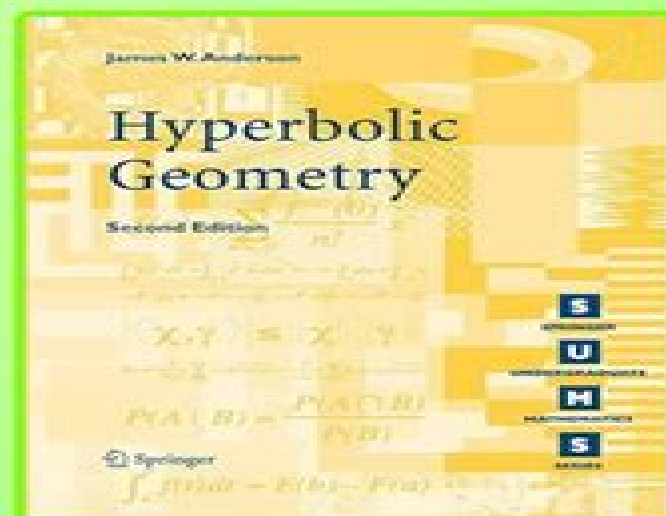


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Hyperbolic Geometry Springer Undergraduate Mathematics Series

James W. Anderson



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Hyperbolic Geometry James W. Anderson, 2013-06-29 The geometry of the hyperbolic plane has been an active and fascinating field of mathematical inquiry for most of the past two centuries This book provides a self contained introduction to the subject providing the reader with a firm grasp of the concepts and techniques of this beautiful area of mathematics Topics covered include the upper half space model of the hyperbolic plane Möbius transformations the general Möbius group and the subgroup preserving path length in the upper half space model arc length and distance the Poincaré disc model convex subsets of the hyperbolic plane and the Gauss Bonnet formula for the area of a hyperbolic polygon and its applications This updated second edition also features an expanded discussion of planar models of the hyperbolic plane arising from complex analysis the hyperboloid model of the hyperbolic plane a brief discussion of generalizations to higher dimensions many new exercises

Hyperbolic Geometry James Anderson, 2009-10-12 Thoroughly updated featuring new material on important topics such as hyperbolic geometry in higher dimensions and generalizations of hyperbolicity Includes full solutions for all exercises Successful first edition sold over 800 copies in North America

Analytic Hyperbolic Geometry And Albert Einstein's Special Theory Of Relativity (Second Edition) Abraham Albert Ungar, 2022-02-22 This book presents a powerful way to study Einstein's special theory of relativity and its underlying hyperbolic geometry in which analogies with classical results form the right tool The premise of analogy as a study strategy is to make the unfamiliar familiar Accordingly this book introduces the notion of vectors into analytic hyperbolic geometry where they are called gyrovectors Gyrovectors turn out to be equivalence classes that add according to the gyroparallelogram law just as vectors are equivalence classes that add according to the parallelogram law In the gyrolanguage of this book accordingly one prefixes a gyro to a classical term to mean the analogous term in hyperbolic geometry As an example the relativistic gyrotrigonometry of Einstein's special relativity is developed and employed to the study of the stellar aberration phenomenon in astronomy Furthermore the book presents for the first time the relativistic center of mass of an isolated system of noninteracting particles that coincided at some initial time $t = 0$ It turns out that the invariant mass of the relativistic center of mass of an expanding system like galaxies exceeds the sum of the masses of its constituent particles This excess of mass suggests a viable mechanism for the formation of dark matter in the universe which has not been detected but is needed to gravitationally glue each galaxy in the universe The discovery of the relativistic center of mass in this book thus demonstrates once again the usefulness of the study of Einstein's special theory of relativity in terms of its underlying hyperbolic geometry

