

Euclidean and Non-Euclidean Geometries

DEVELOPMENT AND HISTORY

Marvin Jay Greenberg



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Marvin J. Greenberg



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Euclidean and Non-Euclidean Geometries Marvin J. Greenberg,1993-07-15 This classic text provides overview of both classic and hyperbolic geometries placing the work of key mathematicians philosophers in historical context Coverage includes geometric transformations models of the hyperbolic planes and pseudospheres

Euclidean and Non-Euclidean Geometries Marvin J. Greenberg,2007-09-28 This is the definitive presentation of the history development and philosophical significance of non Euclidean geometry as well as of the rigorous foundations for it and for elementary Euclidean geometry essentially according to Hilbert Appropriate for liberal arts students prospective high school teachers math majors and even bright high school students The first eight chapters are mostly accessible to any educated reader the last two chapters and the two appendices contain more advanced material such as the classification of motions hyperbolic trigonometry hyperbolic constructions classification of Hilbert planes and an introduction to Riemannian geometry

Euclidean and Non-Euclidean Geometries Marvin Jay Greenberg,1993 **Euclidean and Non-Euclidean Geometries** ,1997 Eucl Non-Eucl Geom Marvin Jay Greenberg,1974-01-01 Euclidean and Non Euclidean Geometries presents the discovery of non

Euclidean geometry and the reformulation of the foundations of Euclidean geometry *Instructor's Manual for Euclidean and Non-Euclidean Geometries* Marvin J. Greenberg,1994 **The Visual Mind II** Michele Emmer,2005 This collection of essays by artists and mathematicians continues the discussion of the connections between art and mathematics begun in the widely read first volume of The Visual Mind in 1993 BOOK JACKET *Euclidean and Non-euclidean Geometries* Maria

Helena Noronha,2002 This book develops a self contained treatment of classical Euclidean geometry through both axiomatic and analytic methods Concise and well organized it prompts readers to prove a theorem yet provides them with a framework for doing so Chapter topics cover neutral geometry Euclidean plane geometry geometric transformations Euclidean 3 space Euclidean n space perimeter area and volume spherical geometry hyperbolic geometry models for plane geometries and the hyperbolic metric

Euclidean Geometry and its Subgeometries Edward John Specht,Harold Trainer Jones,Keith G. Calkins,Donald H. Rhoads,2015-12-31 In this monograph the authors present a modern development of Euclidean geometry from independent axioms using up to date language and providing detailed proofs The axioms for incidence betweenness and plane separation are close to those of Hilbert This is the only axiomatic treatment of Euclidean geometry that uses axioms not involving metric notions and that explores congruence and isometries by means of reflection mappings The authors present thirteen axioms in sequence proving as many theorems as possible at each stage and in the process building up subgeometries most notably the Pasch and neutral geometries Standard topics such as the congruence theorems for triangles embedding the real numbers in a line and coordinatization of the plane are included as well as theorems of Pythagoras Desargues Pappas Menelaus and Ceva The final chapter covers consistency and independence of axioms as well as independence of definition properties There are over 300 exercises solutions to many of these including all that are needed

for this development are available online at the homepage for the book at www.springer.com Supplementary material is available online covering construction of complex numbers arc length the circular functions angle measure and the polygonal form of the Jordan Curve theorem Euclidean Geometry and Its Subgeometries is intended for advanced students and mature mathematicians but the proofs are thoroughly worked out to make it accessible to undergraduate students as well It can be regarded as a completion updating and expansion of Hilbert's work filling a gap in the existing literature *Geometry:*

Euclid and Beyond Robin Hartshorne, 2013-11-11 In recent years I have been teaching a junior senior level course on the classical geometries This book has grown out of that teaching experience I assume only high school geometry and some abstract algebra The course begins in Chapter 1 with a critical examination of Euclid's Elements Students are expected to read concurrently Books I-IV of Euclid's text which must be obtained separately The remainder of the book is an exploration of questions that arise naturally from this reading together with their modern answers To shore up the foundations we use Hilbert's axioms The Cartesian plane over a field provides an analytic model of the theory and conversely we see that one can introduce coordinates into an abstract geometry The theory of area is analyzed by cutting figures into triangles The algebra of field extensions provides a method for deciding which geometrical constructions are possible The investigation of the parallel postulate leads to the various non-Euclidean geometries And in the last chapter we provide what is missing from Euclid's treatment of the five Platonic solids in Book XIII of the Elements For a one semester course such as I teach Chapters 1 and 2 form the core material which takes six to eight weeks **The Non-Euclidean Revolution** Richard J.

