



Toeplitz Operators and Spectral Function Theory Essays from the Leningrad Seminar on Operator Theory Operator Theory Advances and Applications

By N. Nikolsky

Birkh user. Paperback. Condition: New. 421 pages. Dimensions: 9.6in. x 6.7in. x 0.9in. The volume contains selected papers of the Spectral Function Theory seminar, Leningrad Branch of Steklov Mathematical Institute. The papers are mostly devoted to the theory of Toeplitz and model operators. These subjects are considered here from various points of view. Several papers concern the relationships of Toeplitz operators to weighted polynomial approximation. Namely, two papers by B. Solomyak and A. Volberg intensively treat the problem of spectral multiplicity for analytic Toeplitz operators (which are, in fact, multiplication operators) and my paper can serve as an introduction to the problem. This theme of multiplicities is continued in a paper by V. Vasyunin where the multiplicity of the spectrum is computed for Hilbert space contractions with finite defect indices. V. Pellers paper deals with a perturbation theory problem for Toeplitz operators. In a paper by D. Yakubovich a new similarity model for a class of Toeplitz operators is constructed. S. Treil presents a survey of a part of spectral function theory for vector valued function (Szeg -Kolmogorov extreme problems for operator weights, bases of vector rational functions, estimations of Hilbert transform with respect to operator weights, the operator corona problem). As a...



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