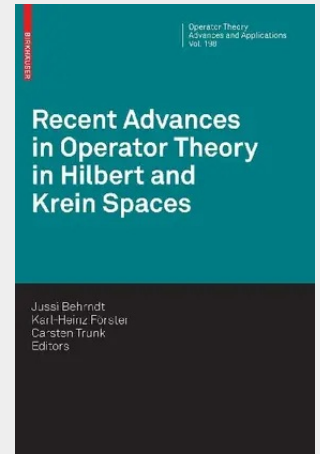


Recent Advances in Operator Theory in Hilbert and Krein Spaces

The present book is a memorial volume devoted to our friend, colleague and teacher Peter Jonas who passed away on July 18, 2007. It displays recent advances in modern operator theory in Hilbert and Krein spaces and contains a collection of original research papers written by participants of the 7th Workshop on Operator Theory in Krein Spaces and Spectral Analysis, which was held at the Technische Universität at Berlin, Germany, December 13 to 16, 2007. The articles in this volume contain new results for problems close to the area of research of Peter Jonas: Spectral and perturbation problems for operators in inner product spaces, generalized Nevanlinna functions and definitizable functions, scattering theory, extension theory for symmetric operators, fixed points, hyperbolic matrix polynomials, moment problems, indefinite spectral and Sturm-Liouville problems, and invariant subspace problems. It is a pleasure to acknowledge the substantial financial support for the 7th Workshop on Operator Theory in Krein Spaces and Spectral Analysis received from the – Berlin Mathematical School (BMS) – Gesellschaft für Angewandte Mathematik und Mechanik (GAMM) – International Mathematical Union, Commission on Development and Exchanges – Institute of Mathematics of the Technische Universität at Berlin. The Editors Peter Jonas (1941–2007) In Memoriam Peter Jonas (1941–2007) Jussi Behrndt, Karl-Heinz Förster and Carsten Trunk Peter Jonas was born on July 18, 1941, in Memel, now Klaipėda, which was at that time the most easterntown of East Prussia. After the war, Peter Jonas moved with his mother and grandmother to Blankenfelde – a small village near Berlin, where he lived until the end of his school education.

The present book is a memorial volume devoted to Peter Jonas. It displays recent advances in modern operator theory in Hilbert and Krein spaces and contains a collection of original research papers written by many well-known specialists in this field. The papers contain new results for problems close to the area of research of Peter Jonas: Spectral and perturbation problems for operators in inner product spaces, generalized Nevanlinna functions and definitizable functions, scattering theory, extension theory for symmetric operators, fixed points, hyperbolic matrix polynomials, moment problems, indefinite spectral and Sturm-Liouville problems, and invariant subspace problems.

This book is written for researchers and postgraduates interested in functional analysis and differential operators.



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