Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics)

Scott A. Wolpert

Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics)

Scott A. Wolpert

Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) Scott A. Wolpert

This book is the companion to the CBMS lectures of Scott Wolpert at Central Connecticut State University. The lectures span across areas of research progress on deformations of hyperbolic surfaces and the geometry of the Weil-Petersson metric. The book provides a generally self-contained course for graduate students and postgraduates. The exposition also offers an update for researchers; material not otherwise found in a single reference is included. A unified approach is provided for an array of results. The exposition covers Wolpert's work on twists, geodesic-lengths and the Weil-Petersson symplectic structure; Wolpert's expansions for the metric, its Levi-Civita connection and Riemann tensor. The exposition also covers Brock's twisting limits, visual sphere result and pants graph quasi isometry, as well as the Brock-Masur-Minsky construction of ending laminations for Weil-Petersson geodesics. The rigidity results of Masur-Wolf and Daskalopoulos-Wentworth, following the approach of Yamada, are included. The book concludes with a generally self-contained treatment of the McShane-Mirzakhani length identity, Mirzakhani's volume recursion, approach to Witten-Kontsevich theory by hyperbolic geometry, and prime simple geodesic theorem. Lectures begin with a summary of the geometry of hyperbolic surfaces and approaches to the deformation theory of hyperbolic surfaces. General expositions are included on the geometry and topology of the moduli space of Riemann surfaces, the $CAT(0)$ geometry of the augmented Teichmÿ¼ller space, measured geodesic and ending laminations, the deformation theory of the prescribed curvature equation, and the Hermitian description of Riemann tensor. New material is included on estimating orbit sums as an approach for the potential theory of surfaces. A co-publication of the AMS and CBMS.

Download and Read Free Online Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) Scott A. Wolpert

From reader reviews:

Roger Hodge:

This book untitled Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) to be one of several books that best seller in this year, this is because when you read this e-book you can get a lot of benefit on it. You will easily to buy that book in the book retailer or you can order it by using online. The publisher of this book sells the e-book too. It makes you more readily to read this book, since you can read this book in your Touch screen phone. So there is no reason to you personally to past this publication from your list.

Kristen Blasingame:

Reading a guide can be one of a lot of exercise that everyone in the world enjoys. Do you like reading book therefore. There are a lot of reasons why people fantastic. First reading a publication will give you a lot of new data. When you read a reserve you will get new information because book is one of a number of ways to share the information or maybe their idea. Second, studying a book will make an individual more imaginative. When you looking at a book especially tale fantasy book the author will bring one to imagine the story how the personas do it anything. Third, you are able to share your knowledge to other folks. When you read this Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics), you can tells your family, friends and soon about yours guide. Your knowledge can inspire average, make them reading a publication.

Belinda Fergerson:

Precisely why? Because this Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) is an unordinary book that the inside of the book waiting for you to snap that but latter it will jolt you with the secret it inside. Reading this book alongside it was fantastic author who also write the book in such wonderful way makes the content inside easier to understand, entertaining method but still convey the meaning entirely. So , it is good for you for not hesitating having this nowadays or you going to regret it. This book will give you a lot of rewards than the other book include such as help improving your talent and your critical thinking method. So , still want to hold up having that book? If I ended up you I will go to the reserve store hurriedly.

Donald Thomas:

Reading can called thoughts hangout, why? Because while you are reading a book mainly book entitled Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) your thoughts will drift away trough every dimension, wandering in most aspect that maybe not known for but surely will end up your mind friends. Imaging every single word written in a reserve then become one contact form conclusion and explanation this maybe you never get just before. The Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics)

giving you an additional experience more than blown away the mind but also giving you useful data for your better life on this era. So now let us teach you the relaxing pattern this is your body and mind will be pleased when you are finished reading it, like winning a. Do you want to try this extraordinary spending spare time activity?

Download and Read Online Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) Scott A. Wolpert #I87R1POM2DV

Read Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) by Scott A. Wolpert for online ebook

Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) by Scott A. Wolpert 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 Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) by Scott A. Wolpert books to read online.

Online Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) by Scott A. Wolpert ebook PDF download

Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) by Scott A. Wolpert Doc

Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) by Scott A. Wolpert Mobipocket

Families of Riemann Surfaces and Weil-petersson Geometry (CBMS Regional Conference Series in Mathematics) by Scott A. Wolpert EPub