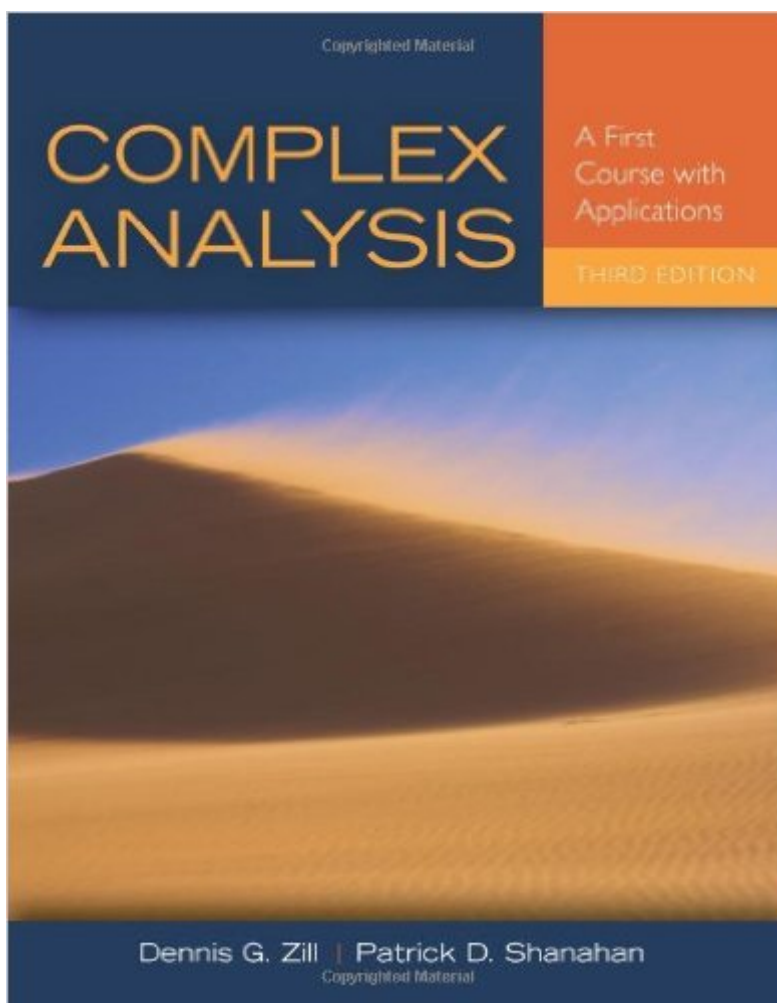


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# Complex Analysis: A First Course With Applications



## Synopsis

Complex Analysis: A First Course with Applications is a truly accessible introduction to the fundamental principles and applications of complex analysis. Designed for the undergraduate student with a calculus background but no prior experience with complex analysis, this text discusses the theory of the most relevant mathematical topics in a student-friendly manner. With a clear and straightforward writing style, concepts are introduced through numerous examples, illustrations, and applications. Each section of the text contains an extensive exercise set containing a range of computational, conceptual, and geometric problems. In the text and exercises, students are guided and supported through numerous proofs providing them with a higher level of mathematical insight and maturity. Each chapter contains a separate section devoted exclusively to the applications of complex analysis to science and engineering, providing students with the opportunity to develop a practical and clear understanding of complex analysis.

**New and Key Features:** Clarity of exposition supported by numerous examples  
Extensive exercise sets with a mix of computational and conceptual problems  
Applications to science and engineering throughout the text  
New and revised problems and exercise sets throughout  
Portions of the text and examples have been revised or rewritten to clarify or expand upon the topics at hand  
The Mathematica syntax from the second edition has been updated to coincide with version 8 of the software.

## Book Information

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## Customer Reviews

This is THE book for self study. At close to 400 pages it's bigger than your typical book because

more time is spent explaining the material. The "Remarks" sections help draw your attention to important information for the section. There are typically 30-50 problems in each section, some on skills and some on concepts. The odd answers to, say, problem 25 are in the back. If you need more than that there's supposed to be a student solutions manual for the book.

Very good book. It teaches me all aspects of complex numbers I need to learn for my study of differential equations, I like the large amount of problems and the solutions. I would find it better if there were all solution in the book not just 50%. The author also took care to show the applications sometimes for example in chapter 5 the visualization of what the line integrals mean is a bit weak. I can recommend this book for someone who wants to have a good overview over complex numbers their applications and properties.

This is the best text book for self-study but the price is an unbounded cheek. The text is very clearly represented (side notes, many pictures) and it is a joy the read the book (usually I hate math books). Another good book is from A. I. Markushevich but not for beginners. Read this and after this book read Markushevich.

Great for self teaching!~~The book serves its purpose greatly as the first book on the subject. No complaint at all. One of the best on the market.

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