CONTENTS

Preface	9
Juha Berkovits, Vesa Mustonen, Matti Tienari	
Systems of wave equations: Matrix spectrum and nonresonance	9
R. C. Brown	
Some weighted Sobolev embeddings on domains with fractal	
boundaries	19
António M. Caetano	79
Approximation by functions of compact support on irregular	
domains	35
Joan Cerdà and Heribert Coll	3
Interpolation of Lorentz spaces, the diagonal case	41
Andrea Cianchi	
Second order variation reducing properties of rearrangements	48
Pavel Drábek	
Fredholm alternative for the p -Laplacian: Yes or No?	57
David E. Edmunds	
Sharp Sobolev embeddings and related Hardy inequalities	65
Petr Girg	
Some remarks on the solvability of the Neumann and periodic	
BVP's for certain quasilinear ODE	78
Petr Gurka	
On embeddings of logarithmic Bessel potential and Sobolev-	
type spaces	87
Dorothee D. Haroske	
Embeddings in spaces of Lipschitz type, entropy and approxi-	
mation numbers	99
Desmond J. Harris and Jan Lang	
Approximation numbers of Hardy-type operators on trees	113
S. Heikkilä	
On well-ordered sets in ordered function spaces	125
Gabriela Holuborá	
Suspension bridges: bifurcation of periodic solutions	133
Yavdat Il'yasov and Thomas Runst	
Existence and uniqueness theorems for equations of the type	
Au(x) = g(x, u, Du) with degenerate and nonlinear boundary	
conditions	143
R. Kannan and S. Seikkala	
Existence of solutions to a periodic boundary value problem	149

Juha Kinnunen and Olli Martio	
Maximal operator and superharmonicity	157
Hans-Gerd Leopold	
Embeddings for general weighted sequence spaces and entropy	
numbers	170
Bohumír Opic	
On boundedness of fractional maximal operators between clas-	
sical Lorentz spaces	187
Andrey Osipov	
On the analogue of the inverse spectral problem method for	
some classes of non symmetric difference operators and its	
applications	197
Luboš Pick	
Supremum operators and optimal Sobolev inequalities	207
Jiří Rákosník	
Sobolev inequality with variable exponent	220
Juhani Riihentaus	
Subharmonic functions: non-tangential and tangential bound-	
ary behavior	229
L. Simon	
On the stabilization of solutions of nonlinear parabolic func-	
tional differential equations	239
Hans Triebel	
The Laplace operator in fractal domains	251
Anna Wedestig	
Sharp weighted multidimensional integral inequalities for in-	
creasing functions	261
List of participants	268