



Hyperbolic Manifolds And Kleinian Groups

Boris N. Apanasov



Hyperbolic Manifolds And Kleinian Groups:

Hyperbolic Manifolds and Kleinian Groups Katsuhiko Matsuzaki, Masahiko Taniguchi, 1998-04-30 A Kleinian group is a discrete subgroup of the isometry group of hyperbolic 3 space which is also regarded as a subgroup of Möbius transformations in the complex plane The present book is a comprehensive guide to theories of Kleinian groups from the viewpoints of hyperbolic geometry and complex analysis After 1960 Ahlfors and Bers were the leading researchers of Kleinian groups and helped it to become an active area of complex analysis as a branch of Teichmüller theory Later Thurston brought a revolution to this area with his profound investigation of hyperbolic manifolds and at the same time complex dynamical approach was strongly developed by Sullivan This book provides fundamental results and important theorems which are needed for access to the frontiers of the theory from a modern viewpoint

Hyperbolic Manifolds and Kleinian Groups Katsuhiko Matsuzaki, Masahiko Taniguchi, 2023 This is a comprehensive guide to the theory of Kleinian groups from the viewpoints of geometry and analysis The book provides fundamental results and important theorems which are needed for access to the frontiers of the theory from a modern viewpoint

The Arithmetic of Hyperbolic 3-Manifolds Colin MacLachlan, Alan W. Reid, 2014-01-15

Hyperbolic Manifolds and Discrete Groups Michael Kapovich, 2001 Hyperbolic Manifolds and Discrete Groups is at the crossroads of several branches of mathematics hyperbolic geometry discrete groups 3 dimensional topology geometric group theory and complex analysis The main focus throughout the text is on the Big Monster i.e. on Thurston's hyperbolization theorem which has not only completely changes the landscape of 3 dimensional topology and Kleinian group theory but is one of the central results of 3 dimensional topology The book is fairly self contained replete with beautiful illustrations a rich set of examples of key concepts numerous exercises and an extensive bibliography and index It should serve as an ideal graduate course seminar text or as a comprehensive reference

Spaces of Kleinian Groups Yair N. Minsky, Makoto Sakuma, Caroline Series, 2006-06-19 The subject of Kleinian groups and hyperbolic 3 manifolds is currently undergoing explosively fast development the last few years having seen the resolution of many longstanding conjectures This volume contains important expositions and original work by some of the main contributors on topics such as topology and geometry of 3 manifolds curve complexes classical Ahlfors Bers theory computer explorations and projective structures Researchers in these and related areas will find much of interest here

Discrete Groups Ken'ichi Ōshika, Ken'ichi Ōshika, 2002 Ohshika provides a concise introduction to the study of infinite groups as geometric objects The main topics addressed are the theory of hyperbolic groups in the sense of Gromov Epstein's automatic group theory and Kleinian group theory Coverage extends to the interactions between these theories and their relations to low dimensional topology Ohshika developed the text while teaching graduate courses at three Japanese universities The text has been translated from the Japanese by the author c Book News Inc

Foundations of Hyperbolic Manifolds John Ratcliffe, 2013-03-09 This book is an exposition of the theoretical foundations of hyperbolic manifolds It is intended to be used

both as a textbook and as a reference Particular emphasis has been placed on readability and completeness of argument The treatment of the material is for the most part elementary and self contained The reader is assumed to have a basic knowledge of algebra and topology at the first year graduate level of an American university The book is divided into three parts The first part consisting of Chapters 1-7 is concerned with hyperbolic geometry and basic properties of discrete groups of isometries of hyperbolic space The main results are the existence theorem for discrete reflection groups the Bieberbach theorems and Selberg's lemma The second part consisting of Chapters 8-12 is devoted to the theory of hyperbolic manifolds The main results are Mostow's rigidity theorem and the determination of the structure of geometrically finite hyperbolic manifolds The third part consisting of Chapter 13 integrates the first two parts in a development of the theory of hyperbolic orbifolds The main results are the construction of the universal orbifold covering space and Poincaré's fundamental polyhedron theorem

