

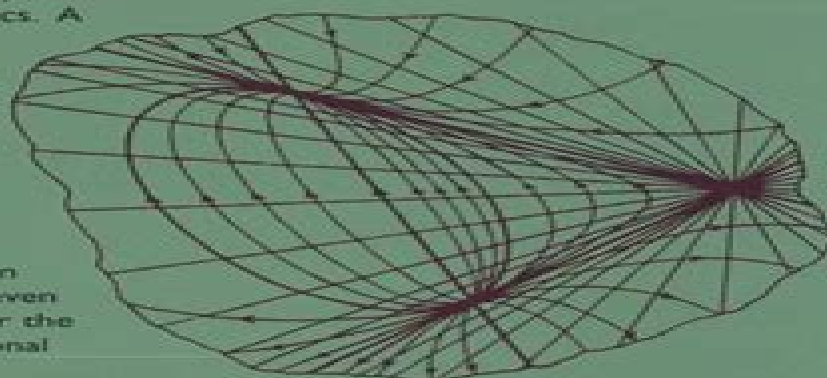
Sources of Hyperbolic Geometry

John Stillwell

This book presents, for the first time in English, the papers of Beltrami, Klein, and Poincaré that brought hyperbolic geometry into the mainstream of mathematics. A recognition of Beltrami comparable to that given the pioneering works of Bolyai and Lobachevsky seems long overdue—not only because Beltrami rescued hyperbolic geometry from oblivion by proving it to be logically consistent, but because he gave it a concrete meaning (a model) that made hyperbolic geometry part of ordinary mathematics.

The models subsequently discovered by Klein and Poincaré brought hyperbolic geometry even further down to earth and paved the way for the current explosion of activity in low-dimensional geometry and topology.

By placing the works of these three mathematicians side by side and providing commentaries, this book gives the student, historian, or professional geometer a bird's-eye view of one of the great episodes in mathematics. The unified setting and historical context reveal the insights of Beltrami, Klein, and Poincaré in their full brilliance.



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Foundations of Hyperbolic Manifolds John G. Ratcliffe, 2019-10-23 This heavily class tested book is an exposition of the theoretical foundations of hyperbolic manifolds It is both a textbook and a reference A basic knowledge of algebra and topology at the first year graduate level of an American university is assumed The first part is concerned with hyperbolic geometry and discrete groups The second part is devoted to the theory of hyperbolic manifolds The third part integrates the first two parts in a development of the theory of hyperbolic orbifolds Each chapter contains exercises and a section of historical remarks A solutions manual is available separately

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Shapes of Time Michael McGillen, 2023-12-15 *Shapes of Time* explores how concepts of time and history were spatialized in early twentieth century German thought Michael McGillen locates efforts in German modernism to conceive of alternative shapes of time beyond those of historicism and nineteenth century philosophies of history at the boundary between secular and theological discourses By analyzing canonical works of German modernism those of Karl Barth Franz Rosenzweig Siegfried Kracauer and Robert Musil he identifies the ways in which spatial imagery and metaphors were employed to both separate the end of history from a narrative framework and to map the liminal relation between history and eschatology Drawing on theories and practices as disparate as constructivism non Euclidean geometry photography and urban architecture *Shapes of Time* presents original connections between modernism theology and mathematics as played out within the canon of twentieth century German letters Concepts of temporal and spatial form McGillen contends

contribute to the understanding not only of modernist literature but also of larger theoretical concerns within modern cultural and intellectual history

Euclidean, Non-Euclidean, and Transformational Geometry Shlomo Libeskind, Isa S. Jubran, 2024-10-22 This undergraduate textbook provides a comprehensive treatment of Euclidean and transformational geometries supplemented by substantial discussions of topics from various non Euclidean and less commonly taught geometries making it ideal for both mathematics majors and pre service teachers Emphasis is placed on developing students deductive reasoning skills as they are guided through proofs constructions and solutions to problems The text frequently emphasizes strategies and heuristics of problem solving including constructing proofs Where to begin How to proceed Which approach is more promising Are there multiple solutions proofs etc This approach aims not only to enable students to successfully solve unfamiliar problems on their own but also to impart a lasting appreciation for mathematics The text first explores at a higher level and in much greater depth topics that are normally taught in high school geometry courses definitions and axioms congruence circles and related concepts area and the Pythagorean theorem similarity isometries and size transformations and composition of transformations Constructions and the use of transformations to carry out constructions are emphasized The text then introduces more advanced topics dealing with non Euclidean and less commonly taught topics such as inversive hyperbolic elliptic taxicab fractal and solid geometries By examining what happens when one or more of the building blocks of Euclidean geometry are altered students will gain a deeper understanding of and appreciation for Euclidean concepts To accommodate students with different levels of experience in the subject the basic definitions and axioms that form the foundation of Euclidean geometry are covered in Chapter 1 Problem sets are provided after every section in each chapter and include nonroutine problems that students will enjoy exploring While not necessarily required the appropriate use of freely available dynamic geometry software and other specialized software referenced in the text is strongly encouraged this is especially important for visual learners and for forming conjectures and testing hypotheses

