

Contents

| | |
|--|-----|
| Editor's Preface | ix |
| Estimates for the Number of Negative Eigenvalues of the Schrödinger Operator and Its Generalizations M. SH. BIRMAN and M. Z. SOLOMYAK | 1 |
| Discrete Spectrum in the Gaps of a Continuous One for Perturbations with Large Coupling Constant M. SH. BIRMAN | 57 |
| Discrete Spectrum in the Gaps for Perturbations of the Magnetic Schrödinger Operator M. SH. BIRMAN and G. D. RAĬKOV | 75 |
| Boundedness Conditions and Spectrum Estimates for the Operators $b(X)a(D)$ and Their Analogs M. SH. BIRMAN, G. E. KARADZHOV, and M. Z. SOLOMYAK | 85 |
| Reflection Operators and Their Applications to Asymptotic Investigations of Semiclassical Integral Equations A. M. BUDYLIN and V. S. BUSLAEV | 107 |
| Weyl Asymptotics for the Discrete Spectrum of the Perturbed Hill Operator A. V. SOBOLEV | 159 |
| On Solutions of the Schrödinger Equation with Radiation Conditions at Infinity D. R. YAFAEV | 179 |