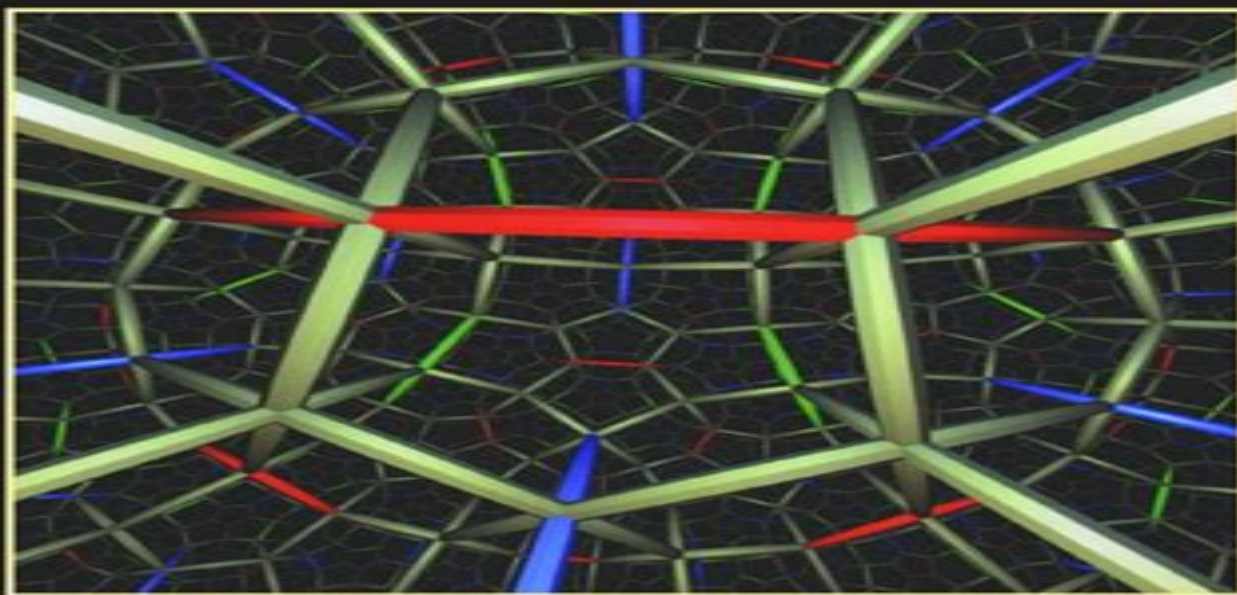# William P. Thurston
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Three-Dimensional Geometry and Topology

