

Riemann Surfaces

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Wolfgang Ebeling

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Riemann Surfaces Hershel M. Farkas, Irwin Kra, 1991-12-23 This text covers Riemann surface theory from elementary aspects to the fontiers 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 varities 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 sufaces 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 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 i 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 Simon Donaldson, 2011-03-24 An authoritative but accessible text on one dimensional complex manifolds or Riemann surfaces Dealing with the main results on Riemann surfaces from a variety of points of view it pulls together material from global analysis topology and algebraic geometry and covers the essential mathematical methods and tools 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 L2 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 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 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 Laplacian Growth on Branched Riemann Surfaces Björn Gustafsson, Yu-Lin Lin, 2021-03-22 This book studies solutions of the Polubarinova Galin and L wner Kufarev equations which describe the evolution of a viscous fluid Hele Shaw blob after the time when these solutions have lost their physical meaning due to loss of univalence of the mapping function involved When the mapping function is no longer locally univalent interesting phase transitions take place leading to structural changes in the data of the solution for example new zeros and poles in the case of rational maps This topic intersects with several areas including mathematical physics potential theory and complex analysis The text will be valuable to researchers and doctoral students interested in fluid dynamics integrable systems and conformal field theory Hamiltonian Systems and Their Integrability Mich'le Audin, 2008 Hamiltonian systems began as a mathematical approach to the study of mechanical systems As the theory developed it became clear that the systems that had a sufficient number of conserved quantities enjoyed certain remarkable properties. These are the completely integrable systems In time a rich interplay arose between integrable systems and other areas of mathematics particularly topology geometry and group theory This book presents some modern techniques in the theory of integrable systems viewed as variations on the theme of action angle coordinates These techniques include analytical methods coming from the Galois

theory of differential equations as well as more classical algebro geometric methods related to Lax equations Audin has included many examples and exercises Most of the exercises build on the material in the text None of the important proofs have been relegated to the exercises Many of the examples are classical rather than abstract This book would be suitable for a graduate course in Hamiltonian systems Advances in Topological Quantum Field Theory John M. Bryden, 2007-09-27 This volume is the conference proceedings of the NATO ARW during August 2001 at Kananaskis Village Canada on New Techniques in Topological Quantum Field Theory This conference brought together specialists from a number of different fields all related to Topological Quantum Field Theory The theme of this conference was to attempt to find new methods in quantum topology from the interaction with specialists in these other fields. The featured articles include papers by V Vassiliev on combinatorial formulas for cohomology of spaces of Knots the computation of Ohtsuki series by N Jacoby and R Lawrence and a paper by M Asaeda and J Przytycki on the torsion conjecture for Khovanov homology by Shumakovitch Moreover there are articles on more classical topics related to manifolds and braid groups by such well known authors as D Rolfsen H Zieschang and F Cohen 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 Riemann Surfaces Hershel M. Farkas, Irwin Kra, 2012-12-06 It is gratifying to learn that there is new life in an old field that has been at the center of one s existence for over a quarter of a century It is particularly pleasing that the subject of Riemann surfaces has attracted the attention of a new generation of mathematicians from newly adjacent fields for example those interested in hyperbolic manifolds and iterations of rational maps and young physicists who have been convinced certainly not by mathematicians that compact Riemann surfaces may play an important role in their string universe We hope that non mathematicians as well as mathematicians working in nearby areas to the central topic of this book will also learn part of this subject for the sheer beauty and elegance of the material work of Weierstrass Jacobi Riemann Hilbert Weyl and as healthy exposure to the way some mathematicians write about mathematics We had intended a more comprehensive revision including a fuller treatment of moduli problems and theta functions Pressure of other commitments would have substantially delayed by years the appearance of the book we wanted to produce We have chosen instead to make a few modest additions and to correct a number of errors We are grateful to the readers who pointed out some of our mistakes in the first edition the responsibility for the remaining mistakes carried over from the first edition and for any new ones introduced into the second edition remains with the authors June 1991 Jerusalem H M

