



Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics)

Dror Varolin

Download now

Click here if your download doesn"t start automatically

Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics)

Dror Varolin

Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) Dror Varolin

This book establishes the basic function theory and complex geometry of Riemann surfaces, both open and compact. Many of the methods used in the book are adaptations and simplifications of methods from the theories of several complex variables and complex analytic geometry and would serve as excellent training for mathematicians wanting to work in complex analytic geometry. After three introductory chapters, the book embarks on its central, and certainly most novel, goal of studying Hermitian holomorphic line bundles and their sections. Among other things, finite-dimensionality of spaces of sections of holomorphic line bundles of compact Riemann surfaces and the triviality of holomorphic line bundles over Riemann surfaces are proved, with various applications. Perhaps the main result of the book is Hörmander's Theorem on the square-integrable solution of the Cauchy-Riemann equations. The crowning application is the proof of the Kodaira and Narasimhan Embedding Theorems for compact and open Riemann surfaces. The intended reader has had first courses in real and complex analysis, as well as advanced calculus and basic differential topology (though the latter subject is not crucial). As such, the book should appeal to a broad portion of the mathematical and scientific community. This book is the first to give a textbook exposition of Riemann surface theory from the viewpoint of positive Hermitian line bundles and Hörmander \$/bar /partial\$ estimates. It is more analytical and PDE oriented than prior texts in the field, and is an excellent introduction to the methods used currently in complex geometry, as exemplified in J. P. Demailly's online but otherwise unpublished book "Complex analytic and differential geometry." I used it for a one quarter course on Riemann surfaces and found it to be clearly written and self-contained. It not only fills a significant gap in the large textbook literature on Riemann surfaces but is also rather indispensible for those who would like to teach the subject from a differential geometric and PDE viewpoint.

Download Riemann Surfaces by Way of Complex Analytic Geomet ...pdf

Read Online Riemann Surfaces by Way of Complex Analytic Geom ...pdf

Download and Read Free Online Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) Dror Varolin

From reader reviews:

Robert Goddard:

What do you concerning book? It is not important together with you? Or just adding material if you want something to explain what you problem? How about your free time? Or are you busy particular person? If you don't have spare time to complete others business, it is make you feel bored faster. And you have spare time? What did you do? All people has many questions above. They must answer that question mainly because just their can do in which. It said that about e-book. Book is familiar on every person. Yes, it is suitable. Because start from on jardín de infancia until university need this particular Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) to read.

Michael Kelly:

This book untitled Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) to be one of several books that will best seller in this year, that's because when you read this e-book you can get a lot of benefit on it. You will easily to buy this particular book in the book store or you can order it by way of online. The publisher in this book sells the e-book too. It makes you quicker to read this book, as you can read this book in your Mobile phone. So there is no reason to your account to past this reserve from your list.

Rosa Rodriguez:

In this age globalization it is important to someone to find information. The information will make someone to understand the condition of the world. The healthiness of the world makes the information simpler to share. You can find a lot of personal references to get information example: internet, paper, book, and soon. You can see that now, a lot of publisher this print many kinds of book. The book that recommended to you personally is Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) this e-book consist a lot of the information of the condition of this world now. This specific book was represented just how can the world has grown up. The terminology styles that writer make usage of to explain it is easy to understand. Typically the writer made some analysis when he makes this book. That's why this book appropriate all of you.

Oscar Barr:

As we know that book is significant thing to add our know-how for everything. By a e-book we can know everything we want. A book is a range of written, printed, illustrated or even blank sheet. Every year was exactly added. This reserve Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) was filled regarding science. Spend your free time to add your knowledge about your science competence. Some people has various feel when they reading some sort of book. If you know how big good thing about a book, you can truly feel enjoy to read a book. In the modern era like right now, many ways to get book you wanted.

Download and Read Online Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) Dror Varolin #A6FDSUVT92X

Read Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) by Dror Varolin for online ebook

Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) by Dror Varolin 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 Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) by Dror Varolin books to read online.

Online Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) by Dror Varolin ebook PDF download

Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) by Dror Varolin Doc

Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) by Dror Varolin Mobipocket

Riemann Surfaces by Way of Complex Analytic Geometry (Graduate Studies in Mathematics) by Dror Varolin EPub