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by YUDELL L. LUKE

This volume may be conceived as an updated supplement to that portion of AMS 55 (Handbook of Mathematical Functions with Formulas, Graphs and Mathematical Tables, edited by Milton Abramowitz and Irene Stegun, National Bureau of Standards Applied Mathematics Series 55, U.S. Government Printing Office, Washington, D.C.) dealing with the special functions. Features of the book: provides machinery for the expansion of the generalized hypergeometric function ( ${ }_{p} F_{q}$ ) and other important functions in infinite series of Jacobi and Chebyshev polynomials of the first kind; tabulates numerical coefficients for Chebyshev expansions of the more common functions; sets forth polynomials and rational approximations for the $p F_{q}$ and a certain class of Gfunctions that generalizes the ${ }_{p} F_{q}$; coefficients in the polynomials for Padé and other rational approximations for many common functions are provided; presents two-sided inequalities for numerous functions.
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