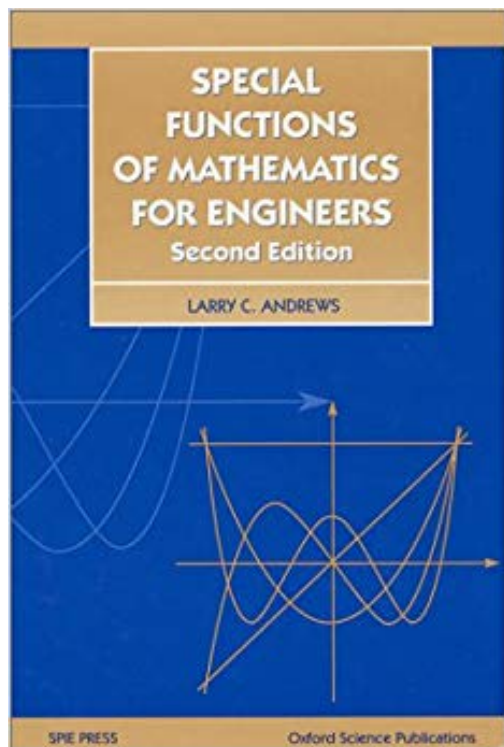


Special Functions of Mathematics for Engineers, Second Edition (SPIE Press Monograph Vol. PM49) by Larry C. Andrews



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Modern engineering and physical science applications demand a thorough knowledge of applied mathematics, particularly special functions. These typically arise in applications such as communication systems, electro-optics, nonlinear wave propagation, electromagnetic theory, electric circuit theory, and quantum mechanics. This text systematically introduces special functions and explores their properties and applications in engineering and science.

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- Preface to the Second Edition - Preface to the First Edition - Notation for Special Functions - Infinite Series, Improper Integrals, and Infinite Products - The Gamma Function and Related Functions - Other Functions Defined by Integrals - Legendre Polynomials and Related Functions - Other Orthogonal Polynomials - Bessel Functions - Bessel Functions of Other Kinds - Applications Involving Bessel Functions - The Hypergeometric Function - The Confluent Hypergeometric Functions - Generalized Hypergeometric Functions - Applications Involving Hypergeometric-Type Functions - Bibliography - Appendix: A List of Special Function Formulas - Selected Answers to Exercises - Index



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