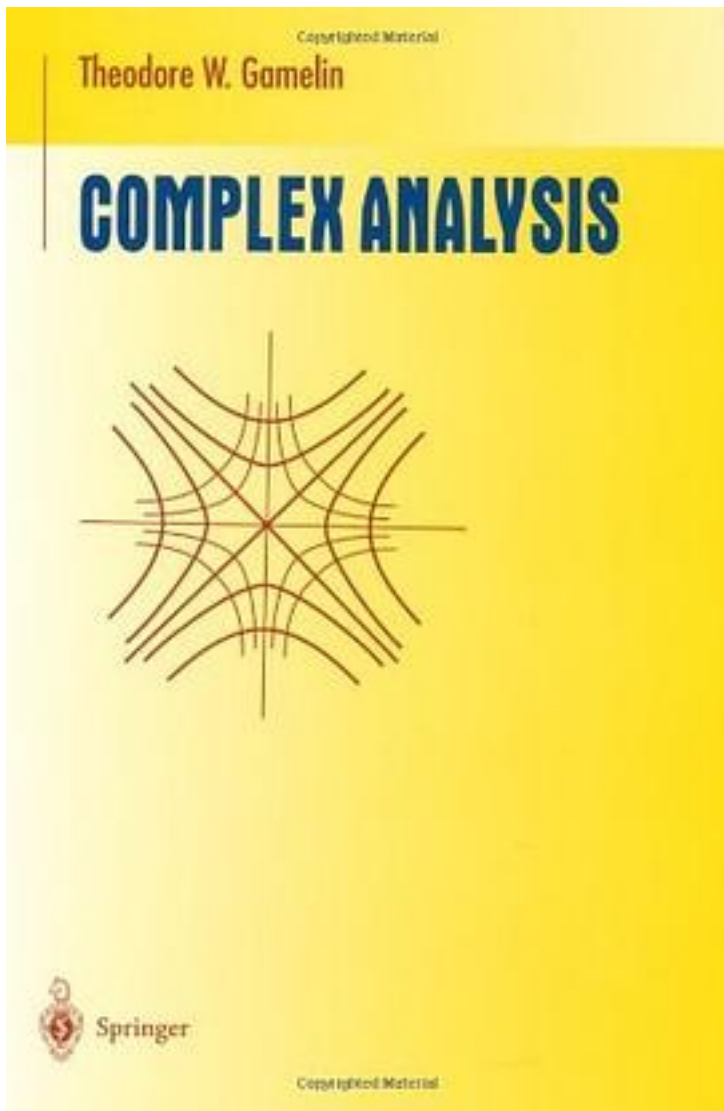


Complex Analysis



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With this second volume, we enter the intriguing world of complex analysis. From the first theorems on, the elegance and sweep of the results is evident. The starting point is the simple idea of extending a function initially given for real values of the argument to one that is defined when the argument is complex. From there, one proceeds to the main properties of holomorphic functions, whose proofs are generally short and quite illuminating: the Cauchy theorems, residues, analytic continuation, the argument principle. With this background, the reader is ready to learn a wealth of additional material connecting the subject with other areas of mathematics: the Fourier transform treated by contour integration, the zeta function and the prime number theorem, and an introduction to elliptic functions culminating in their application to combinatorics and number theory. Thoroughly developing a subject with many ramifications, while striking a careful balance between conceptual insights and the technical underpinnings of rigorous analysis, "Complex Analysis" will be welcomed by students of mathematics, physics, engineering and other sciences. "The Princeton Lectures in Analysis" represents a sustained effort to introduce the core areas of mathematical analysis while also illustrating the organic unity between them. Numerous examples and applications throughout its four planned volumes, of which "Complex Analysis" is the second, highlight the far-reaching consequences of certain ideas in analysis to other fields of mathematics and a variety of sciences. Stein and Shakarchi move from an introduction addressing "Fourier" series and integrals to in-depth considerations of complex analysis; measure and integration theory, and Hilbert spaces; and, finally, further topics such as functional analysis, distributions and elements of probability theory.

作者介绍:

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标签

数学

复分析

complex_analysis

Analysis

数学经典教材

Mathematics

Elias.M.Stein

分析

评论

这本书还是经典的分析

good for beginner.

复分析真美好

经典啊

好费脑细胞...

写的东西有点少，不过很直观，顺序安排非常合理

在老师引导下尝试接触，收益颇丰。

大概有一小半的内容都在讲数论的东西

写的挺好的，stein的一系列书

试着用我个人视角的大框去感受这些数学规律背后的意义和适用范围。

很不错的教材。复分析还是难的啊，主要是大一数分没学好，需要再看的。

一刷

读的有点慢，不过总算搞定了。期间没有忍住诱惑刷代数题去了，我对代数一定是真爱。
。

很自然

感觉自学用这本书的话会比较困难，习题没有答案啊啊啊啊，做作业太痛苦了

这是最好的

只读到了conformal mapping

简洁明快，引人入胜，习题蛋疼

GREAT~除了观点比较高讲的内容比较多 -- 感觉读起来挺累的。。。

教材

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书评

读书时学的不扎实。现在做研究了，对于关联复分析的东西老是发憊，花了大概3天时间，恶补了一下复分析的知识。简单说一下 1.
首先是这本书：5星好评。读其他的书的时候（尤其是国内的复分析教材），基本是定理+习题；定理+习题之类的。这本书的好处在于，对于每一个章节...

Stein写的英文书是好书，但是翻译过来的错误仅仅前两章就有这么多： 1. p7 看到一个”不定可微“一脸懵逼，翻了翻原文才发现是无限可微 2.p15 ”取决于曲线gamma的参数化选择“，且不说这个翻译腔，”不取决于“被翻译成”取决于“，这有任何的可读性吗？同一页下面”长度的定...

书中P47到P48证明柯西型求导公式貌似用到了一个假设：取极限与积分可以交换顺序。h趋于零是在积分号外面的，但证明到后来，貌似就变成了在里面的意思了。请问这是前面有定理支持还是怎么回事？小弟没细读前面。

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