Conformal Geometry of Discrete Groups and Manifolds

Boris N. Apanasov, 2011-06-24 The aim of the Expositions is to present new and important developments in pure and applied mathematics Well established in the community over more than two decades the series offers a large library of mathematical works including several important classics The volumes supply thorough and detailed expositions of the methods and ideas essential to the topics in question In addition they convey their relationships to other parts of mathematics The series is addressed to advanced readers interested in a thorough study of the subject Editorial Board Lev Birbrair Universidade Federal do Cear Fortaleza Brasil Walter D Neumann Columbia University New York USA Markus J Pflaum University of Colorado Boulder USA Dierk Schleicher Jacobs University Bremen Germany Katrin Wendland University of Freiburg Germany Honorary Editor Victor P Maslov Russian Academy of Sciences Moscow Russia Titles in planning include Yuri A Bahturin Identical Relations in Lie Algebras 2019 Yakov G Berkovich Lev G Kazarin and Emmanuel M Zhmud Characters of Finite Groups Volume 2 2019 Jorge Herbert Soares de Lira Variational Problems for Hypersurfaces in Riemannian Manifolds 2019 Volker Mayer Mariusz Urbański and Anna Zdunik Random and Conformal Dynamical Systems 2021 Ioannis Diamantis Bo tján Gabrov ek Sofia Lambropoulou and Maciej Mroczkowski Knot Theory of Lens Spaces 2021

Fundamentals of Hyperbolic Manifolds R. D. Canary, A. Marden, D. B. A. Epstein, 2006-04-13 Presents reissued articles from two classic sources on hyperbolic manifolds Part I is an exposition of Chapters 8 and 9 of Thurston's pioneering Princeton Notes there is a new introduction describing recent advances with an up to date bibliography giving a contemporary context in which the work can be set Part II expounds the theory of convex hull boundaries and their bending laminations A new appendix describes recent work Part III is Thurston's famous paper that presents the notion of earthquakes in hyperbolic geometry and proves the earthquake theorem The final part introduces the theory of measures on the limit set drawing attention to related ergodic theory and the exponent of convergence The book will be welcomed by graduate students and professional mathematicians who want a rigorous introduction to some basic tools essential for the modern theory of hyperbolic manifolds

Convergence of Kleinian Groups Gero Kleineidam, 2002

Kleinian Groups and Hyperbolic 3-Manifolds Y. Komori, V. Markovic, C. Series, 2003-11-10 The subject of Kleinian groups and hyperbolic 3 manifolds is currently undergoing explosively fast development with many old problems and conjectures close to resolution This volume proceedings of the Warwick workshop in September 2001 contains expositions of many of these breakthroughs including Minsky's lectures on the first half of the proof of the Ending Lamination Conjecture the Bers Density Conjecture by Brock and Bromberg the Tameness Conjecture by Kleiner and Souto the state of the art in cone manifolds by Hodgson and Kerckhoff and the counter example to Thurston's K 2 conjecture by Epstein Marden and Markovic It also contains Jørgensen's famous paper On pairs of once punctured tori in print for the first time The excellent collection of papers here will appeal to graduate students who will find much here to inspire them and established researchers who will find this valuable as a snapshot of current research

2021-2022 MATRIX Annals David R. Wood, Jan de Gier, Cheryl E. Praeger, 2024-06-01 MATRIX is Australia's international and residential mathematical research institute It facilitates new collaborations and mathematical advances through intensive residential research programs each 1-2 weeks in duration This book is a scientific record of the 24 programs held at MATRIX in 2021-2022 including tandem workshops with Mathematisches Forschungsinstitut Oberwolfach MFO with Research Institute for Mathematical Sciences Kyoto University RIMS and with Sydney Mathematical Research Institute SMRI

Kleinian Groups and Uniformization in Examples and Problems Samuil Lebovich Krushkal, Boris Nikolaevich Apanasov, Nikola Aleksandrovich Gusevski, 1986-12-31 Aimed at researchers graduate students and undergraduates alike this book presents a unified exposition of all the main areas and methods of the theory of Kleinian groups and the theory of uniformization of manifolds The past 20 years have seen a rejuvenation of the field due to the development of powerful new methods in topology the theory of functions of several complex variables and the theory of quasiconformal mappings Thus this new book should provide a valuable resource listing the basic facts regarding Kleinian groups and serving as a general guide to the primary literature particularly the Russian literature in the field In addition the book includes a large number of examples problems and unsolved problems many of them presented for the first time

Selected Papers on Classical Analysis 〓〓〓〓, 2001 Six papers that originally appeared in the journal Sugaku in Japanese explore the general area of mathematical analysis as it pertains to free probability based on operator algebras They cover the free products of operator algebras and free probability theory the dynamics of Kleinian groups and the Hausdorff dimension of limit sets topological methods in the stability analysis of travelling waves an extension of almost periodic functions and analyticity on flows Painlevé equations in the past century and the Navier Stokes equation in various function spaces They are not indexed c Book News Inc

Geometry and Dynamics of Groups and Spaces Mikhail Kapranov, Sergii Kolyada, Yu. I. Manin, Pieter Moree, Leonid Potyagailo, 2008-03-05 Alexander Reznikov 1960-2003 was a brilliant and highly original mathematician This book presents 18 articles by prominent mathematicians and is dedicated to his memory In addition it contains an influential so far unpublished manuscript by Reznikov of book length The book further

provides an extensive survey on Kleinian groups in higher dimensions and some articles centering on Reznikov as a person