VOLUME 1

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A. Marden

Three Dimensional Geometry And Topology Volume 1 Three Dimensional Geometry And Topology Volume 1:
Three-Dimensional Geometry and Topology, Volume 1 William P. Thurston,2014-10-31 This book develops some of the extraordinary richness beauty and power of geometry in two and three dimensions and the strong connection of geometry with topology Hyperbolic geometry is the star A strong effort has been made to convey not just denatured formal reasoning definitions theorems and proofs but a living feeling for the subject There are many figures examples and exercises of varying difficulty This book was the origin of a grand scheme developed by Thurston that is now coming to fruition In the 1920s and 1930s the mathematics of two dimensional spaces was formalized It was Thurston s goal to do the same for three dimensional spaces To do this he had to establish the strong connection of geometry to topology the study of qualitative questions about geometrical structures The author created a new set of concepts and the expression Thurston type geometry has become a commonplace Three Dimensional Geometry and Topology had its origins in the form of notes for a graduate course the author taught at Princeton University between 1978 and 1980 Thurston shared his notes duplicating and sending them to whoever requested them Eventually the mailing list grew to more than one thousand names The book is the culmination of two decades of research and has become the most important and influential text in the field Its content also provided the methods needed to solve one of mathematics oldest unsolved problems the Poincar Conjecture In 2005 Thurston won the first AMS Book Prize for Three dimensional Geometry and Topology The prize recognizes an outstanding research book that makes a seminal contribution to the research literature Thurston received the Fields Medal the mathematical equivalent of the Nobel Prize in 1982 for the depth and originality of his contributions to mathematics In 1979 he was awarded the Alan T Waterman Award which recognizes an outstanding young researcher in any field of science or engineering supported by the National Science Foundation   *Three-dimensional Geometry and Topology* William P. Thurston,1997 Every mathematician should be acquainted with the basic facts about the geometry of surfaces of two dimensional manifolds The theory of three dimensional manifolds is much more difficult and still only partly understood although there is ample evidence that the theory of three dimensional manifolds is one of the most beautiful in the whole of mathematics This excellent introductory work makes this mathematical wonderland remained rather inaccessible to non specialists The author is both a leading researcher with a formidable geometric intuition and a gifted expositor His vivid descriptions of what it might be like to live in this or that three dimensional manifold bring the subject to life Like Poincar he appeals to intuition but his enthusiasm is infectious and should make many converts for this kind of mathematics There are good pictures plenty of exercises and problems and the reader will find a selection of topics which are not found in the standard repertoire This book contains a great deal of interesting mathematics   *Three-dimensional geometry & topology* William P. Thurston,1991   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 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   **Introduction to 3-Manifolds** Jennifer Schultens,2014-05-21 This book grew out of a graduate course on 3 manifolds and is intended for a mathematically experienced audience that is new to low dimensional topology The exposition begins with the definition of a manifold explores possible additional structures on manifolds discusses the classification of surfaces introduces key foundational results for 3 manifolds and provides an overview of knot theory It then continues with more specialized topics by briefly considering triangulations of 3 manifolds normal surface theory and Heegaard splittings The book finishes with a discussion of topics relevant to viewing 3 manifolds via the curve complex With about 250 figures and more than 200 exercises this book can serve as an excellent overview and starting point for the study of 3 manifolds   *A Century in Books* Princeton University Press Staff,2021-10-12 It all began atop a drugstore in Princeton New Jersey in November 1905 From its modest beginnings Princeton University Press was to become one of the world s most important scholarly publishers embracing a wealth of disciplines that have enriched our cultural academic and scientific landscape Both as a tribute to our authors and to celebrate our centenary Princeton University Press here presents A Century in Books This beautifully designed volume highlights 100 of the nearly 8 000 books we have published Necessarily winnowed from a much larger list these books best typify what has been most lasting most defining and most distinctive about our publishing history from Einstein s The Meaning of Relativity 1922 to the numerous mathematical and other works that marked the Press s watershed decade of the 1940s including von Neumann and Morgenstern s Theory of Games and Economic Behavior from milestones of literary criticism by Erich Auerbach and Northop Frye to George Kennan s Pulitzer Prize winning book on Soviet American relations from Milton Friedman and Anna Jacobson Schwartz s A Monetary History of the United States 1867 1960 to more recent landmarks such as L Luca Cavalli Sforza Paolo Menozzi and Alberto Piazza s The History and Geography of Human Genes and Robert Shiller s Irrational Exuberance In addition to succinct descriptions of the 100 titles and a short introduction on the history of the Press the book features five essays by prominent scholars and writers Michael Wood discusses the impact on Princeton University Press of intellectuals who fled Nazi Germany and authored many influential books Anthony Grafton recounts our rich publishing tradition in history politics and culture Sylvia Nasar traces our evolution into a leading voice in economics publishing Daniel Kevles reflects on Einstein a figure of special importance to Princeton And Lord Robert May writes on our long standing tradition of

publishing in mathematics and science A Century in Books is more than a celebration of 100 years of publishing at Princeton University Press it is a treasure trove of 100 years of books that have added to the richness of twentieth century intellectual life   *Ricci Flow and Geometric Applications* Michel Boileau,Gerard Besson,Carlo Sinestrari,Gang Tian,2016-09-09 Presenting some impressive recent achievements in differential geometry and topology this volume focuses on results obtained using techniques based on Ricci flow These ideas are at the core of the study of differentiable manifolds Several very important open problems and conjectures come from this area and the techniques described herein are used to face and solve some of them The book s four chapters are based on lectures given by leading researchers in the field of geometric analysis and low dimensional geometry topology respectively offering an introduction to the differentiable sphere theorem G Besson the geometrization of 3 manifolds M Boileau the singularities of 3 dimensional Ricci flows C Sinestrari and K hler Ricci flow G Tian The lectures will be particularly valuable to young researchers interested in differential manifolds

