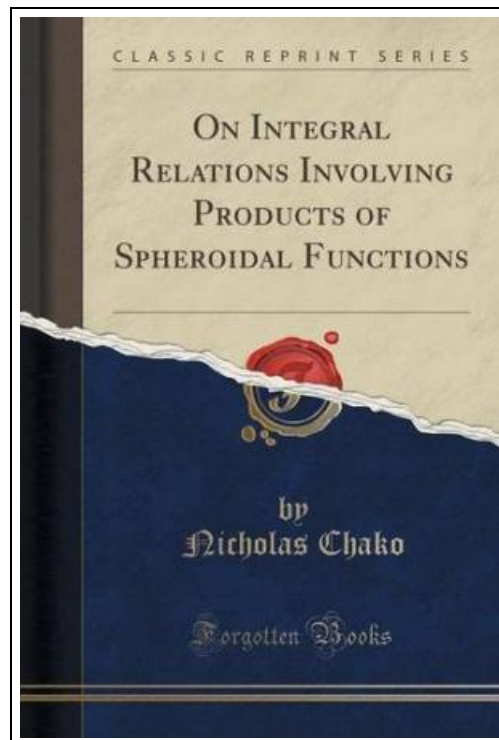


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ON INTEGRAL RELATIONS INVOLVING PRODUCTS OF SPHEROIDAL FUNCTIONS (CLASSIC REPRINT) (PAPERBACK)



Forgotten Books, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from On Integral Relations Involving Products of Spheroidal Functions In this paper we obtain a number of integral relations involving products of spheroidal functions based on a general integral relation due to inceei]. We choose the kernel in the integral to be of the form e^{-lu} cents Lu , where u is a solution of the time-harmonic wave equation in spheroidal coordinates and L is an operator commuting with the Laplacian. Operators possessing this property are certain linear combinations of the linear and the angular momentum operators and powers and products of the combinations. Spheroidal functions have played an increasingly important role in problems of applied mathematics and quantum mechanics[e]. For example, the use of these functions has made it possible to find exact solutions of the problems of diffraction of acoustic and of electromagnetic waves by Circular discs and apertures[3]. Although a systematic treatment of the theory and applications of spheroidal functions has recently been published by Meixner and Schafke[u], the theory of Spheroidal functions in general has not been as extensively developed as the theory of other special functions of mathe metical physics (legendre, Bessel, Laguerre, Hermite functions, For the latter functions, whose differential equations are of the hypergeometric type, there exist well-known recurrence relations connecting three contiguous functions. These formulas provide a method of constructing numerical tables, and furnish valuable insight into the nature of the functions themselves. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In...



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