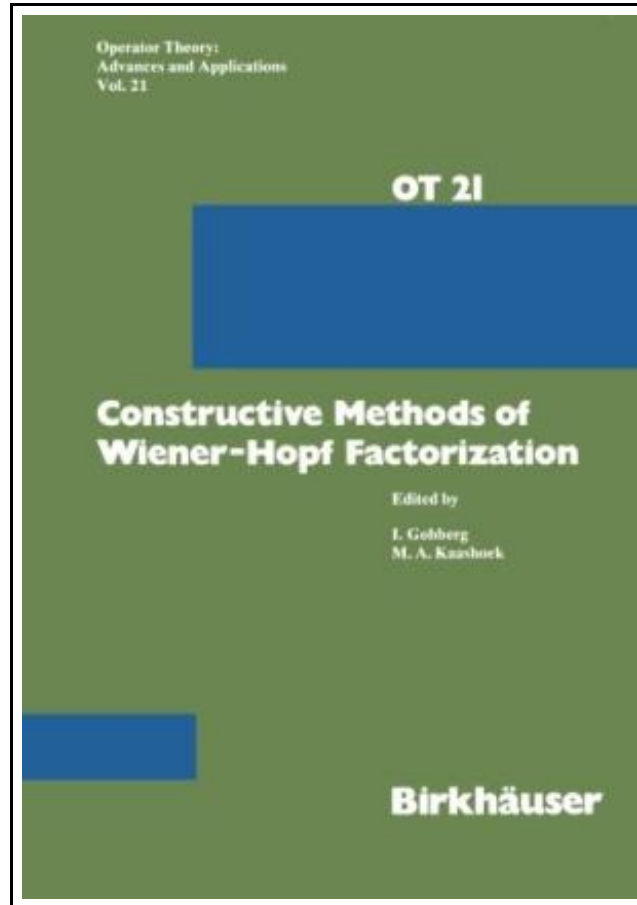


## Constructive Methods of Wiener-Hopf Factorization



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*This book is definitely not effortless to start on reading through but extremely fun to learn. Better then never, though i am quite late in start reading this one. It is extremely difficult to leave it before concluding, once you begin to read the book.*

*(Aliya Franecki)*

## CONSTRUCTIVE METHODS OF WIENER-HOPF FACTORIZATION



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

$$W_j(z) = I + C_j (A_j - z B_j)^{-1} E_j$$

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 of sizes  $n_j \times m$  and  $m \times n_j$ , respectively, and the matrices  $A_j$  and  $A_j - B_j C_j$  have no eigenvalues on  $r_j$ . (In (0.1) the functions  $W_j$  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.- 1. Realization.- 1. Preliminaries.- 2. Realization triples.- 3....



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