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OT 81 – Operator Theory: Advances and Applications

H. Upmeyer, University of Marburg, Germany

Toeplitz Operators and Index Theory in Several Complex Variables

1996. 490 pages. Hardcover
DM 198.–/öS 1445.40/sFr. 168.–
ISBN 3-7643-5282-5

This book gives a comprehensive treatment of Toeplitz operators arising in multivariable complex analysis. The first part describes in detail the underlying geometric structures (strongly pseudoconvex domains, Reinhardt domains, multivariable upper half-planes, symmetric domains and generalizations) as well as the harmonic analysis of the associated Hilbert spaces of holomorphic functions (of Hardy or Bergman type). It is also of interest to mathematicians not primarily interested in operator theory.

The second part of the book determines the structure of Toeplitz operators, their C^* -algebras and index theory, using modern techniques such as groupoid C^* -algebras, co-crossed products and operator K -theory.

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