

## Contents

Preface	vii
Quasireverse Hölder inequalities in parabolic metric and their applications A. ARKHIPOVA	1
Weyl asymptotics of the spectrum of the Maxwell operator with non-smooth coefficients in Lipschitz domains M. SH. BIRMAN AND N. D. FILONOV	27
Semiclassical pseudodifferential operators with discontinuous symbols and their applications to the problems of statistical physics A. M. BUDYLIN AND V. S. BUSLAEV	45
What is complete integrability in quantum mechanics L. D. FADDEEV	83
Geometric evolution equations preserving convexity N. IVOCHKINA	91
On spectral properties of elliptic problems in domains with cylindrical ends B. A. PLAMENEVSKII	123
Weak solutions to the Cauchy problem for the Navier-Stokes equations satisfying the local energy inequality N. KIKUCHI AND G. SEREGIN	141
Schauder estimates for the evolutionary generalized Stokes problem V. A. SOLONNIKOV	165
Homogenization of a periodic parabolic Cauchy problem T. A. SUSLINA	201
Boundary estimates for solutions of elliptic and parabolic equations with discontinuous nonlinearities N. N. URALTSEVA	235