



An Introduction to Complex Analysis

By O. Carruth McGehee

Download now

Read Online ➔

An Introduction to Complex Analysis By O. Carruth McGehee

Recent decades have seen profound changes in the way we understand complex analysis. This new work presents a much-needed modern treatment of the subject, incorporating the latest developments and providing a rigorous yet accessible introduction to the concepts and proofs of this fundamental branch of mathematics. With its thorough review of the prerequisites and well-balanced mix of theory and practice, this book will appeal both to readers interested in pursuing advanced topics as well as those wishing to explore the many applications of complex analysis to engineering and the physical sciences.

- * Reviews the necessary calculus, bringing readers quickly up to speed on the material
- * Illustrates the theory, techniques, and reasoning through the use of short proofs and many examples
- * Demystifies complex versus real differentiability for functions from the plane to the plane
- * Develops Cauchy's Theorem, presenting the powerful and easy-to-use winding-number version
- * Contains over 100 sophisticated graphics to provide helpful examples and reinforce important concepts

 [Download An Introduction to Complex Analysis ...pdf](#)

 [Read Online An Introduction to Complex Analysis ...pdf](#)

An Introduction to Complex Analysis

By O. Carruth McGehee

An Introduction to Complex Analysis By O. Carruth McGehee

Recent decades have seen profound changes in the way we understand complex analysis. This new work presents a much-needed modern treatment of the subject, incorporating the latest developments and providing a rigorous yet accessible introduction to the concepts and proofs of this fundamental branch of mathematics. With its thorough review of the prerequisites and well-balanced mix of theory and practice, this book will appeal both to readers interested in pursuing advanced topics as well as those wishing to explore the many applications of complex analysis to engineering and the physical sciences.

- * Reviews the necessary calculus, bringing readers quickly up to speed on the material
- * Illustrates the theory, techniques, and reasoning through the use of short proofs and many examples
- * Demystifies complex versus real differentiability for functions from the plane to the plane
- * Develops Cauchy's Theorem, presenting the powerful and easy-to-use winding-number version
- * Contains over 100 sophisticated graphics to provide helpful examples and reinforce important concepts

An Introduction to Complex Analysis By O. Carruth McGehee Bibliography

- Sales Rank: #3896084 in Books
- Published on: 2000-09-15
- Original language: English
- Number of items: 1
- Dimensions: 9.53" h x 1.02" w x 6.28" l, 1.60 pounds
- Binding: Hardcover
- 456 pages

 [Download An Introduction to Complex Analysis ...pdf](#)

 [Read Online An Introduction to Complex Analysis ...pdf](#)

Editorial Review

Review

"...well written ,very readable...stylish, up-to-date text..." (*The Mathematical Gazette*, July 2002)

McGehee discusses the basics of complex variables and a few applications to physics in a rigorous and understandable manner. He begins with motivation and the necessary background of the subject in chapter 1. Chapter 2 includes the fundamentals of the algebra, geometry, and calculus of complex numbers. The core topics (Cauchy's theorem and the residue calculus) of complex variable make up chapters 3 and 4. The author then applies the techniques of complex variables to various boundary value problems in chapter 5. A few of the more mathematically challenging results and their proofs are discussed in Chapter 6. McGehee includes more than 520 exercises (many with hints), nearly 100 detailed examples, and Mathematical-generated illustrations on approximately 20 percent of the pages. These features enable readers to deepen their geometric, computational, and theoretical understanding of the material. Upper-division undergraduates through professionals. (CHOICE, April 2001, Vol. 38, No. 8)

A versatile textbook offering all the material, at an appropriate level of treatment, for a first course...in complex analysis but also containing some more advanced material in the final chapter. A useful feature is that each chapter ends with not only a selection of exercises but also a "Hints on selected exercises" section. (Aslib Book Guide, May 2001, Vol 66, No 5)

"...sophisticated approach that stresses the geometry of complex mappings." (Journal of Natural Products American Mathematical Monthly, November 2001)

"...gives a solid introduction to function theory...emphasized by many pictures that help the student a lot to understand better they underlying concepts." (Zentralblatt MATH, Vol. 970, 2001/20)