Collected Works of William P. Thurston with Commentary Benson Farb, David Gabai, Steven P. Kerckhoff, 2023-06-02

William Thurston's work has had a profound influence on mathematics. He connected whole mathematical subjects in entirely new ways and changed the way mathematicians think about geometry, topology, foliations, group theory, dynamical systems, and the way these areas interact. His emphasis on understanding and imagination in mathematical learning and thinking are integral elements of his distinctive legacy. This four-part collection brings together in one place Thurston's major writings, many of which are appearing in publication for the first time. Volumes I-III contain commentaries by the Editors. Volume IV includes a preface by Steven P. Kerckhoff. Volume II contains William Thurston's papers on the geometry and topology of 3-manifolds, on complexity, constructions and computers, and on geometric group theory. *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 Möbius 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.

The Mathematical Heritage of Henri Poincaré Felix E. Browder, 1983. On April 7-10, 1980, the American Mathematical Society sponsored a Symposium on the Mathematical Heritage of Henri Poincaré held at Indiana University, Bloomington, Indiana. This title presents the written versions of this Symposium. It contains two papers by invited speakers who were not able to attend: S. S. Chern and L. Nirenberg. *In the Tradition of Thurston* Ken'ichi Ohshika, Athanase

Papadopoulos, 2020-12-07. This book consists of 16 surveys on Thurston's work and its later development. The authors are mathematicians who were strongly influenced by Thurston's publications and ideas. The subjects discussed include, among others, knot theory, the topology of 3-manifolds, circle packings, complex projective structures, hyperbolic geometry, Kleinian groups, foliations, mapping class groups, Teichmüller theory, anti-de Sitter geometry, and co-Minkowski geometry. The book is addressed to researchers and students who want to learn about Thurston's wide-ranging mathematical ideas and their impact. At the same time, it is a tribute to Thurston, one of the greatest geometers of all time, whose work extended over many fields in mathematics and who had a unique way of perceiving forms and patterns and of communicating and writing mathematics.

Topology And Teichmüller Spaces - Proceedings Of The 37th Taniguchi Symposium Sadayoshi Kojima, Kyoji

Saito, Y. Matsumoto, Mika Seppälä, 1996-11-09. This proceedings is a collection of articles on Topology and Teichmüller Spaces. Special emphasis is being put on the universal Teichmüller space, the topology of moduli of algebraic curves, the space of

representations of discrete groups Kleinian groups and Dehn filling deformations the geometry of Riemann surfaces and some related topics

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Table of Contents Hyperbolic Manifolds And Kleinian Groups

1. Understanding the eBook Hyperbolic Manifolds And Kleinian Groups
 - The Rise of Digital Reading Hyperbolic Manifolds And Kleinian Groups
 - Advantages of eBooks Over Traditional Books
2. Identifying Hyperbolic Manifolds And Kleinian Groups
 - 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 Hyperbolic Manifolds And Kleinian Groups
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hyperbolic Manifolds And Kleinian Groups
 - Personalized Recommendations
 - Hyperbolic Manifolds And Kleinian Groups User Reviews and Ratings
 - Hyperbolic Manifolds And Kleinian Groups and Bestseller Lists
5. Accessing Hyperbolic Manifolds And Kleinian Groups Free and Paid eBooks

- Hyperbolic Manifolds And Kleinian Groups Public Domain eBooks
- Hyperbolic Manifolds And Kleinian Groups eBook Subscription Services
- Hyperbolic Manifolds And Kleinian Groups Budget-Friendly Options
- 6. Navigating Hyperbolic Manifolds And Kleinian Groups eBook Formats
 - ePub, PDF, MOBI, and More
 - Hyperbolic Manifolds And Kleinian Groups Compatibility with Devices
 - Hyperbolic Manifolds And Kleinian Groups Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hyperbolic Manifolds And Kleinian Groups
 - Highlighting and Note-Taking Hyperbolic Manifolds And Kleinian Groups
 - Interactive Elements Hyperbolic Manifolds And Kleinian Groups
- 8. Staying Engaged with Hyperbolic Manifolds And Kleinian Groups
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hyperbolic Manifolds And Kleinian Groups
- 9. Balancing eBooks and Physical Books Hyperbolic Manifolds And Kleinian Groups
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hyperbolic Manifolds And Kleinian Groups
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Hyperbolic Manifolds And Kleinian Groups
 - Setting Reading Goals Hyperbolic Manifolds And Kleinian Groups
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hyperbolic Manifolds And Kleinian Groups
 - Fact-Checking eBook Content of Hyperbolic Manifolds And Kleinian Groups
 - 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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