

Preface

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PREFACE

This volume contains six invited lectures presented at the Spring School “Nonlinear Analysis, Function Spaces and Applications VII” held in July 7–12, 2002, in Prague and organized by the Mathematical Institute of the Academy of Sciences of the Czech Republic in collaboration with the Czech University of Agriculture at Prague. It was the seventh event in the series of Spring Schools organized under the same name in four years period since 1978 with the aim to bring together a broad audience including experienced mathematicians as well as students and to offer them extensive surveys of recent developments in the named fields delivered by distinguished specialists. Besides of the main programme, the participants were given the possibility for discussions and exchange of ideas in seminars with short communications.

As the rule, each paper was sent to a referee. We thank all colleagues who giving us their opinion contributed to the high quality of the texts.

The Organizing Committee consisted of P. Gurka (Czech University of Agriculture), M. Krbeč, A. Kufner (Honorary Chairman), B. Opic (Chairman), J. Rákosník (all the Mathematical Institute), J. Lang (Ohio State University), L. Pick (Charles University) and A. Nekvinda (Czech Technical University).

A short overview of the history of the Spring Schools can be seen from the following list of proceedings including the names of invited speakers:

Vol. 1, Horní Bradlo, 1978 (S. Fučík, A. Kufner, eds.). Teubner-Texte Math. 19, BSB B. G. Teubner Verlagsgesellschaft, Leipzig, 1979.

A. Avantaggiati, J. Camus, Yu. A. Dubinskii, D. E. Edmunds, J.-P. Gossez, K. Gröger, I. Hlaváček, H. Triebel.

Vol. 2, Písek, 1982 (O. John, A. Kufner, eds.). Teubner-Texte Math. 49, BSB B. G. Teubner Verlagsgesellschaft, Leipzig, 1982. ISSN 0138-502X.

J. Ball, C. Baiocchi, V. I. Burenkov, M. Giaquinta, K. Hadeler, P.-L. Lions, V. G. Maz'ya, I. V. Skrypnik, J. R. L. Webb.

Vol. 3, Litomyšl, 1986 (M. Krbeč, A. Kufner, J. Rákosník, eds.). Teubner-Texte Math. 93, BSB B. G. Teubner Verlagsgesellschaft, Leipzig, 1986. ISBN 3-322-00417-1, ISSN 0138-502X.

D. R. Adams, O. V. Besov, L. I. Hedberg, H. P. Heinig, R. Johnson, L. D. Kudryavtsev, H. Lange, A. McIntosh, J. Musielak, J. Peetre, B. Ruf.

Vol. 4, Roudnice nad Labem, 1990 (M. Krbec, A. Kufner, B. Opic, J. Rákosník, eds.). Teubner-Texte Math. 119, BSB B. G. Teubner Verlagsgesellschaft, Leipzig, 1990. ISBN 3-322-00825-8, ISSN 0138-502X.

J. García-Cuerva, H. P. Heinig, V. Kokilashvili, V. Mustonen, L. E. Persson, G. F. Roach, C. G. Simader, S. K. Vodop'yanov.

Vol. 5, Praha, 1994 (M. Krbec, A. Kufner, B. Opic, J. Rákosník, eds.). Prometheus Publishing House and Mathematical Institute, Czech Academy of Sciences, Praha, 1994. ISBN 80-85849-69-0.

F. Chiarenza, D. E. Edmunds, B. Kawohl, F. J. Martín-Reyes, E. T. Sawyer, V. D. Stepanov, G. Talenti, R. L. Wheeden.

Vol. 6, Praha, 1998 (M. Krbec, A. Kufner, eds.). Mathematical Institute, Czech Academy of Sciences, Praha, 1999. ISBN 80-85823-38-1.

V. I. Burenkov, A. Chianchi, F. Cobos, V. Maz'ya, L. Pick, H. Triebel, I. E. Verbitsky, W. P. Ziemer.

Beginning with the volume 4 the proceedings have also been displayed at the URL of the European Mathematical Society

<http://www.emis.de/proceedings>

A limited number of printed volumes is still available in the Library of the Mathematical Institute AS CR. Orders can be sent to the address library@math.cas.cz.

Prague, August 2003

Editors