere with Minimum of Energy <i>N.N. Andreev</i>	20
On Two Methods of Generalization of Properties of Univariate Function Systems to Their Tensor Product <i>A.V. Andrianov and V.N. Temlyakov</i>	25
On Delsarte Scheme of Estimating the Contact Numbers <i>V.V. Arestov and A.G. Babenko</i>	36
Differentiation of Location Error <i>V.I. Berdyshev</i>	66
Interpolation and Embeddings of Generalized Function Spaces $B_{p,q}^s, F_{p,q}^s$ on a Domain <i>O.V. Besov</i>	73
Hausdorff–Young–Riesz Theorem in Lorentz Spaces and Multiplicative Inequalities <i>S.V. Bochkarev</i>	96
On the Use of the Block Method for an Approximate Conformal Mapping of a Polygon onto a Rectangle <i>E.A. Volkov</i>	108
On Optimal Recovery of Differentiation Operator <i>V.N. Gabushin</i>	118
On Existence of Best Approximation of a Function of Two Variables by Sums of Plane Waves <i>A.L. Garkavi</i>	123
Some Properties of Multiplicative Orthonormal Systems Applied in Digital Signal Processing <i>A.V. Efimov, A.S. Pospelov, and S.V. Umnyashkin</i>	130
Jackson Constants in the Space $l_2(\mathbb{Z}_2^n)$ <i>V.I. Ivanov and O.I. Smirnov</i>	176
One More Generalization of Bessel’s Inequality and Riesz–Fischer Theorem for Fourier Series with Respect to Uniformly Bounded Orthonormal Systems <i>V.A. Il’in</i>	205
On the Direct Theorem of Approximation Theory of Periodic Functions in Different Metrics <i>N.A. Il’yasov</i>	215

Chebyshev Layer of Manifolds in a Hilbert Space	
<i>M.I. Karlov</i>	231
An Estimate of the Number of Solutions of the n th Degree Congruence in One Variable	
<i>S.V. Konyagin and S.B. Stechkin</i>	245
To the Theory of Implicit Functions	
<i>S.M. Nikol'skii</i>	254
Ridge Approximation, Chebyshev–Fourier Analysis and Optimal Quadrature Formulas	
<i>K.I. Oskolkov</i>	265
On the Global Fiberings Method in Nonlinear Variational Problems	
<i>S.I. Pohozaev</i>	281
Turan's Problem for Trigonometric Sums	
<i>S.B. Stechkin</i>	329
Wavelets Bases in Spaces of Analytic Functions	
<i>Yu.N. Subbotin and N.I. Chernykh</i>	334
Representation and Approximation of Multivariate Periodic Functions with Bounded Mixed Moduli of Smoothness	
<i>Sun Yongsheng and Wang Heping</i>	350
On Partial Sums of Fourier Series of Functions of Bounded Variation	
<i>S.A. Telyakovskii</i>	372
The Best Approximation of a Derivative and Analogs of Landau's Inequality in a Half-space	
<i>O.A. Timoshin</i>	382
On the Structure of Closed Sets of Uniqueness for the Walsh System	
<i>N.N. Kholshchevnikova</i>	394
Smoothing of Functions on a Hilbert Ball	
<i>I.G. Tsar'kov</i>	403
On a Problem of C. de Boor for Multivariate D^m -Splines	
<i>A.Yu. Shadrin</i>	413
Disposition Points on a Torus and Extremal Properties of Polynomials	
<i>V.A. Yudin</i>	447
Correction to Volume 214	458
