



Constructive Methods of Wiener-Hopf Factorization

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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 oriented boundary of a finitely connected bounded domain in t . 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 $W_j(\lambda) = I + C_j(A_j - \lambda I)^{-1} B_j$, where A_j is a square matrix of size $n_j \times n_j$, B_j and C_j are $n_j \times m$ and $m \times n_j$ matrices, respectively, and the...



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