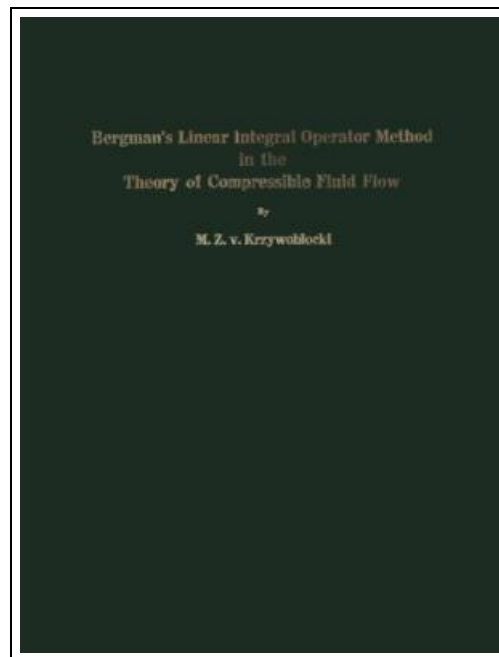


Bergman's Linear Integral Operator Method in the Theory of Compressible Fluid Flow



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Reviews

Complete guide! Its this sort of good read. It is rally exciting throgh studying period. I am just pleased to explain how here is the very best publication i have go through inside my own existence and could be he very best publication for at any time.

(Adele Rosenbaum)

BERGMAN'S LINEAR INTEGRAL OPERATOR METHOD IN THE THEORY OF COMPRESSIBLE FLUID FLOW



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Springer-Verlag KG Dez 2013, 2013. Taschenbuch. Condition: Neu. Neuware - The reader who is somewhat acquainted with the field of compressible fluid flow hears much about Stefan Bergman's method of integral operators. It took many years for him to develop this method which is based primarily on the theory of analytic functions and particularly on the theory of functions of two complex variables. The method, as a whole, is scattered throughout many papers in mathematical journals, and as a matter of fact, in its present state, is accessible only to those who are fully acquainted with mathematical literature. In one of their papers, Professors R. von Mises and M. Schiffer greatly simplified the method in the subsonic case. The purpose of the present work is to represent the method in all its variations in such a way that a theoretical engineer or an applied aerodynamicist can use it in practical applications. A professional mathematician will find the discussion too elementary for him. The parts of Bergman's presentation which are most interesting mathematically-the proofs-are mostly omitted in the present work. The emphasis was put upon the simplified representation of the final results and formulas, rather than upon the derivation of those formulas. In the preliminary remarks the author discusses various types of singularities in a very elementary way. The first two parts of the work deal with the subsonic case. In these sections the author followed mostly the paper of von Mises and Schiffer. 188 pp. Deutsch.



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