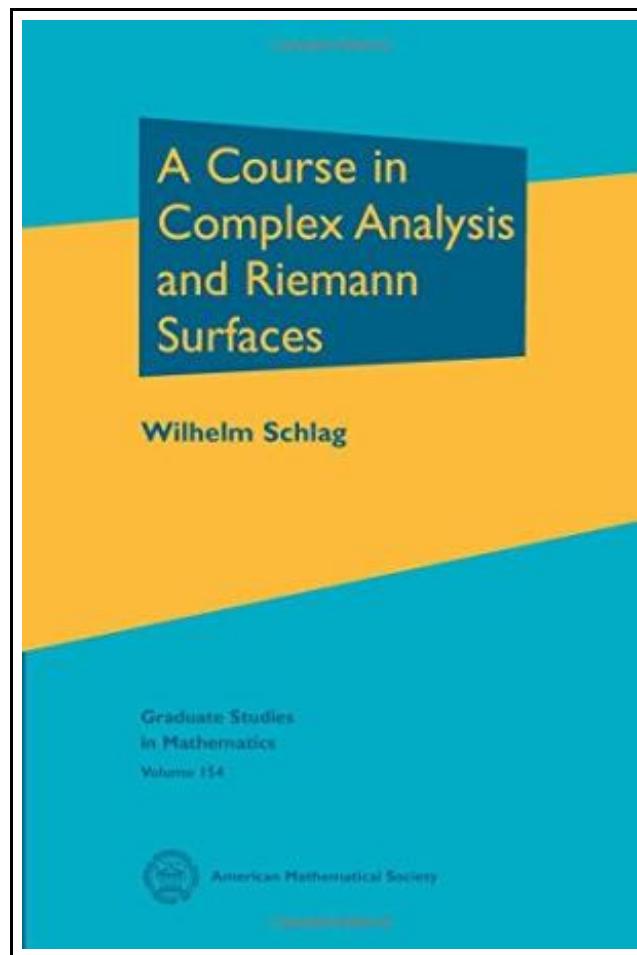


# A Course in Complex Analysis and Riemann Surfaces



Filesize: 2.49 MB

## Reviews

*This type of ebook is every little thing and made me looking ahead of time and more. It is among the most amazing book i actually have read through. Its been designed in an exceptionally simple way in fact it is simply soon after i finished reading through this pdf in which actually transformed me, change the way i believe.*

*(Dr. Ron Kovacek)*

## A COURSE IN COMPLEX ANALYSIS AND RIEMANN SURFACES

[DOWNLOAD](#)

To read **A Course in Complex Analysis and Riemann Surfaces** PDF, you should access the web link listed below and save the file or gain access to additional information which might be have conjunction with A COURSE IN COMPLEX ANALYSIS AND RIEMANN SURFACES book.

American Mathematical Society. Hardback. Book Condition: new. BRAND NEW, A Course in Complex Analysis and Riemann Surfaces, Wilhelm Schlag, Complex analysis is a cornerstone of mathematics, making it an essential element of any area of study in graduate mathematics. Schlag's treatment of the subject emphasizes the intuitive geometric underpinnings of elementary complex analysis that naturally lead to the theory of Riemann surfaces. The book begins with an exposition of the basic theory of holomorphic functions of one complex variable. The first two chapters constitute a fairly rapid, but comprehensive course in complex analysis. The third chapter is devoted to the study of harmonic functions on the disk and the half-plane, with an emphasis on the Dirichlet problem. Starting with the fourth chapter, the theory of Riemann surfaces is developed in some detail and with complete rigor. From the beginning, the geometric aspects are emphasized and classical topics such as elliptic functions and elliptic integrals are presented as illustrations of the abstract theory. The special role of compact Riemann surfaces is explained, and their connection with algebraic equations is established. The book concludes with three chapters devoted to three major results: the Hodge decomposition theorem, the Riemann-Roch theorem, and the uniformization theorem. These chapters present the core technical apparatus of Riemann surface theory at this level. This text is intended as a fairly detailed, yet fast-paced intermediate introduction to those parts of the theory of one complex variable that seem most useful in other areas of mathematics, including geometric group theory, dynamics, algebraic geometry, number theory, and functional analysis. More than seventy figures serve to illustrate concepts and ideas, and the many problems at the end of each chapter give the reader ample opportunity for practice and independent study.

[Read A Course in Complex Analysis and Riemann Surfaces Online](#)[Download PDF A Course in Complex Analysis and Riemann Surfaces](#)

## Related PDFs

---



### [PDF] Dom's Dragon - Read it Yourself with Ladybird: Level 2

Access the web link beneath to download and read "Dom's Dragon - Read it Yourself with Ladybird: Level 2" file.

[Download eBook »](#)

---



### [PDF] YJ] New primary school language learning counseling language book of knowledge [Genuine Specials(Chinese Edition)

Access the web link beneath to download and read "YJ] New primary school language learning counseling language book of knowledge [Genuine Specials(Chinese Edition)" file.

[Download eBook »](#)

---



### [PDF] Fiendly Corners Series: Pizza Zombies - Book #2

Access the web link beneath to download and read "Fiendly Corners Series: Pizza Zombies - Book #2" file.

[Download eBook »](#)

---



### [PDF] Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)

Access the web link beneath to download and read "Grandpa Spanielson's Chicken Pox Stories: Story #1: The Octopus (I Can Read Book 2)" file.

[Download eBook »](#)

---



### [PDF] Shlomo Aronson: Making Peace with the Land, Designing Israel's Landscape

Access the web link beneath to download and read "Shlomo Aronson: Making Peace with the Land, Designing Israel's Landscape" file.

[Download eBook »](#)

---



### [PDF] Read Write Inc. Phonics: Grey Set 7 Non-Fiction 5 a Place in Space: The Moon (Paperback)

Access the web link beneath to download and read "Read Write Inc. Phonics: Grey Set 7 Non-Fiction 5 a Place in Space: The Moon (Paperback)" file.

[Download eBook »](#)