

## thematical Functions I their Approximations

DELL L. LUKE

; volume may be conceived as an updated ment to that portion of AMS 55 (Handof Mathematical Functions with Formulas, $s$ and Mathematical Tables, edited by Abramowitz and Irene Stegun, National u of Standards Applied Mathematics Series S. Government Printing Office, Washington, dealing with the special functions. Features book: provides machinery for the expanof the generalized hypergeometric function and other important functions in infinite of Jacobi and Chebyshev polynomials of st kind; tabulates numerical coefficients for shev expansions of the more common funcsets forth polynomials and rational approxins for the ${ }_{p} F_{q}$ and a certain class of Gons that generalizes the ${ }_{p} F_{q}$; coefficients in olynomials for Padé and other rational apnations for many common functions are led; presents two-sided inequalities for nuis functions.
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