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Sinopsis

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This textbook introduces the theory of complex variables at undergraduate level. A good collection of problems is provided in the second part of the book. The book is written in a user-friendly style that presents important fundamentals a beginner needs to master the technical details of the subject. The organization of problems into focused sets is an important feature of the book and the teachers may adopt this book for a course on complex variables and for mining problems.

Contents:

Complex Numbers

Elementary Functions and Differentiation

Functions with Branch Point Singularity

Integration in the Complex Plane

Cauchy's Integral Formula

Residue Theorem

Contour Integration

Asymptotic Expansion

Conformal Mappings

Physical Applications of Conformal Mappings