Trudeau, 2009-06-08 Richard Trudeau confronts the fundamental question of truth and its representation through mathematical models in *The Non-Euclidean Revolution* First the author analyzes geometry in its historical and philosophical setting second he examines a revolution every bit as significant as the Copernican revolution in astronomy and the Darwinian revolution in biology third on the most speculative level he questions the possibility of absolute knowledge of the world A portion of the book won the Pólya Prize a distinguished award from the Mathematical Association of America the author in this remarkable book describes in an incomparable way the fascinating path taken by the geometry of the plane in its historical evolution from antiquity up to the discovery of non-Euclidean geometry This non-Euclidean revolution in all its aspects is described very strikingly here Many illustrations and some amusing sketches complement the very vividly written text Mathematical Reviews Captain Scott: Icy Deceits and Untold Realities Krzysztof Sienicki, 2016-11-01 This expertly written book is nothing less than a daring challenge to the prevailing views of Captain Robert F. Scott's journey to the South Pole and consequent disaster Borrowing from various scientific disciplines Krzysztof Sienicki lucidly argues against each of the presumed causes of Captain Scott and his companions' deaths In particular he demolishes the notions of extreme low temperatures ferocious winds and food/fuel shortages as the main causes of the disaster Using neural network computer simulations he proves that the Extreme Cold Snap Never-Ending Gale and food/fuel scarcity never occurred By eliminating

the alleged causes of the disaster the author provides data and arguments that the deaths Scott Wilson and Bowers were a matter of choice rather than fate The choice was made long before there was an actual end of food fuel and long before the end of the physical strength needed to reach delusive salvation at One Ton Dep t Biodiversity in Agricultural Landscapes of Southeastern Brazil Carla Gheler-Costa, Maria Carolina Lyra-Jorge, Luciano Martins Verdade, 2016-04-11 The state of S o Paulo Brazil is one of the most densely populated and developed areas in South America Such development is evident both in terms of industrialization and urbanization as well as in agriculture which is heavily based on sugar cane Eucalyptus plantations and livestock This intense land use has resulted in great alteration of the original land cover and fragmentation of natural ecosystems For these reasons it is almost a paradox that jaguar a species that requires large areas of pristine forest to exist is still found in some parts of the state of S o Paulo It is possible that wild animals could leave in coexistence with intense land use or is it the case that such rare encounters with large wild animals in S o Paulo will disappear in the near future All ecologists are aware of the problems of habitat changes caused by humans but it was not until recent years that researchers started to consider that the land used for production could also serve as an important habitat for many different kinds of wild species This book is about this new approach to conservation It also highlights the important role that sciences could and should have in this discussion in order to better understand the problems and propose possible solutions **A History of Mathematics** Luke Hodgkin, 2013-02-21 A History of Mathematics From Mesopotamia to Modernity covers the evolution of mathematics through time and across the major Eastern and Western civilizations It begins in Babylon then describes the trials and tribulations of the Greek mathematicians The important and often neglected influence of both Chinese and Islamic mathematics is covered in detail placing the description of early Western mathematics in a global context The book concludes with modern mathematics covering recent developments such as the advent of the computer chaos theory topology mathematical physics and the solution of Fermat s Last Theorem Containing more than 100 illustrations and figures this text aimed at advanced undergraduates and postgraduates addresses the methods and challenges associated with studying the history of mathematics The reader is introduced to the leading figures in the history of mathematics including Archimedes Ptolemy Qin Jiushao al Kashi al Khwarizmi Galileo Newton Leibniz Helmholtz Hilbert Alan Turing and Andrew Wiles and their fields An extensive bibliography with cross references to key texts will provide invaluable resource to students and exercises with solutions will stretch the more advanced reader Visual Differential Geometry and Forms Tristan Needham, 2021-07-13 An inviting intuitive and visual exploration of differential geometry and forms Visual Differential Geometry and Forms fulfills two principal goals In the first four acts Tristan Needham puts the geometry back into differential geometry Using 235 hand drawn diagrams Needham deploys Newton s geometrical methods to provide geometrical explanations of the classical results In the fifth act he offers the first undergraduate introduction to differential forms that treats advanced topics in an intuitive and geometrical manner Unique features of the first four acts

include four distinct geometrical proofs of the fundamentally important Global Gauss Bonnet theorem providing a stunning link between local geometry and global topology a simple geometrical proof of Gauss's famous Theorema Egregium a complete geometrical treatment of the Riemann curvature tensor of an n manifold and a detailed geometrical treatment of Einstein's field equation describing gravity as curved spacetime General Relativity together with its implications for gravitational waves black holes and cosmology The final act elucidates such topics as the unification of all the integral theorems of vector calculus the elegant reformulation of Maxwell's equations of electromagnetism in terms of 2 forms de Rham cohomology differential geometry via Cartan's method of moving frames and the calculation of the Riemann tensor using curvature 2 forms Six of the seven chapters of Act V can be read completely independently from the rest of the book Requiring only basic calculus and geometry Visual Differential Geometry and Forms provocatively rethinks the way this important area of mathematics should be considered and taught

