

Riemann Surfaces And Related Topics

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Automorphisms of Riemann Surfaces, Subgroups of Mapping Class Groups and Related Topics Aaron Wootton, S. Allen Broughton, Jennifer Paulhus, 2022-02-03 Automorphism groups of Riemann surfaces have been widely studied for almost 150 years This area has persisted in part because it has close ties to many other topics of interest such as number theory graph theory mapping class groups and geometric and computational group theory. In recent years there has been a major revival in this area due in part to great advances in computer algebra systems and progress in finite group theory This volume provides a concise but thorough introduction for newcomers to the area while at the same time highlighting new developments for established researchers. The volume starts with two expository articles. The first of these articles gives a historical perspective of the field with an emphasis on highly symmetric surfaces such as Hurwitz surfaces The second expository article focuses on the future of the field outlining some of the more popular topics in recent years and providing 78 open research problems across all topics The remaining articles showcase new developments in the area and have specifically been chosen to cover a variety of topics to illustrate the range of diversity within the field Riemann **Surfaces and Related Topics** Irwin Kra, Bernard Maskit, 1981 Riemann Surfaces and Related Topics National Science Foundation, State University of New York, **Problems on Mapping Class Groups and Related Topics** Benson Farb, 2006-09-12 The appearance of mapping class groups in mathematics is ubiquitous. The book presents 23 papers containing problems about mapping class groups the moduli space of Riemann surfaces Teichmuller geometry and related areas Each paper focusses completely on open problems and directions The problems range in scope from specific computations to broad programs The goal is to have a rich source of problems which have been formulated explicitly and accessibly The book is divided into four parts Part I contains problems on the combinatorial and co homological group theoretic aspects of mapping class groups and the way in which these relate to problems in geometry and topology Part II concentrates on connections with classification problems in 3 manifold theory the theory of symplectic 4 manifolds and

algebraic geometry A wide variety of problems from understanding billiard trajectories to the classification of Kleinian groups can be reduced to differential and synthetic geometry problems about moduli space Such problems and connections are discussed in Part III Mapping class groups are related both concretely and philosophically to a number of other groups such as braid groups lattices in semisimple Lie groups and automorphism groups of free groups Part IV concentrates on problems surrounding these relationships This book should be of interest to anyone studying geometry topology algebraic geometry or infinite groups It is meant to provide inspiration for everyone from graduate students to senior researchers

Interpolation Theory, Systems Theory and Related Topics Daniel Alpay, Israel Gohberg, Victor Vinnikov, 2012-12-06 This volume is dedicated to Harry Dym a leading expert in operator theory on the occasion of his sixtieth birthday The book opens with an autobiographical sketch a list of publications and a personal account of I Gohberg on his collaboration with Harry Dym The mathematical papers cover Krein space operator theory Schur analysis and interpolation several complex variables and Riemann surfaces matrix theory system theory and differential equations and mathematical physics The book is of interest to a wide audience of pure and applied mathematicians electrical engineers and theoretical physicists Equations and Related Topics Alexander D. Bruno, Alexander B. Batkhin, 2012-08-31 This is a proceedings of the international conference Painlev Equations and Related Topics which was taking place at the Euler International Mathematical Institute a branch of the Saint Petersburg Department of the Steklov Institute of Mathematics of the Russian Academy of Sciences in Saint Petersburg on June 17 to 23 2011 The survey articles discuss the following topics General ordinary differential equations Painlev equations and their generalizations Painlev property Discrete Painlev equations Properties of solutions of all mentioned above equations Asymptotic forms and asymptotic expansions Connections of asymptotic forms of a solution near different points Convergency and asymptotic character of a formal solution New types of asymptotic forms and asymptotic expansions Riemann Hilbert problems Isomonodromic deformations of linear systems Symmetries and transformations of solutions Algebraic solutions Reductions of PDE to Painlev equations and their generalizations Ordinary Differential Equations systems equivalent to Painlev equations and their generalizations Applications of the equations and the **Topics in the Theory of Riemann Surfaces** Robert D.M. Accola, 2006-11-14 The book s main concern is solutions 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 Handbook of Teichmüller Theory Athanase Papadopoulos, 2007 This multi volume set deals with Teichmuller theory in the broadest sense namely as the study of moduli space of geometric structures on