Analytic Hyperbolic Geometry: Mathematical Foundations And Applications Abraham Albert Ungar, 2005-09-05 This is the first book on analytic hyperbolic geometry fully analogous to analytic Euclidean geometry Analytic hyperbolic geometry regulates relativistic mechanics just as analytic Euclidean geometry regulates classical mechanics The book presents a novel gyrovector space approach to analytic hyperbolic geometry fully analogous to the well

known vector space approach to Euclidean geometry A gyrovector is a hyperbolic vector Gyrovectors are equivalence classes of directed gyrosegments that add according to the gyroparallelogram law just as vectors are equivalence classes of directed segments that add according to the parallelogram law In the resulting gyrolanguage of the book one attaches the prefix gyro to a classical term to mean the analogous term in hyperbolic geometry The prefix stems from Thomas gyration which is the mathematical abstraction of the relativistic effect known as Thomas precession Gyrolanguage turns out to be the language one needs to articulate novel analogies that the classical and the modern in this book share The scope of analytic hyperbolic geometry that the book presents is cross disciplinary involving nonassociative algebra geometry and physics As such it is naturally compatible with the special theory of relativity and particularly with the nonassociativity of Einstein velocity addition law Along with analogies with classical results that the book emphasizes there are remarkable disanalogies as well Thus for instance unlike Euclidean triangles the sides of a hyperbolic triangle are uniquely determined by its hyperbolic angles Elegant formulas for calculating the hyperbolic side lengths of a hyperbolic triangle in terms of its hyperbolic angles are presented in the book The book begins with the definition of gyrogroups which is fully analogous to the definition of groups Gyrogroups both gyrocommutative and non gyrocommutative abound in group theory Surprisingly the seemingly structureless Einstein velocity addition of special relativity turns out to be a gyrocommutative gyrogroup operation Introducing scalar multiplication some gyrocommutative gyrogroups of gyrovectors become gyrovector spaces The latter in turn form the setting for analytic hyperbolic geometry just as vector spaces form the setting for analytic Euclidean geometry By hybrid techniques of differential geometry and gyrovector spaces it is shown that Einstein M bius gyrovector spaces form the setting for Beltrami Klein Poincaré ball models of hyperbolic geometry Finally novel applications of M bius gyrovector spaces in quantum computation and of Einstein gyrovector spaces in special relativity are presented **Analytic**

Hyperbolic Geometry in N Dimensions Abraham Albert Ungar, 2014-12-17 The concept of the Euclidean simplex is important in the study of n dimensional Euclidean geometry This book introduces for the first time the concept of hyperbolic simplex as an important concept in n dimensional hyperbolic geometry Following the emergence of his gyroalgebra in 1988 the author crafted gyrolanguage the algebraic language that sheds natural light on hyperbolic geometry and special relativity Several authors have successfully employed the author's gyroalgebra in their exploration for novel results Fran oise Chatelin noted in her book and elsewhere that the computation language of Einstein described in this book plays a universal computational role which extends far beyond the domain of special relativity This book will encourage researchers to use the author's novel techniques to formulate their own results The book provides new mathematical tools such as hyperbolic simplexes for the study of hyperbolic geometry in n dimensions It also presents a new look at Einstein's special relativity theory 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.

Geometry: from Isometries to Special Relativity Nam-Hoon Lee, 2020-04-28. This textbook offers a geometric perspective on special relativity, bridging Euclidean space, hyperbolic space, and Einstein's spacetime in one accessible, self-contained volume. Using tools tailored to undergraduates, the author explores Euclidean and non-Euclidean geometries, gradually building from intuitive to abstract spaces. By the end, readers will have encountered a range of topics from isometries to the Lorentz-Minkowski plane, building an understanding of how geometry can be used to model special relativity. Beginning with intuitive spaces such as the Euclidean plane and the sphere, a structure theorem for isometries is introduced that serves as a foundation for increasingly sophisticated topics such as the hyperbolic plane and the Lorentz-Minkowski plane. By gradually introducing tools throughout, the author offers readers an accessible pathway to visualizing increasingly abstract geometric concepts. Numerous exercises are also included, with selected solutions provided. *Geometry from Isometries to Special Relativity* offers a unique approach to non-Euclidean geometries, culminating in a mathematical model for special relativity. The focus on isometries offers undergraduates an accessible progression from the intuitive to the abstract. Instructors will appreciate the complete instructor solutions manual, available online. A background in elementary calculus is assumed.

