

Graduate Texts in Mathematics

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Surfaces**

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Riemann Surfaces Graduate Texts In Mathematics

William Mark Goldman, Eugene Zhu Xia



Riemann Surfaces Graduate Texts In Mathematics:

Lectures on Riemann Surfaces Otto Forster, 2012-12-06 This book grew out of lectures on Riemann surfaces which the author gave at the universities of Munich Regensburg and Munster Its aim is to give an introduction to this rich and beautiful subject while presenting methods from the theory of complex manifolds which in the special case of one complex variable turn out to be particularly elementary and transparent The book is divided into three chapters In the first chapter we consider Riemann surfaces as covering spaces and develop a few basics from topology which are needed for this Then we construct the Riemann surfaces which arise via analytic continuation of function germs In particular this includes the Riemann surfaces of algebraic functions As well we look more closely at analytic functions which display a special multi valued behavior Examples of this are the primitives of holomorphic 1 forms and the solutions of linear differential equations The second chapter is devoted to compact Riemann surfaces The main classical results like the Riemann Roch Theorem Abel s Theorem and the Jacobi inversion problem are presented Sheaf cohomology is an important technical tool But only the first cohomology groups are used and these are comparatively easy to handle The main theorems are all derived following Serre from the finite dimensionality of the first cohomology group with coefficients in the sheaf of holomorphic functions And the proof of this is based on the fact that one can locally solve inhomogeneous Cauchy Riemann equations and on Schwarz Lemma

Riemann Surfaces Hershel M. Farkas, Irwin Kra, 1991-12-23 This text covers Riemann surface theory from elementary aspects to the frontiers of current research Open and closed surfaces are treated with emphasis on the compact case while basic tools are developed to describe the analytic geometric and algebraic properties of Riemann surfaces and the associated Abelian varieties Topics covered include existence of meromorphic functions the Riemann Roch theorem Abel s theorem the Jacobi inversion problem Noether s theorem and the Riemann vanishing theorem A complete treatment of the uniformization of Riemann surfaces via Fuchsian groups including branched coverings is presented as are alternate proofs for the most important results showing the diversity of approaches to the subject Of interest not only to pure mathematicians but also to physicists interested in string theory and related topics

Riemann Surfaces Simon Donaldson, 2011-03-25 The theory of Riemann surfaces occupies a very special place in mathematics It is a culmination of much of traditional calculus making surprising connections with geometry and arithmetic It is an extremely useful part of mathematics knowledge of which is needed by specialists in many other fields It provides a model for a large number of more recent developments in areas including manifold topology global analysis algebraic geometry Riemannian geometry and diverse topics in mathematical physics This graduate text on Riemann surface theory proves the fundamental analytical results on the existence of meromorphic functions and the Uniformisation Theorem The approach taken emphasises PDE methods applicable more generally in global analysis The connection with geometric topology and in particular the role of the mapping class group is also explained To this end some more sophisticated topics have been included compared with

traditional texts at this level While the treatment is novel the roots of the subject in traditional calculus and complex analysis are kept well in mind Part I sets up the interplay between complex analysis and topology with the latter treated informally Part II works as a rapid first course in Riemann surface theory including elliptic curves The core of the book is contained in Part III where the fundamental analytical results are proved Following this section the remainder of the text illustrates various facets of the more advanced theory

Complex Analysis in One Variable and Riemann Surfaces Mei-Chi Shaw, Charles M. Stanton, 2026-01-01 This textbook is intended for an introductory course in the theory of complex analysis and Riemann surfaces A special feature includes the systematic treatment of complex analysis from the point of view of partial differential equations The main goal is to study complex analysis in one variable using modern mathematics with emphasis on its deep connections to other branches of mathematics especially on the tremendous development of partial differential equations in the twentieth century The book can also be used as a reference for students and researchers interested in modern concepts and techniques in one and several complex variables algebraic and complex geometry partial differential equations and geometric analysis The book is reasonably self contained with much background material given in the appendices Many examples and exercises are provided The text is based on lecture notes taught by the first author over the years at the University of Notre Dame to widely varied audiences including students in mathematics physics engineering and other sciences By taking advantage of the development of Hilbert space methods in partial differential equations this textbook provides a much needed update on complex function theory and Riemann surfaces In the first five chapters the authors introduce some background material in complex analysis in one variable using only multivariable calculus This includes the Cauchy integral formula with its applications the Riemann mapping theorem and the theorems of Weierstrass and Mittag Leffler Starting from Chapter 6 a comprehensive study of the roles that partial differential equations play in complex analysis is presented systematically with focus on the Cauchy Riemann equation and the Laplacian A thorough treatment of the Laplace and Poisson equations with both classical and Hilbert space approaches is given and applied to obtain function theory on Riemann surfaces The book also introduces several complex variables and bridges the gap between one and several complex variables

