Complex Variables with Applications

By Saminathan Ponnusamy, Herb Silverman

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Explores the interrelations between real and complex numbers by adopting both generalization and specialization methods to move between them, while simultaneously examining their analytic and geometric characteristics

Engaging exposition with discussions, remarks, questions, and exercises to motivate understanding and critical thinking skills

Encludes numerous examples and applications relevant to science and engineering students

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Editorial Review

Review

"A good point of the book is the selections of questions and exercises at the end of each section. They are very carefully selected and will help students with reading comprehension and with application of the material of the current section. Most of the time the exercises progress nicely from simple applications of concepts to problems that will expand the student's horizons." –MAA Reviews

"By using this book the reader can get a good background on complex analysis and become ready for further study of deeper chapters of Complex Analysis and its Applications."–Zentralblatt Math

From the Back Cover

Complex numbers can be viewed in several ways: as an element in a field, as a point in the plane, and as a two-dimensional vector. Examined properly, each perspective provides crucial insight into the interrelations between the complex number system and its parent, the real number system. The authors explore these relationships by adopting both generalization and specialization methods to move from real variables to complex variables, and vice versa, while simultaneously examining their analytic and geometric characteristics, using geometry to illustrate analytic concepts and employing analysis to unravel geometric notions.

The engaging exposition is replete with discussions, remarks, questions, and exercises, motivating not only understanding on the part of the reader, but also developing the tools needed to think critically about mathematical problems. This focus involves a careful examination of the methods and assumptions underlying various alternative routes that lead to the same destination.

The material includes numerous examples and applications relevant to engineering students, along with some techniques to evaluate various types of integrals. The book may serve as a text for an undergraduate course in complex variables designed for scientists and engineers or for mathematics majors interested in further pursuing the general theory of complex analysis. The only prerequisite is a basic knowledge of advanced calculus. The presentation is also ideally suited for self-study.

About the Author

Users Review

From reader reviews:

Larry Brackett:

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