

Contents

Introduction	vii
<i>N. Artamonov</i>	
Exponential Decay of Semigroups for Second-order Non-selfadjoint Linear Differential Equations	1
<i>F.N. Arzikulov</i>	
Infinite Norm Decompositions of C^* -algebras	11
<i>J.A. Ball and V. Bolotnikov</i>	
Canonical Transfer-function Realization for Schur-Agler-class Functions on Domains with Matrix Polynomial Defining Function in \mathbb{C}^n	23
<i>T.L. Belyaeva, V.N. Serkin, A. Hasegawa, J. He and Y. Li</i>	
Generalized Lax Pair Operator Method and Nonautonomous Solitons	57
<i>J.M. Bogoya, A. Böttcher and S.M. Grudsky</i>	
Asymptotics of Individual Eigenvalues of a Class of Large Hessenberg Toeplitz Matrices	77
<i>M. Engliš and H. Upmeier</i>	
Real Berezin Transform and Asymptotic Expansion for Symmetric Spaces of Compact and Non-compact Type	97
<i>Yu.I. Karlovich and V.A. Mozel</i>	
On Nonlocal C^* -algebras of Two-dimensional Singular Integral Operators	115
<i>B.A. Kats</i>	
The Riemann Boundary Value Problem on Non-rectifiable Curves and Fractal Dimensions	137
<i>K.V. Khmelnytskaya and H.C. Rosu</i>	
Bloch Solutions of Periodic Dirac Equations in SPPS Form	153

<i>V.G. Kravchenko, R.C. Marreiros and J.C. Rodriguez</i>	
An Estimate for the Number of Solutions of a homogeneous Generalized Riemann Boundary Value Problem with Shift	163
<i>M.E. Luna-Elizarrarás, M.A. Macías-Cedeño and M. Shapiro</i>	
On the Hyperderivatives of Dirac-hyperholomorphic Functions of Clifford Analysis	179
<i>M. Martínez-García</i>	
On the Discrete Cosine Transform of Weakly Stationary Signals	197
<i>J.E. de la Paz Méndez and A.E. Merzon</i>	
Scattering of a Plane Wave by “Hard-Soft” Wedges	207
<i>A. Meziani</i>	
Behavior of a Class of Second-order Planar Elliptic Equations with Degeneracies	227
<i>V.S. Rabinovich and S. Roch</i>	
Finite Sections of Band-dominated Operators on Discrete Groups ...	239
<i>R.A. Roybal</i>	
Joint Defect Index of a Cyclic Tuple of Symmetric Operators	255
<i>A. Sánchez-Nungaray</i>	
Commutative Algebras of Toeplitz Operators on the Super Upper Half-plane: Super Parabolic Case	263
<i>Ma.Á. Sandoval-Romero</i>	
Measure Characterization involving the Limiting Eigenvalue Distribution for Schrödinger Operators on S^2	281
<i>S.B. Sontz</i>	
Relations Among Various Versions of the Segal-Bargmann Transform	289
<i>M.A. Taneco-Hernández</i>	
Nonlinear Scattering in the Lamb System	307
<i>E. Wagner</i>	
Toeplitz Algebras in Quantum Hopf Fibrations	323