In the Tradition of Ahlfors-Bers, IV Richard Douglas Canary,2007 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 Teichmuller theory hyperbolic manifolds and partial differential equations However the work of Ahlfors and Bers has impacted and created interactions with many other fields such as algebraic geometry mathematical physics dynamics geometric group theory number theory and topology The triannual Ahlford Bers colloquia serve as a venue to disseminate the relevant work to the wider mathematical community and bring the key participants together to ponder future directions in the field The present volume includes a wide range of articles in the fields central to this legacy The majority of articles present new results but there are expository articles as well

Functions of Several Complex Variables and Their Singularities Wolfgang Ebeling,2007 The book provides an introduction to the theory of functions of several complex variables and their singularities with special emphasis on topological aspects The topics include Riemann surfaces holomorphic functions of several variables classification and deformation of singularities fundamentals of differential topology and the topology of singularities The aim of the book is to guide the reader from the fundamentals to more advanced topics of recent research All the necessary prerequisites are specified and carefully explained The general theory is

illustrated by various examples and applications The Influence of Solomon Lefschetz in Geometry and Topology Ernesto Lupercio, Francisco J. Turrubiates, 2014-08-05 The influence of Solomon Lefschetz 1884 1972 in geometry and topology 40 years after his death has been very profound Lefschetz s influence in Mexican mathematics has been even greater In this volume celebrating 50 years of mathematics at Cinvestav M xico many of the fields of geometry and topology are represented by some of the leaders of their respective fields. This volume opens with Michael Atiyah reminiscing about his encounters with Lefschetz and M xico Topics covered in this volume include symplectic flexibility Chern Simons theory and the theory of classical theta functions toric topology the Beilinson conjecture for finite dimensional associative algebras partial monoids and Dold Thom functors the weak b principle orbit configuration spaces equivariant extensions of differential forms for noncompact Lie groups dynamical systems and categories and the Nahm pole boundary condition Introduction to Compactness Results in Symplectic Field Theory Casim Abbas, 2014-01-07 This book provides an introduction to symplectic field theory a new and important subject which is currently being developed. The starting point of this theory are compactness results for holomorphic curves established in the last decade The author presents a systematic introduction providing a lot of background material much of which is scattered throughout the literature Since the content grew out of lectures given by the author the main aim is to provide an entry point into symplectic field theory for non specialists and for graduate students Extensions of certain compactness results which are believed to be true by the specialists but have not yet been published in the literature in detail top off the scope of this monograph The Geometry of Schemes David Eisenbud, Joe Harris, 2006-04-06 Grothendieck's beautiful theory of schemes permeates modern algebraic geometry and underlies its applications to number theory physics and applied mathematics. This simple account of that theory emphasizes and explains the universal geometric concepts behind the definitions In the book concepts are illustrated with fundamental examples and explicit calculations show how the constructions of scheme theory are carried out in practice Series, Summability and Resurgence III Eric Delabaere, 2016-06-28 The aim of this volume is two fold First to show how the resurgent methods introduced in volume 1 can be applied efficiently in a non linear setting to this end further properties of the resurgence theory must be developed Second to analyze the fundamental example of the First Painley equation The resurgent analysis of singularities is pushed all the way up to the so called bridge equation which concentrates all information about the non linear Stokes phenomenon at infinity of the First Painlev equation The third in a series of three entitled Divergent Series Summability and Resurgence this volume is aimed at graduate students mathematicians and theoretical physicists who are interested in divergent power series and related problems such as the Stokes phenomenon The prerequisites are a working knowledge of complex analysis at the first year graduate level and of the theory of resurgence as presented in volume 1 Algebraic Geometry II: Cohomology of Schemes Ulrich Görtz, Torsten Wedhorn, 2023-11-22 This book completes the comprehensive introduction to modern algebraic geometry which was started with the introductory

