

А б и л о в, В. А. — Приближение функций двух переменных арифметическими средними сумм Фурье-Эрмита	9
Б у с л а е в, А. П., В. М. Т и х о м и р о в — Спектры некоторых нелинейных уравнений и поперечники соболевских классов	14
Г а б д у л х а е в, Б. Г., Г. Д. В е л е в — Наилучшие приближения решений функциональных уравнений и оптимизация численных методов	18
Г а л е е в, Э. М. — Поперечники по Колмогорову некоторых классов периодических функций многих переменных	27
Д ж а ф а р о в, А. С. — О свойствах сферического полинома наилучшего приближения	33
Д и н ь З у н г — Приближение классов функций на торе, задаваемых смешанным модулем непрерывности	43
К о р н е й ч у к, Н. П. — О некоторых проблемах полиномиальной и сплайн-аппроксимации	49
О с и л е н к е р, Б. П. — О рядах Фурье по ортогональным полиномам	61
П о т а п о в, М. К., Й. М. Ш а р о в и ч — О приближении функций, аналитических в полосе	66
С т а р к о в, В. В. — Теорема регулярности для универсальных линейноинвариантных семейств функций	76
Т о п у р и я, С. Б. — О суммируемости рядов Фурье-Лапласа на сфере	81
Т р о я н с к и, С. Л. — О Н-свойстве и его связь с некоторыми понятиями выпуклости единичной сферы пространства Банаха	86
Ф е д о р о в, В. М. — Об весовой аппроксимации многочленами функций многих переменных	91
Х р и с т о в, В. X. — Пространства порожденные усредненным модулем гладкости функций многих переменных	97
A b b a s o v, R.A. — On Absolute Convergence of Fourier Transforms	102
A l e x a n d r o v, L.G. — Error Estimations for Numerical Solution of Elliptic Equations	106
A l e k s a n d r o v, V.V. — The Descartes' Rule and the Chebyshev's Systems	113
A n d r e e v, A.B. — Superconvergence of the FEM Approximations of Some Parabolic Equations	119
A n g e l o v, R., S. M a r k o v — Two-Sided Approximation of the Solution of the Initial Problem for Systems of Ordinary Differential Equations Involving Inexact Data	125
B a b a y e v, M.-B.A. — A Whitney Type Theorem for Approximating by Quasipolynomials	128
B a b a y e v, M.-B.A., S. S. M u c h t a r o v — On Approximation by Superpositions in the Mixed Norm	140
B a i s h a n s k i, B.M. — Given Two Spaces of Generalised Dirichlet Polynomials, which One is Closer to X^c ?	145
B a l á z s, K. — Lagrange Interpolation for the Completed Laguerre Abscissas	150
B a r t o s z e w s k i, Z. — On some Approximations in Function Spaces and Their Applications in Numerical Methods	154
B e s v e r s h e n k o, I.I. — Some Questions on Spline-Solution Construction for Ordinary Differential Equations	159
B i n e v, P.G. — Superconvergence in the Spline-Interpolation	164
B j ö r c k, G. — Approximation of Beurling Test Functions by Entire Functions	171
B o m a n, J. — Uniqueness Theorems for Generalized Radon Transforms	173
B o y a d z i e v a, T., P. B o y a d z i e v — Rational Approximation of Analytic Functions	177
B o z h i n o v, N.S. — Cauchy Convolutions and the Multiplier Problem of Root Vector Expansions	182
B r a e s s, D., N. D y n. — On the Uniqueness of Monosplines and Perfect Splines	188
B r a k a l o v a, M.A. — Assymptotical Holomorphy of Some Mappings	194
B r o s o w s k i, B., G. G u e r r e i r o — Refined Kolmogorov-Criterions for Best Rational Chebyshev-Approximation	197

Cheney, E.W. — Recent Progress in Multivariate Approximation	208
Ciesielski, Z. — Spline Bases in Classical Function Spaces on Compact C^∞ Manifolds. Part III	214
Collatz, L. — Approximation of Solution of Differential Equations and of Their Derivatives	224
Cwikel, M., P. Nilson — On Calderon-Mitjagin Couples of Banach Lattices . .	232
Dahmen, W., C. Micchelli — On the Multivariate Euler-Frobenius Polynomials	237
Dappa, H., W. Trebels — Some Applications of the Subordination Principle in Fourier Analysis	244
De Boor, C., K. Höllig, S. D. Riemen Schneider — On Bivariate Cardinal Interpolation	254
Dechevski, L.T. — Network-Norm Error Estimation Using Interpolation of Spaces and Application to Differential Equations	260
Delvos, F.-J. — On Bivariate Hermite Trigonometric Interpolation	266
Dickmeis, W., R.J. Nessel, E. van Wickeren — Some Negative Results on the Comparison of Approximation Processes	273
Ditzian, Z. — Derivatives of Trigonometric Polynomial Approximation	284
Djidjev, H.N. — On the Hausdorff Convergence of Summative Formulae	291
Doktor, P. — Smooth Functions and Zero Traces in Sobolev Space	298
