



# CONTENTS

Preface	9
Gottfried Anger: Direct and inverse problems in potential theory	11
Viorel Barbu: Regularity results for some differential equations associated with maximal monotone operators in Hilbert spaces	45
Haim Brezis: Classes d'interpolation associées à un opérateur monotone et applications	61
Siegfried Dümmel: On inverse problems for k-dimensional potentials	73
Jozef Kačur: Application of Rothe's method to nonlinear parabolic boundary value problems	89
Josef Král: Potentials and removability of singularities	95
Vladimír Lovicar: Theorem of Fréchet and asymptotically almost periodic solutions of some nonlinear equations of hyperbolic type	107
Jaroslav Lukeš: A new type of generalized solution of the Dirichlet problem for the heat equation	117
Jiří Veselý: Some remarks on Dirichlet problem	125
Ivo Vrkoč: Diffusion processes and their connection to partial differential equations of parabolic type	133
Subject index	143