

Contents

Preface	ix
On singular parabolic p -Laplacian systems under nonsmooth external forces. Regularity up to the boundary H. BEIRÃO DA VEIGA	1
On the fundamental matrix solution for higher-order parabolic systems S. BOCCIA and N. V. KRYLOV	11
On variational ground of the m -Hessian operators N. V. FILIMONENKOVA and N. M. IVOCHKINA	35
The magneto-geostrophic equations: a survey S. FRIEDLANDER, W. RUSIN, and V. VICOL	53
Variations on Liouville's theorem in the setting of stationary flows of generalized Newtonian fluids in the plane M. FUCHS	79
On the normal-type parabolic system corresponding to the three-dimensional Helmholtz system A. V. FURSIKOV	99
A discrete Bernoulli free boundary problem M. DEL MAR GONZALEZ, M. GUALDANI, and H. SHAHGHOIAN	119
On Plateau's problem in Riemannian manifolds S. HILDEBRANDT and F. SAUVIGNY	141
The boundary Harnack principle for second order elliptic equations in John and uniform domains H. KIM and M. SAFONOV	153
Oblique derivative problem for non-divergence parabolic equations with time-discontinuous coefficients V. KOZLOV and A. NAZAROV	177
Singular solutions of Navier–Stokes equations V. V. PUKHNACHEV	193
The local regularity theory for the Navier–Stokes equations near the boundary G. A. SEREGIN and T. N. SHILKIN	219
L_p -theory of free boundary problems of magnetohydrodynamics in simply connected domains V. A. SOLONNIKOV	245