Dontchev, A.L., E. M. Farkhi — Error Estimates for a Discrete Approx- imation to Nonlinear Optimal Processes by Averaged Moduls of Smoothness	300
Drenska, N. T. — The Convergence of the Difference Scheme of the Finite Element Method for the Poisson Equation in a Discrete L_p — Norm . . .	306
Dryanov, D.P. — On the Convergence and Saturation Problem of a Class of Dis- crete Linear Operators of Entire Exponential Type in $L_p (-\infty, \infty)$ Spaces	312
Dunham, C. B. — Difficulties in Rational Chebyshev Approximation	319
El Hatri, M. — Superconvergence in Finite Element Method for a Degenerated Boundary Value Problem	328
Feichtinger, H. G. — Tauberian Theorems on Groups and Banach Modules . . .	334
Feschiev, I. H., M. A. Hemeamin — On Some Extremal Problems for Con- jugate Classes of Functions	346
Fridli, S. — Bernstein-Type Inequalities with Respect to the Vilenkin-Systems . .	352
Godini, G. — Best Approximation in Normed Almost Linear Spaces	356
Gonska, H. H. — On Approximation in $C(X)$	364
Gróf, J. — Uniform Approximation on the Whole Real Line	370
Grozev, G. R. — Optimal Quadrature Formulae for Differentiable Functions . .	376
Gustafson, K. — On the Structure of Finite Element Solenoidal Subspaces . . .	382
Györfvari, J. — Cauchy Problem and Modified Lacunary Spline Functions	392
Hanin, L. G. — Closed Primary Ideals and Point Derivations in Zygmund Algebras	397
Haußmann, W., K. Zeller — Mixed Norm Multivariate Approximation with Blending Functions	403
Hayman, W. K. — The Growth of Quasisymmetric Functions	409
Iliev, G., S. Tashv — A New Estimate of the Degree of Monotone Interpolation	416
Ivanov, K. G. — Approximation by Bernstein Polynomials in L_p Metric	421
Jakimovski, A., D. C. Russell — Hermite Spline Interpolation of Data of Power Growth	430
Karadzhov, G. E. — Asymptotic Behaviour of Spectral Function for Harmonic Oscillator	439
Kindalev, B. S. — Asymptotics of Error for Interpolating Splines of Even Degree	445
Kirov, G.H. — Optimal Quadrature Formulae for Function Classes $W_r H_w$	451
Kiryakova, V. S. — An Application of Meijer's G-Function to Bessel-Type Differential Operators	457
Kocić, L. M., M. S. Stanković — Dominated Approximation of Convex Functions by Positive Linear Operators	463

K o k i l a s h v i l i , V . M . , M . K r b e c — On the Boundedness of Riesz Potentials and Fractional Maximal Functions in Weighted Orlicz Spaces	468
K o k i l a s h v i l i , V . M . , J . R a k o s n i k — Anisotropic Maximal Inequalities with Weights	473
K o v a č e v a , R . — Something Else About the Meromorphic Continuation of Functions	479
K o v á č i k , O . — Some Generalization of Lebesgue and Sobolev Spaces	487
K o w a l s k i , M . A . — A Note on the General Multivariate Moment Problem	493
K r i v e n c o b , Y . P . — The Theory of Non-Classical Problems of the Best Approximation	500
K u c h m i n s k a j a , C . J . — On the Convergence of Two-Dimensional Continued Fractions	501
K u t z a r o v a , D . N . — On an Equivalent Norm in L_1 which is Uniformly Convex in Every Direction	507
L a g o m a s i n o , G . L . , J . I l l á n — A Note on Generalized Quadrature Formulae of Gauss-Jacobi Type	513
L é n á r d , M . — A Spline Interpolational Method for Functions of Several Variables	519
Ł e n s k i , W . — On the Almost Strong Summability and Convergence of Fourier Series	524
L e o p o l d , H . — On a Class of Weighted Function Spaces	528
L e v i n , B . J . — Extremal Problems in Classes of Subharmonic Functions and Their Applications	534
L e w i c k i , G . — An Existence Theorem for Minimal Linear Projections	544
L o r e n t z , R . A . — Some Regular Problems of Bivariate Interpolation	549
L u h , W . — The Intersection of Gronwall Methods with Nörlund and Riesz Methods	563
M á c k i e w i c z , A . — On Piecewise-Linear Approximation and Numerical Minimization of Convex Functions (Some New Optimization Algorithms II)	569
M a l e e v , R . P . — Korovkin Theorem in Rearrangement Invariant Function Spaces	578
M a r l e w s k i , A . — Powers of Bernstein-Type Operators	583
M á t é , A . , P . N e v a i , V . T o t i k — Mean Cesaro Summability of Orthogonal Polynomials	588
M a t e l j e v i ć , M . , M . P a v l o v i ć — \mathbb{L}^p -Behaviour of Power Series with Positive Coefficients and Some Spaces of Analytic Functions	606
M i l o v a n o v i c , I . Z . — On an Extremal Problem in Theory of Approximation	610
