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Título: Complex Variables. Principles And Problem Sessions

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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