

Preface

The present book displays recent advances in modern operator theory and contains a collection of original research papers written by participants of the 21st *International Workshop on Operator Theory and Applications* (IWOTA) at the Technische Universität Berlin, Germany, July 12 to 16, 2010.

IWOTA dates back to the first meeting in Santa Monica, USA in 1981, and continued as a satellite meeting of the *International Symposium on the Mathematical Theory of Networks and Systems*. Nowadays, the IWOTA meetings are among the largest conferences in operator theory worldwide. The 2010 meeting in Berlin attracted more than 350 participants from 50 countries.

The articles collected in this volume contain new results for

- boundary value problems, inverse problems, spectral problems for linear operators,
- spectral theory for operators in indefinite inner product spaces, invariant subspaces,
- problems from operator ideals and moment problems,
- evolution equations and semigroups,
- differential and integral operators, Schrödinger operators, maximal L^p -regularity,
- Jacobi and Toeplitz operators,
- problems from system theory and mathematical physics.

It is a pleasure to acknowledge substantial financial support for the 21st *International Workshop on Operator Theory and Applications* received from the Deutsche Forschungsgemeinschaft (Germany), the National Science Foundation (USA), the Institute of Mathematics of the Technische Universität Berlin (Germany) and Birkhäuser.

September 2011,

Berlin-Blacksburg-Graz-Ilmenau-Ulm
The Editors

Spectral Theory, Mathematical System Theory, Evolution
Equations, Differential and Difference Equations

21st International Workshop on Operator Theory and
Applications, Berlin, July 2010

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2012, X, 694 p., Hardcover

ISBN: 978-3-0348-0296-3

A product of Birkhäuser Basel