"...deserves to join the list of classic texts that precede it..." (*SIAM Review*, Vol. 44, No. 1, March 2002)

"...stylish, up-to-date text...a very welcome addition to the literature." (*The Mathematical Gazette*, Vol. 86, No. 506, 2002)

From the Back Cover

Recent decades have seen profound changes in the way we understand complex analysis. This new work presents a much-needed modern treatment of the subject, incorporating the latest developments and providing a rigorous yet accessible introduction to the concepts and proofs of this fundamental branch of mathematics. With its thorough review of the prerequisites and well-balanced mix of theory and practice, this book will appeal both to readers interested in pursuing advanced topics as well as those wishing to explore the many applications of complex analysis to engineering and the physical sciences.

- * Reviews the necessary calculus, bringing readers quickly up to speed on the material
- * Illustrates the theory, techniques, and reasoning through the use of short proofs and many examples
- * Demystifies complex versus real differentiability for functions from the plane to the plane
- * Develops Cauchy's Theorem, presenting the powerful and easy-to-use winding-number version
- * Contains over 100 sophisticated graphics to provide helpful examples and reinforce important concepts

Users Review

From reader reviews:

Jon Harrill:

Book is to be different for every grade. Book for children until finally adult are different content. We all know that that book is very important usually. The book An Introduction to Complex Analysis was making you to know about other knowledge and of course you can take more information. It doesn't matter what advantages for you. The book An Introduction to Complex Analysis is not only giving you a lot more new information but also to be your friend when you truly feel bored. You can spend your personal spend time to read your book. Try to make relationship together with the book An Introduction to Complex Analysis. You never really feel lose out for everything should you read some books.

Donald Lester:

This An Introduction to Complex Analysis is great guide for you because the content that is full of information for you who all always deal with world and get to make decision every minute. This particular book reveal it info accurately using great arrange word or we can state no rambling sentences in it. So if you are read the item hurriedly you can have whole facts in it. Doesn't mean it only offers you straight forward sentences but hard core information with wonderful delivering sentences. Having An Introduction to Complex Analysis in your hand like keeping the world in your arm, details in it is not ridiculous one particular. We can say that no e-book that offer you world throughout ten or fifteen minute right but this guide already do that. So , this really is good reading book. Hello Mr. and Mrs. active do you still doubt that?

Floyd Lipp:

Beside that An Introduction to Complex Analysis in your phone, it could possibly give you a way to get nearer to the new knowledge or facts. The information and the knowledge you will got here is fresh from oven so don't possibly be worry if you feel like an older people live in narrow village. It is good thing to have An Introduction to Complex Analysis because this book offers to your account readable information. Do you often have book but you do not get what it's interesting features of. Oh come on, that won't happen if you have this in your hand. The Enjoyable blend here cannot be questionable, including treasuring beautiful island. So do you still want to miss it? Find this book in addition to read it from currently!

Christopher Gonzalez:

E-book is one of source of know-how. We can add our knowledge from it. Not only for students but additionally native or citizen have to have book to know the revise information of year in order to year. As we know those ebooks have many advantages. Beside we all add our knowledge, can also bring us to around the world. With the book An Introduction to Complex Analysis we can have more advantage. Don't you to definitely be creative people? For being creative person must choose to read a book. Just simply choose the best book that acceptable with your aim. Don't be doubt to change your life at this time book An Introduction to Complex Analysis. You can more desirable than now.

**Download and Read Online An Introduction to Complex Analysis
By O. Carruth McGehee #XA1C2LKI5VH**

Read An Introduction to Complex Analysis By O. Carruth McGehee for online ebook

An Introduction to Complex Analysis By O. Carruth McGehee 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 An Introduction to Complex Analysis By O. Carruth McGehee books to read online.

Online An Introduction to Complex Analysis By O. Carruth McGehee ebook PDF download

An Introduction to Complex Analysis By O. Carruth McGehee Doc

An Introduction to Complex Analysis By O. Carruth McGehee Mobipocket

An Introduction to Complex Analysis By O. Carruth McGehee EPub

XA1C2LKI5VH: An Introduction to Complex Analysis By O. Carruth McGehee