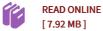# Applied Complex Variable (Paperback)

By John W. Dettman

Dover Publications Inc., United States, 2010. Paperback. Condition: New. Language: English . Brand New Book. 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...

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