Flatland Edwin Abbott, 2009-11-13 Flatland 1884 is an influential mathematical fantasy that simultaneously provides an introduction to non Euclidean geometry and a satire on the Victorian class structure issues of science and faith and the role of women A classic of early science fiction the novel takes place in a world of two dimensions where all the characters are geometric shapes The narrator A Square is a naive respectable citizen who is faced with proof of the existence of three dimensions when he is visited by a sphere and is forced to see the limitations of his world The introduction to this Broadview Edition provides context for the book's references to Victorian culture and religion mathematical history and the history of philosophy The appendices contain contemporary reviews extracts from the work of fellow mathematical fantasy writer mathematician Charles Hinton Hermann von Helmholtz's The Axioms of Geometry 1870 and autobiographical passages from Abbott's The Kernel and the Husk 1886

The Universal Book of Mathematics David Darling, 2008-04-21 Praise for David Darling The Universal Book of Astronomy A first rate resource for readers and students of popular astronomy and general science Highly recommended Library Journal A comprehensive survey and a rare treat Focus The Complete Book of Spaceflight Darling's content and presentation will have any reader moving from entry to entry The Observatory magazine Life Everywhere This remarkable book exemplifies the best of today's popular science writing it is lucid informative and thoroughly enjoyable Science Books Films An enthralling introduction to the new science of astrobiology Lynn Margulis Equations of Eternity One of the clearest and most eloquent expositions of the quantum conundrum and its philosophical and metaphysical implications that I have read recently The New York Times Deep Time A wonderful book The perfect overview of the universe Larry Niven

Shifting the Earth Arthur Mazer, 2011-09-09 Discover how mathematics and science have propelled history From Ancient Greece to the Enlightenment and then on to modern times Shifting the Earth The Mathematical Quest to Understand the Motion of the Universe takes readers on a journey motivated by the desire to understand the universe and the motion of the heavens The author presents a thought provoking depiction of the sociopolitical environment in which some of the most prominent scientists in history lived

and then provides a mathematical account of their contributions From Eudoxus to Einstein this fascinating book describes how beginning in ancient times pioneers in the sciences and mathematics have dramatically changed our vision of who we are as well as our place in the universe Readers will discover how Ptolemy's geocentric model evolved into Kepler's heliocentric model with Copernicus as the critical intermediary The author explains how one scientific breakthrough set the stage for the next one and he also places the scientists and their discoveries within the context of history including Archimedes Apollonius and the Punic Wars Ptolemy and the rise of Christianity Copernicus and the Renaissance Kepler and the Counter Reformation Newton and the Enlightenment Einstein and the detonation of the atom bomb Each chapter presents the work of a single scientist or mathematician building on the previous chapters to demonstrate the evolutionary process of discovery Chapters begin with a narrative section and conclude with a mathematical presentation of one of the scientist's original works Most of these mathematical presentations including the section on Einstein's special relativity are accessible using only basic mathematics however readers can skip the mathematical sections and still follow the evolution of science and mathematics Shifting the Earth is an excellent book for anyone interested in the history of mathematics and how the quest to understand the motion of the heavens has influenced the broader history of humankind

Geometry and Interpolation of Curves and Surfaces Robin J. Y. McLeod, M. Louisa Baart, 1998-07-13 This text takes a practical step by step approach to algebraic curves and surface interpolation motivated by the understanding of the many practical applications in engineering analysis approximation and curve plotting problems Because of its usefulness for computing the algebraic approach is the main theme but a brief discussion of the synthetic approach is also presented as a way of gaining additional insight before proceeding with the algebraic manipulation Professionals students and researchers in applied mathematics solid modeling graphics robotics and engineering design and analysis will find this a useful reference

A History of Folding in Mathematics Michael Friedman, 2018-05-25 While it is well known that the Delian problems are impossible to solve with a straightedge and compass for example it is impossible to construct a segment whose length is cube root of 2 with these instruments the discovery of the Italian mathematician Margherita Beloch Piazzolla in 1934 that one can in fact construct a segment of length cube root of 2 with a single paper fold was completely ignored till the end of the 1980s This comes as no surprise since with few exceptions paper folding was seldom considered as a mathematical practice let alone as a mathematical procedure of inference or proof that could prompt novel mathematical discoveries A few questions immediately arise Why did paper folding become a non instrument What caused the marginalisation of this technique And how was the mathematical knowledge which was nevertheless transmitted and prompted by paper folding later treated and conceptualised Aiming to answer these questions this volume provides for the first time an extensive historical study on the history of folding in mathematics spanning from the 16th century to the 20th century and offers a general study on the ways mathematical knowledge is marginalised disappears is ignored or becomes obsolete In doing so it makes a valuable

contribution to the field of history and philosophy of science particularly the history and philosophy of mathematics and is highly recommended for anyone interested in these topics

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