

Contents

On the scientific work of V.G. Maz'ya: a personalized account DORINA MITREA and MARIUS MITREA	vii
Capacity, Carleson measures, boundary convergence, and exceptional sets NICOLA ARCOZZI, RICHARD ROCHBERG, and ERIC SAWYER	1
On the absence of dynamical localization in higher dimensional random Schrödinger operators JEAN BOURGAIN	21
Circulation integrals and critical Sobolev spaces: problems of optimal constants HAÏM BREZIS and JEAN VON SCHAFTINGEN	33
Mutual absolute continuity of harmonic and surface measures for Hörmander type operators LUCA CAPOGNA, NICOLA GAROFALO, and DUY-MINH NHIEU	49
Soviet-Russian and Swedish mathematical contacts after the war. A personal account. LARS GÅRDING	101
Generalized Robin boundary conditions, Robin-to-Dirichlet maps, and Krein-type resolvent formulas for Schrödinger operators on bounded Lipschitz domains FRITZ GESZTESY and MARIUS MITREA	105
A local Tb Theorem for square functions STEVE HOFMANN	175
Partial differential equations, trigonometric series, and the concept of function around 1800: a brief story about Lagrange and Fourier JEAN-PIERRE KAHANE	187
Quantitative unique continuation, logarithmic convexity of Gaussian means and Hardy's uncertainty principle CARLOS E. KENIG	207
Boundary Harnack inequalities for operators of p -Laplace type in Reifenberg flat domains JOHN L. LEWIS, NIKLAS LUNDSTRÖM, and KAJ NYSTRÖM	229
Waves on a steady stream with vorticity MARKUS LILLI and JOHN F. TOLAND	267

On analytic capacity of portions of continuum and a question of T. Murai FEDOR NAZAROV and ALEXANDER VOLBERG	279
The Christoffel–Darboux kernel BARRY SIMON	295
A Saint-Venant principle for Lipschitz cylinders MICHAEL E. TAYLOR	337
Wavelets in function spaces HANS TRIEBEL	347
Weighted norm inequalities with positive and indefinite weights IGOR E. VERBITSKY	377
The mixed problem for harmonic functions in polyhedra of \mathbb{R}^3 MOISES VENOZIOU and GREGORY C. VERCHOTA	407