Dynamical Systems by Example Luís Barreira, Claudia Valls, 2019-04-17. This book comprises an impressive collection of problems that cover a variety of carefully selected topics on the core of the theory of dynamical systems. Aimed at the graduate/upper undergraduate level, the emphasis is on dynamical systems with discrete time. In addition to the basic theory, the topics include topological, low-dimensional hyperbolic, and symbolic dynamics, as well as basic ergodic theory. As in other areas of mathematics, one can gain the first working knowledge of a topic by solving selected problems. It is rare to find large collections of problems in an advanced field of study, much less to discover accompanying detailed solutions. This text fills a gap and can be used as a strong companion to an analogous dynamical systems textbook, such as the author's own *Dynamical Systems* (Universitext, Springer) or another text designed for a one- or two-semester advanced undergraduate/graduate course. The book is also intended for independent study. Problems often begin with specific cases and then move on to general results, following a natural path of learning. They are also well graded in terms of increasing the challenge to the reader. Anyone who works through the theory and problems in Part I will have acquired the background and techniques needed to do advanced studies in this area. Part II includes complete solutions to

every problem given in Part I with each conveniently restated Beyond basic prerequisites from linear algebra differential and integral calculus and complex analysis and topology in each chapter the authors recall the notions and results without proofs that are necessary to treat the challenges set for that chapter thus making the text self contained **Elementary**

Differential Geometry A.N. Pressley, 2010-03-10 Elementary Differential Geometry presents the main results in the differential geometry of curves and surfaces suitable for a first course on the subject Prerequisites are kept to an absolute minimum nothing beyond first courses in linear algebra and multivariable calculus and the most direct and straightforward approach is used throughout New features of this revised and expanded second edition include a chapter on non Euclidean geometry a subject that is of great importance in the history of mathematics and crucial in many modern developments The main results can be reached easily and quickly by making use of the results and techniques developed earlier in the book Coverage of topics such as parallel transport and its applications map colouring holonomy and Gaussian curvature Around 200 additional exercises and a full solutions manual for instructors available via www.springer.com ICGG 2022 - Proceedings of the 20th International Conference on Geometry and Graphics Liang-Yee Cheng, 2022-08-12 This book covers recent achievements on the ever expanding field of Geometry and Graphics on both analogical and digital fronts from theoretical investigations to a broad range of applications new teaching methodologies and historical aspects It is from 20th International Conference on Geometry and Graphics ICGG2022 a series of conference that started in 1978 and promoted by International Society for Geometry and Graphics which aims to foster international collaboration and stimulate the scientific research and teaching innovations in the multidisciplinary field The contents of the book are organized in Theoretical Geometry and Graphics Applied Geometry and Graphics Engineering Computer Graphics Graphics Education Geometry and Graphics in History and are intent for the academics researchers and professionals in architecture engineering industrial design mathematics and arts A Gyrovector Space Approach to Hyperbolic Geometry Abraham Ungar, 2022-06-01 The mere mention of hyperbolic geometry is enough to strike fear in the heart of the undergraduate mathematics and physics student Some regard themselves as excluded from the profound insights of hyperbolic geometry so that this enormous portion of human achievement is a closed door to them The mission of this book is to open that door by making the hyperbolic geometry of Bolyai and Lobachevsky as well as the special relativity theory of Einstein that it regulates accessible to a wider audience in terms of novel analogies that the modern and unknown share with the classical and familiar These novel analogies that this book captures stem from Thomas gyration which is the mathematical abstraction of the relativistic effect known as Thomas precession Remarkably the mere introduction of Thomas gyration turns Euclidean geometry into hyperbolic geometry and reveals mystique analogies that the two geometries share Accordingly Thomas gyration gives rise to the prefix gyro that is extensively used in the gyrolanguage of this book giving rise to terms like gyrocommutative and gyroassociative binary operations in gyrogroups and gyrovectors in gyrovector spaces Of particular importance is the

introduction of gyrovectors into hyperbolic geometry where they are equivalence classes that add according to the gyroparallelogram law in full analogy with vectors which are equivalence classes that add according to the parallelogram law A gyroparallelogram in turn is a gyroquadrilateral the two gyrodiagonals of which intersect at their gyromidpoints in full analogy with a parallelogram which is a quadrilateral the two diagonals of which intersect at their midpoints

