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Volume 49

# Low-Dimensional Geometry

From Euclidean  
Surfaces to  
Hyperbolic Knots

Francis Bonahon



American Mathematical Society  
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# Low Dimensional Geometry Student Mathematical Library Iasparc City Mathematical Subseries

**Francis Bonahon**



## **Low Dimensional Geometry Student Mathematical Library Iasparc City Mathematical Subseries:**

**Low-Dimensional Geometry** Francis Bonahon, 2009-07-14 The study of 3 dimensional spaces brings together elements from several areas of mathematics The most notable are topology and geometry but elements of number theory and analysis also make appearances In the past 30 years there have been striking developments in the mathematics of 3 dimensional manifolds This book aims to introduce undergraduate students to some of these important developments Low Dimensional Geometry starts at a relatively elementary level and its early chapters can be used as a brief introduction to hyperbolic geometry However the ultimate goal is to describe the very recently completed geometrization program for 3 dimensional manifolds The journey to reach this goal emphasizes examples and concrete constructions as an introduction to more general statements This includes the tessellations associated to the process of gluing together the sides of a polygon Bending some of these tessellations provides a natural introduction to 3 dimensional hyperbolic geometry and to the theory of kleinian groups and it eventually leads to a discussion of the geometrization theorems for knot complements and 3 dimensional manifolds This book is illustrated with many pictures as the author intended to share his own enthusiasm for the beauty of some of the mathematical objects involved However it also emphasizes mathematical rigor and with the exception of the most recent research breakthroughs its constructions and statements are carefully justified Geometry, Topology And Dynamics Of

Character Varieties William Goldman, Caroline Series, Ser Peow Tan, 2012-06-18 This volume is based on lectures given at the highly successful three week Summer School on Geometry Topology and Dynamics of Character Varieties held at the National University of Singapore s Institute for Mathematical Sciences in July 2010 Aimed at graduate students in the early stages of research the edited and refereed articles comprise an excellent introduction to the subject of the program much of which is otherwise available only in specialized texts Topics include hyperbolic structures on surfaces and their degenerations applications of ping pong lemmas in various contexts introductions to Lorenzian and complex hyperbolic geometry and representation varieties of surface groups into  $PSL(2, \mathbb{C})$  and other semi simple Lie groups This volume will serve as a useful portal to students and researchers in a vibrant and multi faceted area of mathematics **Hyperbolic Knot**

**Theory** Jessica S. Purcell, 2020-10-06 This book provides an introduction to hyperbolic geometry in dimension three with motivation and applications arising from knot theory Hyperbolic geometry was first used as a tool to study knots by Riley and then Thurston in the 1970s By the 1980s combining work of Mostow and Prasad with Gordon and Luecke it was known that a hyperbolic structure on a knot complement in the 3 sphere gives a complete knot invariant However it remains a difficult problem to relate the hyperbolic geometry of a knot to other invariants arising from knot theory In particular it is difficult to determine hyperbolic geometric information from a knot diagram which is classically used to describe a knot This textbook provides background on these problems and tools to determine hyperbolic information on knots It also includes results and state of the art techniques on hyperbolic geometry and knot theory to date The book was written to be interactive with many

examples and exercises Some important results are left to guided exercises The level is appropriate for graduate students with a basic background in algebraic topology particularly fundamental groups and covering spaces Some experience with some differential topology and Riemannian geometry will also be helpful

**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](https://www.springer.com)

**Mathematical Reviews**, 2007 *Low-dimensional Geometry* Francis Bonahon, **Geometry in Problems** Alexander Shen, 2016 Classical Euclidean geometry with all its triangles circles and inscribed angles remains an excellent playground for high school mathematics students even if it looks outdated from the professional mathematician's viewpoint It provides an excellent choice of elegant and natural problems that can be used in a course based on problem solving The book contains more than 750 mostly easy but nontrivial problems in all areas of plane

geometry and solutions for most of them as well as additional problems for self study some with hints Each chapter also provides concise reminders of basic notions used in the chapter so the book is almost self contained although a good textbook and competent teacher are always recommended More than 450 figures illustrate the problems and their solutions The book can be used by motivated high school students as well as their teachers and parents After solving the problems in the book the student will have mastered the main notions and methods of plane geometry and hopefully will have had fun in the process In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life MSRI and the AMS are publishing books in the Mathematical Circles Library series as a service to young people their parents and teachers and the mathematics profession What a joy Shen's Geometry in Problems is a gift to the school teaching world Beautifully organized by content topic Shen has collated a vast collection of fresh innovative and highly classroom relevant questions problems and challenges sure to enliven the minds and clever thinking of all those studying Euclidean geometry for the first time This book is a spectacular resource for educators and students alike Users will not only sharpen their mathematical understanding of specific topics but will also sharpen their problem solving wits and come to truly own the mathematics explored Also Math Circle leaders can draw much inspiration for session ideas from the material presented in this book James Tanton Mathematician at Large Mathematical Association of America We learn mathematics best by doing mathematics The author of this book recognizes this principle He invites the reader to participate in learning plane geometry through carefully chosen problems with brief explanations leading to much activity The problems in the book are sometimes deep and subtle almost everyone can do some of them and almost no one can do all The reader comes away with a view of geometry refreshed by experience Mark Saul Director of Competitions Mathematical Association of America     Geometry Student Text Math-U-See, Steven P. Demme, Miriam Homer, 2009-01-01     Geometry Part 1 (Speedy Study Guides) Speedy Publishing, 2015-05-25 Simply put geometry is known as the study of shapes But if you dig deeper into the concept you will find that it's actually more than that This quick study guide provides an in dept analysis of this mathematical concept It was written with the intent to remind you of the basics in order to smoothly transition to the more complex geometric theories Grab a copy now     *Geometry Student Pack* Demme Learning, 2015-07-06     Practical Geometry (Part One) Kwang S. Ko, Alexander H. Ko, 2015-11-01

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In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Low Dimensional Geometry Student Mathematical Library Iaspark City Mathematical Subseries**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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