



Applied Complex Variables

By Mathematics

Dover Publications. Paperback. Book Condition: New. Paperback. 512 pages. Dimensions: 8.2in. x 5.4in. x 1.0in. Analytic function theory is a traditional subject going back to Cauchy and Riemann in the 19th century. Once the exclusive province of advanced mathematics students, its applications have proven vital to today's physicists and engineers. In this highly regarded work, Professor John W. Dettman offers a clear, well-organized overview of the subject and various applications making the often-perplexing study of analytic functions of complex variables more accessible to a wider audience. The first half of *Applied Complex Variables*, designed for sequential study, is a step-by-step treatment of fundamentals, presenting superior coverage of concepts of complex analysis, including the complex number plane; functions and limits; the Cauchy-Riemann conditions for differentiability; Riemann surfaces; the definite integral; power series; meromorphic functions; and much more. The second half provides lucid exposition of five important applications of analytic function theory, each approachable independently of the others: potential theory; ordinary differential equations; Fourier transforms; Laplace transforms; and asymptotic expansions. Helpful exercises are included at the end of each topic in every chapter. The two-part structure of *Applied Complex Variables* affords the college instructor maximum classroom flexibility. Once fundamentals are mastered, applications can...



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