Table of Contents Gyrogroups Gyrocommutative Gyrogroups Gyrovector Spaces Gyrotrigonometry *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 David A. Brannan, Matthew F. Esplen, Jeremy J. Gray, 2011-12-22 This richly illustrated and clearly written undergraduate textbook captures the excitement and beauty of geometry The approach is that of Klein in his Erlangen programme a geometry is a space together with a set of transformations of the space The authors explore various geometries affine projective inversive hyperbolic and elliptic In each case they carefully explain the key results and discuss the relationships between the geometries New features in this second edition include concise end of chapter summaries to aid student revision a list of further reading and a list of special symbols The authors have also revised many of the end of chapter exercises to make them more challenging and to include some interesting new results Full solutions to the 200 problems are included in the text while complete solutions to all of the end of chapter exercises are available in a new Instructors Manual which can be downloaded from www.cambridge.org 9781107647831

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 MUS - Mathematimus - Hyperelliptical Geometry Stenio Musich, 2024-03-25 M U S Mathematical Uniform Space is a new number of π representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics ISBN 978 65 00 98107 0 *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 **Elementary Geometry** Ilka Agricola, Thomas Friedrich, 2008 Plane geometry is developed from its basic objects and their properties and then moves to conics and basic solids including the Platonic solids and a proof of Euler's polytope formula Particular care is taken to explain symmetry groups including the description of ornaments and the classification of isometries *The Richness of the History of Mathematics* Karine Chemla, José Ferreirós, Lizhen Ji, Erhard Scholz, Chang Wang, 2023-11-27 This book a tribute to historian of mathematics Jeremy Gray offers an overview of the history of mathematics and its inseparable connection to philosophy and other disciplines Many different approaches to the study of the history of mathematics have been developed Understanding this diversity is central to learning about these fields but very few books deal with their richness and concrete suggestions for the what why and how of these domains of inquiry The editors and authors approach the basic question of what the history of mathematics is by means of concrete examples For the how question basic methodological issues are addressed from the different perspectives of mathematicians and historians Containing essays by leading scholars this book provides a multitude of perspectives on mathematics its role in culture and development and connections with other sciences making it an important resource for students and academics in the history

and philosophy of mathematics

Interactions Between Hyperbolic Geometry, Quantum Topology and Number Theory Abhijit Champanerkar, 2011 This book is based on a 10 day workshop given by leading experts in hyperbolic geometry quantum topology and number theory in June 2009 at Columbia University Each speaker gave a minicourse consisting of three or four lectures aimed at graduate students and recent PhDs The proceedings of this enormously successful workshop can serve as an introduction to this active research area in a way that is expository and broadly accessible to graduate students Although many ideas overlap the twelve expository research papers in this volume can be grouped into four rough categories 1 different approaches to the Volume Conjecture and relations between the main quantum and geometric invariants 2 the geometry associated to triangulations of hyperbolic 3 manifolds 3 arithmetic invariants of hyperbolic 3 manifolds 4 quantum invariants associated to knots and hyperbolic 3 manifolds The workshop the conference that followed and these proceedings continue a long tradition in quantum and geometric topology of bringing together ideas from diverse areas of mathematics and physics and highlights the importance of collaborative research in tackling big problems that require expertise in disparate disciplines

Mathematicians in Bologna 1861-1960 Salvatore COEN, 2012-05-11 The scientific personalities of Luigi Cremona Eugenio Beltrami Salvatore Pincherle Federico Enriques Beppo Levi Giuseppe Vitali Beniamino Segre and of several other mathematicians who worked in Bologna in the century 1861 1960 are examined by different authors in some cases providing different view points Most contributions in the volume are historical they are reproductions of original documents or studies on an original work and its impact on later research The achievements of other mathematicians are investigated for their present day importance

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