volume Algebraic Geometry I Schemes It begins by discussing in detail the notions of smooth unramified and tale morphisms including the tale fundamental group The main part is dedicated to the cohomology of quasi coherent sheaves The treatment is based on the formalism of derived categories which allows an efficient and conceptual treatment of the theory which is of crucial importance in all areas of algebraic geometry After the foundations are set up several more advanced topics are studied such as numerical intersection theory an abstract version of the Theorem of Grothendieck Riemann Roch the Theorem on Formal Functions Grothendieck's algebraization results and a very general version of Grothendieck duality The book concludes with chapters on curves and on abelian schemes which serve to develop the basics of the theory of these two important classes of schemes on an advanced level and at the same time to illustrate the power of the techniques introduced previously The text contains many exercises that allow the reader to check their comprehension of the text present further examples or give an outlook on further results Geometry and Quantization of Moduli Spaces Vladimir Fock, Andrey Marshakov, Florent Schaffhauser, Constantin Teleman, Richard Wentworth, 2016-12-25 This volume is based on four advanced courses held at the Centre de Recerca Matem tica CRM Barcelona It presents both background information and recent developments on selected topics that are experiencing extraordinary growth within the broad research area of geometry and quantization of moduli spaces. The lectures focus on the geometry of moduli spaces which are mostly associated to compact Curves, Jacobians, and Abelian Riemann surfaces and are presented from both classical and quantum perspectives Varieties Ron Donagi, 1992 This volume contains the proceedings of an AMS IMS SIAM Joint Summer Research Conference on the Schottky Problem held in June 1990 at the University of Massachusetts at Amherst The conference explored various aspects of the Schottky problem of characterizing Jacobians of curves among all abelian varieties Some of the articles study related themes including the moduli of stable vector bundles on a curve Prym varieties and intermediate Jacobians and special Jacobians with exotic polarizations or product structures

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Table of Contents Riemann Surfaces Graduate Texts In Mathematics

- 1. Understanding the eBook Riemann Surfaces Graduate Texts In Mathematics
 - The Rise of Digital Reading Riemann Surfaces Graduate Texts In Mathematics
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Riemann Surfaces Graduate Texts In Mathematics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Riemann Surfaces Graduate Texts In Mathematics
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Riemann Surfaces Graduate Texts In Mathematics
 - Personalized Recommendations
 - Riemann Surfaces Graduate Texts In Mathematics User Reviews and Ratings
 - Riemann Surfaces Graduate Texts In Mathematics and Bestseller Lists
- 5. Accessing Riemann Surfaces Graduate Texts In Mathematics Free and Paid eBooks

- Riemann Surfaces Graduate Texts In Mathematics Public Domain eBooks
- Riemann Surfaces Graduate Texts In Mathematics eBook Subscription Services
- Riemann Surfaces Graduate Texts In Mathematics Budget-Friendly Options
- 6. Navigating Riemann Surfaces Graduate Texts In Mathematics eBook Formats
 - o ePub, PDF, MOBI, and More
 - Riemann Surfaces Graduate Texts In Mathematics Compatibility with Devices
 - Riemann Surfaces Graduate Texts In Mathematics Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Riemann Surfaces Graduate Texts In Mathematics
 - Highlighting and Note-Taking Riemann Surfaces Graduate Texts In Mathematics
 - Interactive Elements Riemann Surfaces Graduate Texts In Mathematics
- 8. Staying Engaged with Riemann Surfaces Graduate Texts In Mathematics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Riemann Surfaces Graduate Texts In Mathematics
- 9. Balancing eBooks and Physical Books Riemann Surfaces Graduate Texts In Mathematics
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Riemann Surfaces Graduate Texts In Mathematics
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Riemann Surfaces Graduate Texts In Mathematics
 - Setting Reading Goals Riemann Surfaces Graduate Texts In Mathematics
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Riemann Surfaces Graduate Texts In Mathematics
 - Fact-Checking eBook Content of Riemann Surfaces Graduate Texts In Mathematics
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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