A Course in Complex Analysis and Riemann Surfaces Wilhelm Schlag, 2014-08-06 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 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

Algebraic Curves and Riemann Surfaces Rick

Miranda,2025-10-10 The book was easy to understand with many examples The exercises were well chosen and served to give further examples and developments of the theory William Goldman University of Maryland In this book Miranda takes the approach that algebraic curves are best encountered for the first time over the complex numbers where the reader's classical intuition about surfaces integration and other concepts can be brought into play Therefore many examples of algebraic curves are presented in the first chapters In this way the book begins as a primer on Riemann surfaces with complex charts and meromorphic functions taking center stage But the main examples come from projective curves and slowly but surely the text moves toward the algebraic category Proofs of the Riemann Roch and Serre Duality Theorems are presented in an algebraic manner via an adaptation of the adelic proof expressed completely in terms of solving a Mittag Leffler problem Sheaves and cohomology are introduced as a unifying device in the latter chapters so that their utility and naturalness are immediately obvious Requiring a background of one semester of complex variable theory and a year of abstract algebra this is an excellent graduate textbook for a second semester course in complex variables or a year long course in algebraic geometry

An Introduction to Riemann Surfaces Terrence Napier,Mohan

Ramachandran,2011-09-08 This textbook presents a unified approach to compact and noncompact Riemann surfaces from the point of view of the so called L^2 bar delta method This method is a powerful technique from the theory of several complex variables and provides for a unique approach to the fundamentally different characteristics of compact and noncompact Riemann surfaces The inclusion of continuing exercises running throughout the book which lead to generalizations of the main theorems as well as the exercises included in each chapter make this text ideal for a one or two semester graduate course

Topics on Riemann Surfaces and Fuchsian Groups Emilio Bujalance García,A. F. Costa,E. Martínez,2001-06-14 Introduction to Riemann surfaces for graduates and researchers giving refreshingly new insights into the subject

Riemann Surfaces by Way of Complex Analytic Geometry Dror Varolin,2011-08-10 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 Hormander'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 Hormander's 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 indispensable for those who would like to teach the subject from a differential geometric and PDE viewpoint Steven Zelditch *Reshetnyak's Theory of Subharmonic Metrics* François Fillastre, Dmitriy Slutskiy, 2023-09-15 Despite the fundamental role played by Reshetnyak's work in the theory of surfaces of bounded integral curvature the proofs of his results were only available in his original articles written in Russian and often hard to find This situation used to be a serious problem for experts in the field This book provides English translations of the full set of Reshetnyak's articles on the subject Together with the companion articles this book provides an accessible and comprehensive reference for the subject In turn this book should concern any researcher confirmed or not interested in or active in the field of bounded integral curvature surfaces or more generally interested in surface geometry and geometric analysis Due to the analytic nature of Reshetnyak's approach it appears that his articles are very accessible for a modern audience comparing to the works using a more synthetic approach These articles of Reshetnyak concern more precisely the work carried by the author following the completion of his PhD thesis under the supervision of A D Alexandrov Over the period from the 1940's to the 1960's the Leningrad School of Geometry developed a theory of the metric geometry of surfaces similar to the classical theory of Riemannian surfaces but with lower regularity allowing greater flexibility Let us mention A D Alexandrov Y D Burago and V A Zalgaller The types of surfaces studied by this school are now known as surfaces of bounded curvature Particular cases are that of surfaces with curvature bounded from above or below the study of which gained special attention after the works of M Gromov and G Perelman Nowadays these concepts have been generalized to higher dimensions to graphs and so on and the study of metrics of weak regularity remains an active and

challenging field Reshetnyak developed an alternative and analytic approach to surfaces of bounded integral curvature The underlying idea is based on the theorem of Gauss which states that every Riemannian surface is locally conformal to Euclidean space Reshetnyak thus studied generalized metrics which are locally conformal to the Euclidean metric with conformal factor given by the logarithm of the difference between two subharmonic functions on the plane Reshetnyak's condition appears to provide the correct regularity required to generalize classical concepts such as measure of curvature integral geodesic curvature for curves and so on and in turn to recover surfaces of bounded curvature Chapter No 7 Chapter No 8 Chapter No 12 and Chapter No 13 are available open access under Creative Commons Attribution NonCommercial 4.0 International License via link springer.com *Lectures on Riemann Surfaces* Otto Forster, Bruce Gilligan, 1981-11-02

