



Introductory Complex Analysis (Dover Books on Mathematics)

Richard A. Silverman

Download now

[Click here](#) if your download doesn't start automatically

Introductory Complex Analysis (Dover Books on Mathematics)

Richard A. Silverman

Introductory Complex Analysis (Dover Books on Mathematics) Richard A. Silverman

Introductory Complex Analysis is a scaled-down version of A. I. Markushevich's masterly three-volume "Theory of Functions of a Complex Variable." Dr. Richard Silverman, the editor and translator of the original, has prepared this shorter version expressly to meet the needs of a one-year graduate or undergraduate course in complex analysis. In his selection and adaptation of the more elementary topics from the original larger work, he was guided by a brief course prepared by Markushevich himself. The book begins with fundamentals, with a definition of complex numbers, their geometric representation, their algebra, powers and roots of complex numbers, set theory as applied to complex analysis, and complex functions and sequences. The notions of proper and improper complex numbers and of infinity are fully and clearly explained, as is stereographic projection. Individual chapters then cover limits and continuity, differentiation of analytic functions, polynomials and rational functions, Mobius transformations with their circle-preserving property, exponentials and logarithms, complex integrals and the Cauchy theorem, complex series and uniform convergence, power series, Laurent series and singular points, the residue theorem and its implications, harmonic functions (a subject too often slighted in first courses in complex analysis), partial fraction expansions, conformal mapping, and analytic continuation. Elementary functions are given a more detailed treatment than is usual for a book at this level. Also, there is an extended discussion of the Schwarz-Christoffel transformation, which is particularly important for applications. There is a great abundance of worked-out examples, and over three hundred problems (some with hints and answers), making this an excellent textbook for classroom use as well as for independent study. A noteworthy feature is the fact that the parentage of this volume makes it possible for the student to pursue various advanced topics in more detail in the three-volume original, without the problem of having to adjust to a new terminology and notation. In this way, *Introductory Complex Analysis* serves as an introduction not only to the whole field of complex analysis, but also to the magnum opus of an important contemporary Russian mathematician.

 [Download Introductory Complex Analysis \(Dover Books on Math ...pdf](#)

 [Read Online Introductory Complex Analysis \(Dover Books on Ma ...pdf](#)

Download and Read Free Online Introductory Complex Analysis (Dover Books on Mathematics)

Richard A. Silverman

From reader reviews:

Jason Carr:

Have you spare time for just a day? What do you do when you have considerably more or little spare time? Sure, you can choose the suitable activity with regard to spend your time. Any person spent their own spare time to take a walk, shopping, or went to the actual Mall. How about open or even read a book called Introductory Complex Analysis (Dover Books on Mathematics)? Maybe it is to be best activity for you. You realize beside you can spend your time along with your favorite's book, you can smarter than before. Do you agree with its opinion or you have other opinion?

Bobby Miller:

In this 21st centuries, people become competitive in each way. By being competitive today, people have do something to make them survives, being in the middle of the crowded place and notice by means of surrounding. One thing that occasionally many people have underestimated this for a while is reading. Yeah, by reading a e-book your ability to survive increase then having chance to endure than other is high. For you who want to start reading a new book, we give you that Introductory Complex Analysis (Dover Books on Mathematics) book as basic and daily reading book. Why, because this book is greater than just a book.

Stephanie Sellers:

As people who live in typically the modest era should be change about what going on or details even knowledge to make these keep up with the era and that is always change and make progress. Some of you maybe will update themselves by looking at books. It is a good choice for you but the problems coming to you is you don't know what kind you should start with. This Introductory Complex Analysis (Dover Books on Mathematics) is our recommendation to help you keep up with the world. Why, because book serves what you want and want in this era.

Virgie Haynes:

Precisely why? Because this Introductory Complex Analysis (Dover Books on Mathematics) is an unordinary book that the inside of the guide waiting for you to snap that but latter it will surprise you with the secret that inside. Reading this book next to it was fantastic author who write the book in such remarkable way makes the content interior easier to understand, entertaining means but still convey the meaning thoroughly. So , it is good for you because of not hesitating having this nowadays or you going to regret it. This excellent book will give you a lot of advantages than the other book possess such as help improving your expertise and your critical thinking means. So , still want to hold off having that book? If I have been you I will go to the guide store hurriedly.

Download and Read Online Introductory Complex Analysis (Dover Books on Mathematics) Richard A. Silverman #UODZBXJ5GHS

Read Introductory Complex Analysis (Dover Books on Mathematics) by Richard A. Silverman for online ebook

Introductory Complex Analysis (Dover Books on Mathematics) by Richard A. Silverman Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Introductory Complex Analysis (Dover Books on Mathematics) by Richard A. Silverman books to read online.

Online Introductory Complex Analysis (Dover Books on Mathematics) by Richard A. Silverman ebook PDF download

Introductory Complex Analysis (Dover Books on Mathematics) by Richard A. Silverman Doc

Introductory Complex Analysis (Dover Books on Mathematics) by Richard A. Silverman Mobipocket

Introductory Complex Analysis (Dover Books on Mathematics) by Richard A. Silverman EPub