

# Contents

Preface .....	vii
<i>L. Boutet de Monvel</i> Toeplitz Operators and Asymptotic Equivariant Index .....	1
<i>V. Kokilashvili</i> Boundary Value Problems of Analytic and Harmonic Functions in a Domain with Piecewise Smooth Boundary in the Frame of Variable Exponent Lebesgue Spaces .....	17
<i>B.-W. Schulze</i> Edge-degenerate Operators at Conical Exits to Infinity .....	41
<i>Y.P. Apakov</i> On a Method for Solving Boundary Problems for a Third-order Equation with Multiple Characteristics .....	65
<i>G. Avalos and D. Toundykov</i> (Communicated by F. Bucci and I. Lasiecka) On Stability and Trace Regularity of Solutions to Reissner-Mindlin-Timoshenko Equations .....	79
<i>L. Bociu and J.-P. Zolésio</i> (Communicated by F. Bucci and I. Lasiecka) Linearization of a Coupled System of Nonlinear Elasticity and Viscous Fluid .....	93
<i>F. Colombo and D. Guidetti</i> (Communicated by Y. Kurylev) Some Results on the Identification of Memory Kernels .....	121
<i>G. Fragnelli and D. Mugnai</i> (Communicated by F. Bucci and I. Lasiecka) A $k$ -uniform Maximum Principle When 0 is an Eigenvalue .....	139
<i>M. Ghergu</i> Steady-state Solutions for a General Brusselator System .....	153

<i>U.U. Hrusheuski</i>	
Ordinary Differential Equations with Distributions as Coefficients in the Sense of the Theory of New Generalized Functions .....	167
<i>T.Sh. Kalmenov and D. Suragan</i>	
A Boundary Condition and Spectral Problems for the Newton Potential .....	187
<i>I.U. Khaydarov, M.S.Salakhitdinov and A.K. Urinov</i>	
An Extremum Principle for a Class of Hyperbolic Type Equations and for Operators Connected with Them .....	211
<i>S. Khodjiev</i>	
Numerical Investigations of Tangled Flows in a Channel of Constant and Variable Section at Presence of Recirculation Zone ....	233
<i>C. Lebiedzik and R. Triggiani</i>	
(Communicated by F. Bucci and I. Lasiecka) The Optimal Interior Regularity for the Critical Case of a Clamped Thermoelastic System with Point Control Revisited .....	243
<i>P. Loreti and D. Sforza</i>	
(Communicated by F. Bucci and I. Lasiecka) Multidimensional Controllability Problems with Memory .....	261
<i>F. Macià</i>	
(Communicated by V. Smyshlyaev) The Schrödinger Flow in a Compact Manifold: High-frequency Dynamics and Dispersion .....	275
<i>M. Reissig</i>	
Optimality of the Asymptotic Behavior of the Energy for Wave Models .....	291
<i>L. Simon</i>	
On Singular Systems of Parabolic Functional Equations .....	317
<i>O.S. Zikirov</i>	
Boundary-value Problems for a Class of Third-order Composite Type Equations .....	331
<i>J.P. Zolésio</i>	
(Communicated by F. Bucci and I. Lasiecka) Shape-morphic Metric, Geodesic Stability .....	343



<http://www.springer.com/978-3-0348-0068-6>

Modern Aspects of the Theory of Partial Differential  
Equations

Ruzhansky, M.; Wirth, J. (Eds.)

2011, VIII, 368 p., Hardcover

ISBN: 978-3-0348-0068-6

A product of Birkhäuser Basel