surfaces with methods inspired or adapted from those of classical Teichmuller theory. The aim is to give a complete panorama of this generalized Teichmuller theory and of its applications in various fields of mathematics The volumes consist of chapters each of which is dedicated to a specific topic The volume has 19 chapters and is divided into four parts The metric and the analytic theory uniformization Weil Petersson geometry holomorphic families of Riemann surfaces infinite dimensional Teichmuller spaces cohomology of moduli space and the intersection theory of moduli space The group theory quasi homomorphisms of mapping class groups measurable rigidity of mapping class groups applications to Lefschetz fibrations affine groups of flat surfaces braid groups and Artin groups Representation spaces and geometric structures trace coordinates invariant theory complex projective structures circle packings and moduli spaces of Lorentz manifolds homeomorphic to the product of a surface with the real line The Grothendieck Teichmuller theory dessins d enfants Grothendieck's reconstruction principle and the Teichmuller theory of the solenoid This handbook is an essential reference for graduate students and researchers interested in Teichmuller theory and its ramifications in particular for mathematicians working in topology geometry algebraic geometry dynamical systems and complex analysis The authors are leading experts Handbook of Complex Analysis Reiner Kuhnau, 2004-12-09 Geometric Function Theory is that part of in the field Complex Analysis which covers the theory of conformal and quasiconformal mappings Beginning with the classical Riemann mapping theorem there is a lot of existence theorems for canonical conformal mappings On the other side there is an extensive theory of qualitative properties of conformal and quasiconformal mappings concerning mainly a prior estimates so called distortion theorems including the Bieberbach conjecture with the proof of the Branges Here a starting point was the classical Scharz lemma and then Koebe s distortion theorem There are several connections to mathematical physics because of the relations to potential theory in the plane The Handbook of Geometric Function Theory contains also an article about constructive methods and further a Bibliography including applications eg to electroxtatic problems heat conduction potential flows in the plane A collection of independent survey articles in the field of GeometricFunction Theory Existence theorems and qualitative properties of conformal and quasiconformal mappings A bibliography including many hints to applications in electrostatics heat conduction potential flows in the plane Geometry of Group Representations William Mark Goldman, Andy R. Magid, American Mathematical Society, 1988 Contains papers based on talks delivered at the AMS IMS SIAM Summer Research Conference on the Geometry of Group Representations held at the University of Colorado in Boulder in July 1987 This work offers an understanding of the state of research in the geometry of group representations and **Hyperbolic Manifolds** Albert Marden, 2016-02 This study of hyperbolic geometry has both pedagogy their applications and research in mind and includes exercises and further reading for each chapter Selected Works of Lipman Bers Lipman Bers,1998 Geometry in History S. G. Dani, Athanase Papadopoulos, 2019-10-18 This is a collection of surveys on important mathematical ideas their origin their evolution and their impact in current research The authors are mathematicians who are

leading experts in their fields The book is addressed to all mathematicians from undergraduate students to senior researchers regardless of the specialty Lie Algebras, Vertex Operator Algebras, and Related Topics Katrina Barron, Elizabeth Jurisich, Antun Milas, Kailash Misr, 2017-08-15 This volume contains the proceedings of the conference on Lie Algebras Vertex Operator Algebras and Related Topics celebrating the 70th birthday of James Lepowsky and Robert Wilson held from August 14 18 2015 at the University of Notre Dame Notre Dame Indiana Since their seminal work in the 1970s Lepowsky and Wilson their collaborators their students and those inspired by their work have developed an amazing body of work intertwining the fields of Lie algebras vertex algebras number theory theoretical physics quantum groups the representation theory of finite simple groups and more The papers presented here include recent results and descriptions of ongoing research initiatives representing the broad influence and deep connections brought about by the work of Lepowsky and Wilson and include a contribution by Yi Zhi Huang summarizing some major open problems in these areas in particular as they pertain to two dimensional conformal field theory Splitting Deformations of Degenerations of Complex Curves Shigeru Takamura, 2006-07-26 The author develops a deformation theory for degenerations of complex curves specifically he treats deformations which induce splittings of the singular fiber of a degeneration He constructs a deformation of the degeneration in such a way that a subdivisor is barked peeled off from the singular fiber These barking deformations are related to deformations of surface singularities in particular cyclic quotient singularities as well as the mapping class groups of Riemann surfaces complex curves via monodromies Important applications such as the classification of atomic degenerations are also explained Discrete Groups in Space and Uniformization Problems B. Apanasov, 1991-06-30 A revised and substantially enlarged edition of the Russian book Discrete transformation groups and manifold structures published by Nauka in 1983 this volume presents a comprehensive treatment of the geometric theory of discrete groups and the associated tessellations of the underlying space Also dealt with in depth are geometric and conformal structures on manifolds with particular emphasis on hyperbolic n dimensional manifolds A detailed account of the geometric and analytic properties of geometrically finite Mobius groups in n dimensional space is given and this forms the basis of the subsequent analysis Emphasis is placed on the geometrical aspects and on the universal constraints which must be satisfied by all tessellations and structures on manifolds Annotation copyrighted by Book News Inc Portland OR

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