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Sinopsis

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New edition extensively revised and updated

New topics include Bers's theorem on isomorphisms between rings of holomorphic functions on plane domains, necessary and sufficient conditions for the existence of a bounded analytic function on the disc, subharmonic functions, Perron's principle, the ring of holomorphic functions on a plane domain, solutions to the Dirichlet problem, Green's function and its relation to the Riemann Mapping Theorem

Covers vast majority of the material needed for a beginning graduate level course on complex analysis

Material may be of interest to mathematicians, computer scientists, physicists, and engineers

This book is intended for a graduate course in complex analysis, where the main focus is the theory of complex-valued functions of a single complex variable. This theory is a prerequisite for the study of many areas of mathematics, including the theory of several finitely and infinitely many complex variables, hyperbolic geometry, two- and three-manifolds, and number theory. Complex analysis has connections and applications to many other subjects in mathematics and to other sciences. Thus this material will also be of interest to computer scientists, physicists, and engineers.

The book covers most, if not all, of the material contained in Lipman Bers's courses on first year complex analysis. In addition, topics of current interest, such as zeros of holomorphic functions and the connection between hyperbolic geometry and complex analysis, are explored.

In addition to many new exercises, this second edition introduces a variety of new and interesting topics. New features include a section on Bers's theorem on isomorphisms between rings of holomorphic functions on plane domains; necessary and sufficient conditions for the existence of a bounded analytic function on the disc with prescribed zeros; sections on subharmonic functions and Perron's principle; and a section on the ring of holomorphic functions on a plane domain. There are three new appendices: the first is a contribution by Ranjan Roy on the history of complex analysis, the second contains background material on exterior differential calculus, and

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the third appendix includes an alternate approach to the Cauchy theory.

Content Level » Graduate

Keywords » Cauchy theory - Dirichlet problem - Green's function - Riemann Mapping Theorem - analytic functions - complex analysis - complex power series - conformal equivalence - harmonic functions - holomorphic functions - hyperbolic geometry

Related subjects » Analysis