



Complex Analysis with Applications in Science and Engineering

By Harold Cohen

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The Second Edition of this acclaimed text helps you apply theory to real-world applications in mathematics, physics, and engineering. It easily guides you through complex analysis with its excellent coverage of topics such as series, residues, and the evaluation of integrals; multi-valued functions; conformal mapping; dispersion relations; and analytic continuation. Worked examples plus a large number of assigned problems help you understand how to apply complex concepts and build your own skills by putting them into practice. This edition features many new problems, revised sections, and an entirely new chapter on analytic continuation.

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Editorial Review

Review

From the reviews of the second edition:

“The book is aimed to two purposes: to present material for a first course in complex analysis ... and to provide subjects for a second course The book is recommended for teaching and for self-study.”
(Heinrich Begehr, Zentralblatt MATH, Vol. 1195, 2010)

From the Back Cover

Complex Analysis with Applications in Science and Engineering weaves together theory and extensive applications in mathematics, physics and engineering. In this edition there are many new problems, revised sections, and an entirely new chapter on analytic continuation. This work will serve as a textbook for undergraduate and graduate students in the areas noted above.

Key Features of this Second Edition:

Excellent coverage of topics such as series, residues and the evaluation of integrals, multivalued functions, conformal mapping, dispersion relations and analytic continuation

Systematic and clear presentation with many diagrams to clarify discussion of the material

Numerous worked examples and a large number of assigned problems

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"The textbook *Fundamentals and Applications of Complex Analysis* by Harold Cohen is an idiosyncratic treatment of the subject, written by a physicist, with lots of interesting insights and alternative ways of viewing the ideas and methods of complex analysis. The book includes several excursions into applications of interest to physicists and electrical engineers, as circuit analysis and a chapter on dispersion relations. The book would be of particular interest to physics and electrical engineering students. Mathematicians might find it a good hunting ground for offbeat approaches to familiar themes and for various other serendipities."

?Theodore W. Gamelin, professor of mathematics, UCLA

"This book might be useful for readers who are still familiar with complex analysis and who are searching for several examples, exercises or applications in physics and engineering..."

? Zentralblatt Math

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