M i r o s h n i c h e n k o , V . L . — Convex and Monotone Spline-Interpolation	621
M ü l l e r , M . W . — Optimal Knots for K-Fold Lagrangian Numerical Differentiation	629
M u s i e l a k , H . — On Some Inequalities in Spaces of Integrable Functions	629
N é m e t h , G . — The Gibbs Phenomenon in Generalized Padé Approximation	634
N i k o l o v , K . I . , L . J . N i k o l o v a — Analytic Semi-Groups of Growth ≥ 0 and Interpolation	640
O p i c , B . , A . K u f n e r — Some Inequalities in Weighted Sobolev Spaces	644
O p i t z , H . U . , K . S c h e r e r — A Generalization of the Padé-Approximation to e^x on $[0, \infty)$	649
P á l , J . — On the Dyadic Haar Derivative	658
P e e t r e , J . — On Asplund's Averaging Method — The Interpolation (Function) Way	664
P e t r u s h e v , P . P . — On the Relations Between Rational and Spline Approximation	672
P h i l l i p s , G . M . , P . J . T a y l o r — On the Estimation of Orthogonal Coefficients	675
P l e ś n i a k , W . — Again on Markov's Inequality	679
P o p a , N . — Some New Classes of Perfect Banach Lattices Related to the Carleman Operators and Their Adjoints	684
P o p o v , V . A . — On Diagonal Interpolation Theorem and Its Application	690

Prestin, J. — Trigonometric Interpolation of Functions of Bounded Variation . . .	699
Proinov, P. D. — Uniformly Distributed Matrices and Numerical Integration . . .	704
Prössdorf, S., A. Rathsfold — Strongly Elliptic Singular Integral Equations with Piecewise Continuous Coefficients and the Convergence of Spline Galerkin and Collocation Methods	710
Rahman, Q. I., G. Schmeisser — Uniform Approximation of the Whole Real Line	718
Ramadonov, I. P., M. L. Skwarczynski — An Angle in $L^2(\Phi)$ Determined by Two Plane Domains	726
Richter, W., E. L. Stark — Constructing (Better) Trigonometrical Kernels by Removing Zeroes	731
Ries, S., R. L. Stens — Approximation by Generalized Sampling Series	746
Rofe-Beketov, F. S. — Spectrum Perturbations, the Kneser-Type Constants and the Effective Masses of Zones-Type Potentials	757
Runkel, H. J. — Zero-Free Regions for Polynomials with Applications to Padé- Approximation	767
Rusak, V. N. — Exact Order of Best Rational Approximation on Some Classes of Periodic Functions	772
Ryll, J. — Isomorphisms Between Besov Spaces and Sequence Spaces	776
Šarapudinov, I. I. — On the Hahn Polynomials Application for the Optimal Tabulation of Functions	782
Schempp, W. — Approximation in the Hardy Space $\mathcal{H}^1(D)$ from Local Boundary Values	788
Schmeißer, H. J. — Characterizations of Spaces of Sobolev Type with a Dominating Mixed Derivative by Differences	798
Schmidt, G. — On Complex Spline-Interpolation on the Unit Circle	803
Sendov, Bl. — On a Theorem of H. Whitney	808
Siciak, J. — Approximation and Interpolation by Transcendental Polynomials . .	814
Steinhaus, B. — L_1 -Approximation with Blending Functions	818
Still, G. — On the Approximation of Holomorphic Functions by Müntz Poly- nomials on an Interval Away from the Origin	824
Szalay, I. — On the Banach Space of Uniformly Strong Convergent Fourier Series	830
Székelyhidi, L. — L^p -Approximation by Splines	835
Tamrazov, P. M. — Divided Differences and Moduli of Smoothness of Functions, Function Superpositions and Their Application	840
Tingfan, X. — Degree of Approximation of Hermite-Fejér Interpolation Based on the Zeroes of Legendre Polynomial	852
Tonev, T. V. — Generalized-Analytic Sets in the Parts of Maximal Ideal Space . .	858
Totkov, G. A., M. S. Bazelkov — On the Convergence of Some Quadrature Processes	864
Totkov, G. A., M. S. Bazelkov — Local Interpolation Splines of Odd Degree	870
Vershinin, V. V. — Estimates of the Approximation of Derivatives with the Help of Smoothing Splines	876
Vértesi, P. — Optimal Lebesgue Constants for Polynomial Interpolation	882
Volkov, Y. S. — Divergence of Interpolating Quintic Splines	891
Waszak, A. — Some Remarks on Approximable Elements in Generalised Saks Spaces	896
Winiarski, T. — Limits of Algebraic Subsets of C_n	902
Wronicz, Z. — Moduli of Smoothness Associated with Chebyshev Systems and Approximation by L-Splines	906
Zhenskybaev, A. A. — Extremal Properties of Certain Sets of Splines and Their Applications	917
Židkov, G. V. — Integral Representation and Approximation of Functions on a Hyperboloid	928
НЕРЕШЕННЫЕ ЗАДАЧИ • UNSOLVED PROBLEMS	936