Non-Euclidean Geometries András Prékopa, Emil Molnár, 2006-06-03 From nothing I have created a new different world wrote J nos Bolyai to his father Wolfgang Bolyai on November 3 1823 to let him know his discovery of non Euclidean geometry as we call it today The results of Bolyai and the co discoverer the Russian Lobachevskii changed the course of mathematics opened the way for modern physical theories of the twentieth century and had an impact on the history of human culture The papers in this volume which commemorates the 200th anniversary of the birth of J nos Bolyai were written by leading scientists of non Euclidean geometry its history and its applications Some of the papers present new discoveries about the life and works of J nos Bolyai and the history of non Euclidean geometry others deal with geometrical axiomatics polyhedra fractals hyperbolic Riemannian and discrete geometry tilings visualization and applications in physics

Macromolecules in Solution and Brownian Relativity Stefano Antonio Mezzasalma, 2008-07-22 Macromolecules in Solution and Brownian Relativity illustrates the recent picture of statistical physics of polymers and polymer solutions that

emerges from some paradigms of contemporary science joint together Among its principal aims are discussing the consequences of a novel self diffusion theory which benefits from an extension towards relativistic like principles and the generalization of usual concepts met in polymer science in terms of geometry alone The monograph gives the whole fundamentals necessary to handle the view proposed which is set in the final chapters All the formers see about to provide the reader with a comprehensive treatise of the necessary fundamentals of classical relativistic quantum and statistical mechanics Among the most important mechanical theories ever developed a chapter on the Brownian movement and another on macromolecules prepare the ground that is specific to face universality and scaling behaviors in polymer solutions The scope of the book is therefore two fold On the one hand it wishes to involve the readers and scholars into a new research on polymer physics and chemistry On the other to get close chemical physicists and physical chemists to disciplines which traditionally are far from their direct fields of interest Cross disciplinarity Novelty Potentiality A New Perspective on Relativity Bernard H. Lavenda, 2012 Starting off from noneuclidean geometries apart from the method of Einstein's equations this book derives and describes the phenomena of gravitation and diffraction A historical account is presented exposing the missing link in Einstein's construction of the theory of general relativity the uniformly rotating disc together with his failure to realize that the Beltrami metric of hyperbolic geometry with constant curvature describes exactly the uniform acceleration observed This book also explores these questions How does time bend Why should gravity propagate at the speed of light How does the expansion function of the universe relate to the absolute constant of the noneuclidean geometries Why was the Sagnac effect ignored Can Maxwell's equations accommodate mass Is there an inertia due solely to polarization Can objects expand in elliptic geometry like they contract in hyperbolic geometry **CRC Concise Encyclopedia of Mathematics** Eric W. Weisstein, 2002-12-12 Upon publication the first edition of the CRC Concise Encyclopedia of Mathematics received overwhelming accolades for its unparalleled scope readability and utility It soon took its place among the top selling books in the history of Chapman Hall CRC and its popularity continues unabated Yet also unabated has been the d **Crocheting Adventures with Hyperbolic Planes** Daina Taimina, 2018-02-19 Winner Euler Book Prize awarded by the Mathematical Association of America With over 200 full color photographs this non traditional tactile introduction to non Euclidean geometries also covers early development of geometry and connections between geometry art nature and sciences For the crafter or would be crafter there are detailed instructions for how to crochet various geometric models and how to use them in explorations New to the 2nd Edition Daina Taimina discusses her own adventures with the hyperbolic planes as well as the experiences of some of her readers Includes recent applications of hyperbolic geometry such as medicine architecture fashion quantum computing

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