

Contents

Preface

Acknowledgements

List of Contributors

S Agmon

On the representation theorem for solutions of the Helmholtz equation on the hyperbolic space 1

A Ambrosetti and M L Bertotti

Homoclinics for second order conservative systems 21

H Brezis

Uniform estimates for solutions of $-\Delta u = V(x)u^p$ 38

L Caffarelli

The regularity of mappings with convex potentials 53

K Chang

On the homology method in the critical point theory 59

G Da Prato

Some results for semilinear equations perturbed by white noise 78

E De Giorgi

Conjectures on limits of some quasilinear parabolic equations and flow by mean curvature 85

G Fichera

Conditions for holomorphy of L^1_{loc} functions 96

D Kinderlehrer and P Pedregal

Remarks about the analysis of gradient Young measures 125

J J Kohn

Embeddings of CR manifolds 151

V A Kondratiev and O A Oleinik On asymptotic behaviour of solutions of some nonlinear elliptic equations in unbounded domains	163
J L Lions On some hyperbolic equations with a pressure term	196
E Magenes On a Stefan problem on the boundary of a domain	205
V A Solonnikov On boundary value problems for the Navier–Stokes equations with discontinuous boundary data	227
F Trèves Local homotopy formulas for the tangential Cauchy–Riemann equations	238
M I Vishik and V J Skvortzov Stabilized asymptotics of solutions to reaction-diffusion type system equations with small parameter	244