



Separation of Variables and Wiener-Hopf Techniques (Classic Reprint)

By Samuel N. Karp

Forgotten Books. Paperback. Condition: New. This item is printed on demand. 92 pages. Dimensions: 9.0in. x 6.0in. x 0.2in. Excerpt from Separation of Variables and Wiener-Hopf Techniques The role played by the function-theoretic Wiener-Hopf techniques in the solution of certain integral equations arising from the application of Greens theorem to boundary value problems is well known and has recently been extended. In the present work we discuss and illustrate the relevance and applicability of these techniques when the method of separation of variables in curvilinear coordinates is employed. For the same boundary various appropriate or semi-appropriate coordinate systems may be employed, while on the other hand the Greens function integral equation is invariant. There is seen to be a correspondence between the two methods, which are expressions of the duality between Greens function and eigenfunction techniques. Various aspects of this correspondence, as well as the effect of change of coordinate systems are illustrated. The resulting relationships shed some light on the problem of recognizing the relevancy of Wiener-Hopf or more classical techniques to certain integral equations and serves as a guide in the discovery of new problems to which the method (in either guise mentioned above) may be applied. Certain observations with...



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