

Riemann Surfaces

S. K. Donaldson

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Riemann Surfaces Graduate Texts In Mathematics

N.J. Hitchin, G. B. Segal, R.S. Ward

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 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 Riemann Surfaces Hershel M. Farkas, Irwin Kra, 1991-12-23 This text covers Riemann surface theory from Lemma 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 Iacobi 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 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 **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 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 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 Integrable Systems N.J. Hitchin, G. B. Segal, R.S. Ward, 2013-03-14 Designed

to give graduate students an understanding of integrable systems via the study of Riemann surfaces loop groups and twistors this book has its origins in a lecture series given by the internationally renowned authors Written in an accessible informal style it fills a gap in the existing literature

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