Riemann Surfaces

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Riemann Surfaces Graduate Texts In Mathematics

Wilhelm Schlag

Riemann Surfaces Graduate Texts In Mathematics:

<u>Riemann Surfaces</u> 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,2011-03-25 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 *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 *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 **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 **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

   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 Die Homologie der Modulräume berandeter Riemannscher Flächen von kleinem Geschlecht Ralf Ehrenfried,1998 **Topics in the Theory of Riemann Surfaces** Robert D.M. Accola,2006-11-14 The book s main concern is automorphisms of Riemann surfaces giving a foundational treatment from the point of view of Galois coverings and treating the problem of the largest automorphism group for a Riemann surface of a given genus In addition the extent to which fixed points of automorphisms are generalized Weierstrass points is considered The extremely useful inequality of Castelnuovo Severi is also treated While the methods are elementary much of the material does not appear in the current texts on Riemann surfaces algebraic curves The book is accessible to a reader who has had an introductory course on the theory of Riemann surfaces or algebraic curves

   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 Painlev 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 *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 **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 hyperk hler 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

Riemann Surfaces Alan Beardon,2008-03 This textbook aimed at advanced undergraduate or beginning graduate students in mathematics introduces both the theory of Riemann surfaces and of analytic functions between Riemann surfaces The first half of the book describes the basic theory the second half develops the theory of harmonic and subharmonic functions on a Riemann surface and culminates with a detailed proof of the famous Uniformisation Theorem and some of its

applications to Riemann surface theory The book is a major revision of the author s earlier Primer with new chapters and more exercises and examples **Moduli Spaces of Riemann Surfaces** Benson Farb,Richard Hain,Eduard Looijenga,2013-08-16 Mapping class groups and moduli spaces of Riemann surfaces were the topics of the Graduate Summer School at the 2011 IAS Park City Mathematics Institute This book presents the nine different lecture series comprising the summer school covering a selection of topics of current interest The introductory courses treat mapping class groups and Teichm ller theory The more advanced courses cover intersection theory on moduli spaces the dynamics of polygonal billiards and moduli spaces the stable cohomology of mapping class groups the structure of Torelli groups and arithmetic mapping class groups The courses consist of a set of intensive short lectures offered by leaders in the field designed to introduce students to exciting current research in mathematics These lectures do not duplicate standard courses available elsewhere The book should be a valuable resource for graduate students and researchers interested in the topology geometry and dynamics of moduli spaces of Riemann surfaces and related topics Titles in this series are co published with the Institute for Advanced Study Park City Mathematics Institute Members of the Mathematical Association of America MAA and the National Council of Teachers of Mathematics NCTM receive a 20% discount from list price Computational Approach to Riemann Surfaces Alexander I. Bobenko,2011-02-12 This volume offers a well structured overview of existent computational approaches to Riemann surfaces and those currently in development The authors of the contributions represent the groups providing publically available numerical codes in this field Thus this volume illustrates which software tools are available and how they can be used in practice In addition examples for solutions to partial differential equations and in surface theory are presented The intended audience of this book is twofold It can be used as a textbook for a graduate course in numerics of Riemann surfaces in which case the standard undergraduate background i e calculus and linear algebra is required In particular no knowledge of the theory of Riemann surfaces is expected the necessary background in this theory is contained in the Introduction chapter At the same time this book is also intended for specialists in geometry and mathematical physics applying the theory of Riemann surfaces in their research It is the first book on numerics of Riemann surfaces that reflects the progress made in this field during the last decade and it contains original results There are a growing number of applications that involve the evaluation of concrete characteristics of models analytically described in terms of Riemann surfaces Many problem settings and computations in this volume are motivated by such concrete applications in geometry and mathematical physics Bonner mathematische Schriften ,1998 *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 **Lectures on Reimann Surfaces** Otto Forster,Bruce Gilligan,1981-11-02 **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 Teichm ller 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 Teichm ller theory mapping class groups geometric group theory and statistical mechanics

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