   Fundamentals of Hyperbolic Manifolds Richard Douglas Canary,Albert 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   **The Shape of Space** Jeffrey R. Weeks,2001-12-12 Maintaining the standard of excellence set by the previous edition this textbook covers the basic geometry of two and three dimensional spaces Written by a master expositor leading researcher in the field and MacArthur Fellow it includes experiments to determine the true shape of the universe and contains illustrated examples and engaging exercises that teach mind expanding ideas in an intuitive and informal way Bridging the gap from geometry to the latest work in observational cosmology the book illustrates the connection between geometry and the behavior of the physical universe and explains how radiation remaining from the big bang may reveal the actual shape of the universe   **Finite Möbius Groups, Minimal Immersions of Spheres, and Moduli** Gabor Toth,2012-12-06 Spherical soap bubbles isometric minimal immersions of round spheres into round spheres or spherical immersions for short belong to a fast growing and fascinating area between algebra and geometry This theory has rich interconnections with a variety of mathematical disciplines such as invariant theory convex geometry harmonic maps and orthogonal multiplications In this book the author traces the development of the study of spherical minimal immersions over the past 30 plus years including Takahashi s 1966 proof regarding the existence of isometric minimal immersions

DoCarmo and Wallach s study of the uniqueness of the standard minimal immersion in the seventies and more recently he examines the variety of spherical minimal immersions which have been obtained by the equivariant construction as SU 2 orbits first used by Mashimo in 1984 and then later by DeTurck and Ziller in 1992 In trying to make this monograph accessible not just to research mathematicians but mathematics graduate students as well the author included sizeable pieces of material from upper level undergraduate courses additional graduate level topics such as Felix Klein s classic treatise of the icosahedron and a valuable selection of exercises at the end of each chapter **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 **Mathematical Foundations of Computer Science 2005** Joanna Jedrzejowicz,2005-08-17 This book constitutes the refereed proceedings of the 30th International Symposium on Mathematical Foundations of Computer Science MFCS 2005 held in Gdansk Poland in August September 2005 The 62 revised full papers presented together with full papers or abstracts of 7 invited talks were carefully reviewed and selected from 137 submissions All current aspects in theoretical computer science are addressed ranging from quantum computing approximation automata circuits scheduling games languages discrete mathematics combinatorial optimization graph theory networking algorithms and complexity to programming theory formal methods and mathematical logic

Seifert Fiberings Kyung Bai Lee,Frank Raymond,2010-11-24 Seifert fiberings extend the notion of fiber bundle mappings by allowing some of the fibers to be singular Away from the singular fibers the fibering is an ordinary bundle with fiber a fixed homogeneous space The singular fibers are quotients of this homogeneous space by distinguished groups of homeomorphisms These fiberings are ubiquitous and important in mathematics This book describes in a unified way their structure how they arise and how they are classified and used in applications Manifolds possessing such fiber structures are discussed and range from the classical three dimensional Seifert manifolds to higher dimensional analogues encompassing for example flat manifolds infra nil manifolds space forms and their moduli spaces The necessary tools not covered in basic

