

Functional Analysis and Functional Equations; Applications, Problems, and Remarks. Each chapter contains four or five contributions containing the latest results presented by the participants.

ARTICLE NO. AT983297

Topics in Interpolation Theory, H. Dym, B. Fritzsche, V. Katsnelson, and B. Kirstein, Eds., *Operator Theory Advances and Applications* **95**, Birkhäuser, Basel, 1997, xxii + 494 pp.

In August 1994 a workshop *Recent Developments in Schur Analysis* was held at the University of Leipzig, Germany, in Honor of Vladimir Petrovich Potapov who would have been 80 years old then. About one half of the material in this book is based on lectures presented at this workshop. In addition to this there is some historical material based on reminiscences of former colleagues, students and associates of Potapov, translations of a number of important papers clarifying Potapov's approach to problems of interpolation and extension, and two expository papers especially written for this volume. The technical papers can be grouped into six categories: multiplicative decompositions, fundamental matrix inequalities, canonical systems of differential equations, the abstract interpolation problem, spaces with an indefinite metric, and other directions.

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Multivariate Approximation and Splines, G. Nürnberger, J. W. Schmidt, G. Walz, Eds., *International Series of Numerical Mathematics* **125**, Birkhäuser, Basel, 1997, x + 324 pp.

An international conference on *Multivariate Approximation and Splines* was held in Mannheim, Germany, in September 1996. This book contains 24 refereed papers which were presented at this conference. It was the aim of the conference to give an overview of recent developments in multivariate approximation with special emphasis on spline methods. Some of the topics covered are: data fitting, approximation, interpolation, splines, radial basis functions, neural networks, computer aided design methods, subdivision algorithms, and wavelets.

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