Rank One Higgs Bundles and Representations of Fundamental Groups of Riemann Surfaces William Mark Goldman, Eugene Zhu Xia, 2008 This expository article details the theory of rank one Higgs bundles over a closed Riemann surface X and their relation to representations of the fundamental group of X The authors construct an equivalence between the deformation theories of flat connections and Higgs pairs This provides an identification of moduli spaces arising in different contexts The moduli spaces are real Lie groups From each context arises a complex structure and the different complex structures define a hyperkähler structure The twistor space real forms and various group actions are computed explicitly in terms of the Jacobian of X The authors describe the moduli spaces and their geometry in terms of the Riemann period matrix of X **Algebraic Integrability, Painlevé Geometry and Lie Algebras** Mark Adler, Pierre van Moerbeke, Pol Vanhaecke, 2013-03-14 This *Ergebnisse* volume is aimed at a wide readership of mathematicians and physicists graduate students and professionals The main thrust of the book is to show how algebraic geometry Lie theory and Painlevé analysis can be used to explicitly solve integrable differential equations and construct the algebraic tori on which they linearize at the same time it is for the student a playing ground to applying algebraic geometry and Lie theory The book is meant to be reasonably self contained and presents numerous examples The latter appear throughout the text to illustrate the ideas and make up the core of the last part of the book The first part of the book contains the basic tools from Lie groups algebraic and differential geometry to understand the main topic *Research Connections* Abra Brisbin, Karen Lange, Erin McNicholas, Emilie Purvine, 2025-02-18 What does math research really look like Which subfield is right for me Do people like me go to graduate school and succeed This book provides students a sneak preview of math research in a variety of subfields Each chapter features the work of a different mathematician along with enough background material for an advanced undergraduate or early graduate student to understand the key ideas and get a sense for the styles of thinking involved in each subfield Each chapter is prefaced by a short biography of the mathematician who wrote the chapter all people connected to the Carleton College Summer Math Program for Women providing advice and examples of paths from undergraduate education through graduate school and beyond This book provides a source of ideas and starting points for in

class projects independent studies and student talks as well as supplementary reading in courses The profiles of early career mathematicians and statisticians at the beginning of each chapter are valuable as an advising resource for students considering graduate school or to show students a diverse view of modern mathematicians in a Math for Liberal Arts style course

In the Tradition of Ahlfors-Bers, VII Ara S. Basmajian, Yair N. Minsky, Alan W. Reid, 2017-08-17 The Ahlfors Bers Colloquia commemorate the mathematical legacy of Lars Ahlfors and Lipman Bers The core of this legacy lies in the fields of geometric function theory Teichmüller theory hyperbolic geometry and partial differential equations Today we see the influence of Ahlfors and Bers on algebraic geometry mathematical physics dynamics probability geometric group theory number theory and topology Recent years have seen a flowering of this legacy with an increased interest in their work This current volume contains articles on a wide variety of subjects that are central to this legacy These include papers in Kleinian groups classical Riemann surface theory Teichmüller theory mapping class groups geometric group theory and statistical mechanics

Integrable Systems N. J. Hitchin, G. B. Segal, R. S. Ward, 1999-03-18 This textbook is designed to give graduate students an understanding of integrable systems via the study of Riemann surfaces loop groups and twistors The authors are internationally renowned both as researchers and expositors and the book is written in an informal and accessible style

Publicationes mathematicae Kossuth Lajos Tudományegyetem. Matematikai Intézet, 1983

Physics of Atomic Nuclei, 1993 *Transactions of the American Mathematical Society*, 1996 American Journal of Mathematics, 2000 The American Journal of Mathematics publishes research papers and articles of broad appeal covering the major areas of contemporary mathematics

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