graduate courses are treated in considerable detail These include transformation groups cohomology of groups and needed Lie theory Inclusion of the Bieberbach theorems existence uniqueness and rigidity of Seifert fiberings aspherical manifolds symmetric spaces toral rank of spherical space forms equivariant cohomology polynomial structures on solv manifolds fixed point theory and other examples exercises and applications attest to the breadth of these fiberings This is the first time the scattered literature on singular fiberings is brought together in a unified approach The new methods and tools employed should be valuable to researchers and students interested in geometry and topology   *Abstract Regular Polytopes* Peter McMullen,Egon Schulte,2002-12-12 Abstract regular polytopes stand at the end of more than two millennia of geometrical research which began with regular polygons and polyhedra They are highly symmetric combinatorial structures with distinctive geometric algebraic or topological properties in many ways more fascinating than traditional regular polytopes and tessellations The rapid development of the subject in the past 20 years has resulted in a rich new theory featuring an attractive interplay of mathematical areas including geometry combinatorics group theory and topology Abstract regular polytopes and their groups provide an appealing new approach to understanding geometric and combinatorial symmetry This is the first comprehensive up to date account of the subject and its ramifications and meets a critical need for such a text because no book has been published in this area of classical and modern discrete geometry since Coxeter s Regular Polytopes 1948 and Regular Complex Polytopes 1974 The book should be of interest to researchers and graduate students in discrete geometry combinatorics and group theory   Geometry, Topology, and Dynamics in Negative Curvature C. S. Aravinda,F. T. Farrell,J. -F. Lafont,2016-01-21 The ICM 2010 satellite conference Geometry Topology and Dynamics in Negative Curvature afforded an excellent opportunity to discuss various aspects of this fascinating interdisciplinary subject in which methods and techniques from geometry topology and dynamics often interact in novel and interesting ways Containing ten survey articles written by some of the leading experts in the field this proceedings volume provides an overview of important recent developments relating to negative curvature Topics covered include homogeneous dynamics harmonic manifolds the Atiyah Conjecture counting circles and arcs and hyperbolic buildings Each author pays particular attention to the expository aspects making the book particularly useful for graduate students and mathematicians interested in transitioning from other areas via the common theme of negative curvature   **Quantum Triangulations** Mauro Carfora,Annalisa Marzuoli,2012-01-14 Research on polyhedral manifolds often points to unexpected connections between very distinct aspects of Mathematics and Physics In particular triangulated manifolds play quite a distinguished role in such settings as Riemann moduli space theory strings and quantum gravity topological quantum field theory condensed matter physics and critical phenomena Not only do they provide a natural discrete analogue to the smooth manifolds on which physical theories are typically formulated but their appearance is rather often a consequence of an underlying structure which naturally calls into play non trivial aspects of representation theory of complex analysis and topology in a way which

makes manifest the basic geometric structures of the physical interactions involved Yet in most of the existing literature triangulated manifolds are still merely viewed as a convenient discretization of a given physical theory to make it more amenable for numerical treatment The motivation for these lectures notes is thus to provide an approachable introduction to this topic emphasizing the conceptual aspects and probing through a set of cases studies the connection between triangulated manifolds and quantum physics to the deepest This volume addresses applied mathematicians and theoretical physicists working in the field of quantum geometry and its applications **Computational Aspects of Discrete Subgroups of Lie Groups** Alla Detinko,Michael Kapovich,Alex Kontorovich,Peter Sarnak,Richard Schwartz,2023-03-10 This volume contains the proceedings of the virtual workshop on Computational Aspects of Discrete Subgroups of Lie Groups held from June 14 to June 18 2021 and hosted by the Institute for Computational and Experimental Research in Mathematics ICERM Providence Rhode Island The major theme deals with a novel domain of computational algebra the design implementation and application of algorithms based on matrix representation of groups and their geometric properties It is centered on computing with discrete subgroups of Lie groups which impacts many different areas of mathematics such as algebra geometry topology and number theory The workshop aimed to synergize independent strands in the area of computing with discrete subgroups of Lie groups to facilitate solution of theoretical problems by means of recent advances in computational algebra **Hyperbolic Manifolds** Albert Marden,2016-02 This study of hyperbolic geometry has both pedagogy and research in mind and includes exercises and further reading for each chapter *Outer Circles* A. Marden,2007-05-31 We live in a three dimensional space what sort of space is it Can we build it from simple geometric objects The answers to such questions have been found in the last 30 years and Outer Circles describes the basic mathematics needed for those answers as well as making clear the grand design of the subject of hyperbolic manifolds as a whole The purpose of Outer Circles is to provide an account of the contemporary theory accessible to those with minimal formal background in topology hyperbolic geometry and complex analysis The text explains what is needed and provides the expertise to use the primary tools to arrive at a thorough understanding of the big picture This picture is further filled out by numerous exercises and expositions at the ends of the chapters and is complemented by a profusion of high quality illustrations There is an extensive bibliography for further study **Menelaus' ›Spherics‹** Roshdi Rashed,Athanase Papadopoulos,2017-10-23 Despite its importance in the history of Ancient science Menelaus Spherics is still by and large unknown This treatise which lies at the foundation of spherical geometry is lost in Greek but has been preserved in its Arabic versions The reader will find here for the first time edited and translated into English the essentials of this tradition namely a fragment of an early Arabic translation and the first Arabic redaction of the Spherics composed by al M h n al Haraw together with a historical and mathematical study of Menelaus treatise With this book a new and important part of the Greek and Arabic legacy to the history of mathematics comes to light This book will be an indispensable acquisition for any reader

interested in the history of Ancient geometry and science and more generally in Greek and Arabic science and culture

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