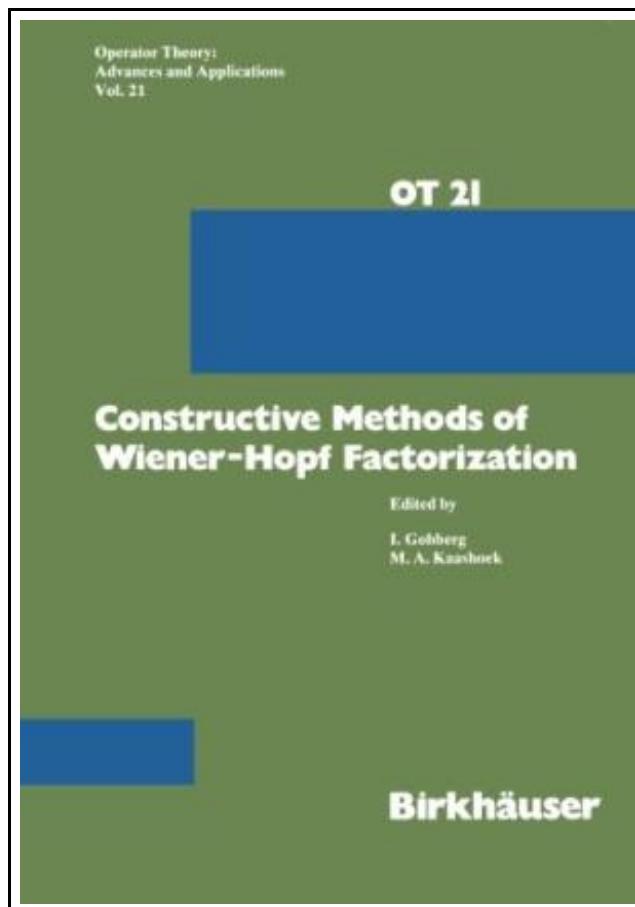


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Book Condition: New. Publisher/Verlag: Springer, Basel | The main part of this paper concerns Toeplitz operators of which the symbol W is an $m \times m$ matrix function defined on a disconnected curve r . The curve r is assumed to be the union of $s + 1$ nonintersecting simple smooth closed contours r_0, r_1, \dots, r_s which form the positively l oriented boundary of a finitely connected bounded domain in \mathbb{C} . Our main requirement on the symbol W is that on each contour r_j the function W is the restriction of a rational matrix function W_j which does not have poles and zeros on r_j and at infinity. Using the realization theorem from system theory (see, e. g. - [1], Chapter 2) the rational matrix function W_j (which differs from contour to contour) may be written in the form 1 (0, 1) $W_j(A) = I + C_j(A - A_j f B_j A_j E_j r_j J_j J_j J_j J_j)$ where A_j is a square matrix of size $n_j \times n_j$ - say. B_j and C_j are $m \times n_j$ matrices of sizes $n_j \times m$ and $m \times n_j$ - respectively. and the matrices $A_j J_j \times J_j J_j$ and $A_j = A_j - B_j C_j$ have no eigenvalues on r_j . (In (0, 1) the functions $J_j W_j$ are normalized to I at infinity. | I : Canonical and Minimal Factorization.- Editorial introduction.- Left Versus Right Canonical Factorization.- 1. Introduction.- 2. Left and right canonical Wiener-Hopf factorization.- 3. Application to singular integral operators.- 4. Spectral and antispectral factorization on the unit circle.- 5. Symmetrized left and right canonical spectral factorization on the imaginary axis.- References.- Wiener-Hopf Equations With Symbols Analytic In A Strip.- 0. Introduction.- I. Realization.- 1. Preliminaries.- 2. Realization triples.- 3....

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