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This outstanding text for undergraduate students of science and engineering requires only a standard course in elementary calculus. Designed to provide a thorough understanding of fundamental concepts and create the basis for higher-level courses, the treatment features numerous examples and extensive exercise sections of varying difficulty, plus answers to selected exercises.The two-part approach begins with the development of the primary concept of analytic function, advancing to the Cauchy integral theory, the series development of analytic functions through evaluation of integrals by residues, and some elementary applications of harmonic functions. The second part introduces some of the deeper aspects of complex function theory: mapping properties of analytic functions, applications to various vector field problems with boundary conditions, and a collection of further theoretical results