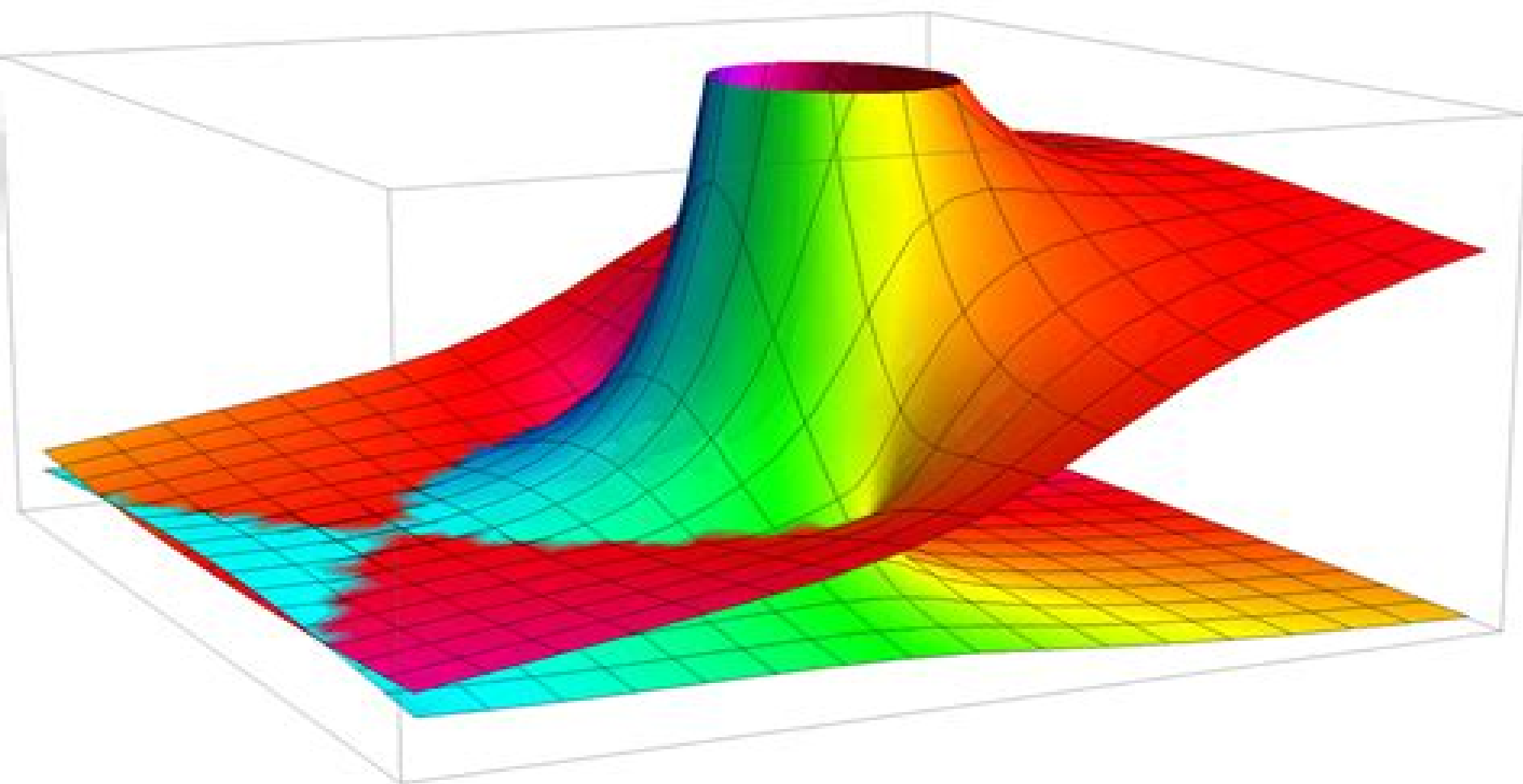




Riemann Surfaces

**Emilio Bujalance García, A. F. Costa, E.
Martínez**



Riemann Surfaces:

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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. *Compact Riemann Surfaces* Jürgen Jost, 2013-03-09

Although Riemann surfaces are a time-honoured field, this book is novel in its broad perspective that systematically explores the connection with other fields of mathematics. It can serve as an introduction to contemporary mathematics as a whole, as it develops background material from algebraic topology, differential geometry, the calculus of variations, elliptic PDE, and algebraic geometry. It is unique among textbooks on Riemann surfaces in including an introduction to Teichmüller theory. The analytic approach is likewise new, as it is based on the theory of harmonic maps. For this new edition, the author has expanded and rewritten several sections to include additional material and to improve the presentation. Classification Theory of Riemann Surfaces Leo Sario, Mitsuru Nakai, 2012-12-06

The purpose of the present monograph is to systematically develop a classification theory of Riemann surfaces. Some first steps will also be taken toward a classification of Riemannian spaces. Four phases can be distinguished in the chronological background: the type problem, general classification, compactifications, and extension to higher dimensions. The type problem evolved in the following, somewhat overlapping steps: the Riemann mapping theorem, the classical type problem, and the existence of Green's functions. The Riemann mapping theorem laid the foundation to classification theory; there are only two conformal equivalence classes of noncompact simply connected regions. Over half a century of efforts by leading mathematicians went into giving a rigorous proof of the theorem: RIEMANN, WEIERSTRASS, SCHWARZ, NEUMANN, POINCARÉ, HILBERT, WEYL, COURANT, OSGOOD, KOEBE, CARATHÉODORY, MONTELEONE. The classical type problem was to determine whether a given simply connected covering surface of the plane is conformally equivalent to the plane or the disk. The problem was in the center of interest in the thirties and early forties, with AHLFORS, KAKUTANI, KOBAYASHI, P. MYRBERG, NEVANLINNA, SPEISER, TEICHMÜLLER, and others obtaining incisive specific results. The main problem of finding necessary and sufficient conditions remains, however, unsolved. Conformal Mapping on Riemann Surfaces Harvey Cohn, 2014-05-05

Lucid, insightful exploration reviews complex analysis, introduces Riemann manifold, shows how to define real functions on manifolds, and more. Perfect for classroom use or independent study. 344 exercises. 1967 edition. Compact Riemann Surfaces and Algebraic Curves Kichoon Yang, 1988. This volume is an introduction to the theory of Compact Riemann Surfaces and algebraic curves. It gives a concise account of the elementary

aspects of different viewpoints in curve theory Foundational results on divisors and compact Riemann surfaces are also stated and proved *Compact Riemann Surfaces* Jürgen Jost, 2013-04-17 Although Riemann surfaces are a time honoured field this book is novel in its broad perspective that systematically explores the connection with other fields of mathematics It can serve as an introduction to contemporary mathematics as a whole as it develops background material from algebraic topology differential geometry the calculus of variations elliptic PDE and algebraic geometry It is unique among textbooks on Riemann surfaces in including an introduction to Teichmüller theory The analytic approach is likewise new as it is based on the theory of harmonic maps *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

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