

# Contents

Preface .....	vii
 <i>V. Kokilashvili</i>	
Stefan G. Samko – Mathematician, Teacher and Man .....	1
 <i>S.V. Rogosin</i>	
The Role of S.G. Samko in the Establishing and Development of the Theory of Fractional Differential Equations and Related Integral Operators .....	49
 <i>F. Ali Mehmeti, R. Haller-Dintelmann and V. Régnier</i>	
Energy Flow Above the Threshold of Tunnel Effect .....	65
 <i>L.S. Arendarenko, R. Oinarov and L.-E. Persson</i>	
Some New Hardy-type Integral Inequalities on Cones of Monotone Functions .....	77
 <i>P. Berglez and T.T. Luong</i>	
On a Boundary Value Problem for a Class of Generalized Analytic Functions .....	91
 <i>A. Böttcher and I.M. Spitkovsky</i>	
The Factorization Problem: Some Known Results and Open Questions .....	101
 <i>J. Chen and E.M. Rocha</i>	
A Class of Sub-elliptic Equations on the Heisenberg Group and Related Interpolation Inequalities .....	123
 <i>M. Edelman and L.A. Taieb</i>	
New Types of Solutions of Non-linear Fractional Differential Equations .....	139
 <i>N.J. Ford and M.L. Morgado</i>	
Stability, Structural Stability and Numerical Methods for Fractional Boundary Value Problems .....	157

<i>V.S. Guliyev and P.S. Shukurov</i>	
On the Boundedness of the Fractional Maximal Operator, Riesz Potential and Their Commutators in Generalized Morrey Spaces .....	175
<i>L. Huang, K. Murillo and E.M. Rocha</i>	
Existence of Solutions of a Class of Nonlinear Singular Equations in Lorentz Spaces .....	201
<i>A.I. Kheyfits</i>	
Growth of Schrödingerian Subharmonic Functions Admitting Certain Lower Bounds .....	215
<i>V. Kokilashvili and V. Paatashvili</i>	
The Riemann and Dirichlet Problems with Data from the Grand Lebesgue Spaces .....	233
<i>D. Mozyrska and E. Girejko</i>	
Overview of Fractional $h$ -difference Operators .....	253
<i>P. Musolino</i>	
A Singularly Perturbed Dirichlet Problem for the Poisson Equation in a Periodically Perforated Domain. A Functional Analytic Approach .....	269
<i>T. Odziejewicz, A.B. Malinowska and D.F.M. Torres</i>	
Fractional Variational Calculus of Variable Order .....	291
<i>C. Ortiz-Caraballo, Carlos Pérez and E. Rela</i>	
Improving Bounds for Singular Operators via Sharp Reverse Hölder Inequality for $A_\infty$ .....	303
<i>V. Rabinovich</i>	
Potential Type Operators on Weighted Variable Exponent Lebesgue Spaces .....	323
<i>H. Rafeiro</i>	
A Note on Boundedness of Operators in Grand Grand Morrey Spaces .....	349
<i>M.M. Rodrigues, N. Vieira and S. Yakubovich</i>	
Operational Calculus for Bessel's Fractional Equation .....	357
<i>L.G. Softova</i>	
The Dirichlet Problem for Elliptic Equations with VMO Coefficients in Generalized Morrey Spaces .....	371
<i>S.M. Umarkhadzhiev</i>	
Riesz-Thorin-Stein-Weiss Interpolation Theorem in a Lebesgue-Morrey Setting .....	387