

Modern Geometries

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this text updates the teaching of college geometry based upon three fundamental ideas geometries only approximate reality the best presentation of a geometry is by transformation groups and points and other geometric objects should be co ordinated the work is designed to be engaging and accessible and it describes geometry as it is understood and used by contemporary mathematicians and theoretical scientists

engaging accessible and extensively illustrated this brief but solid introduction to modern geometry describes geometry as it is understood and used by contemporary mathematicians and theoretical scientists basically non euclidean in approach it relates geometry to familiar ideas from analytic geometry staying firmly in the cartesian plane it uses the principle geometric concept of congruence or geometric transformation introducing and using the erlanger program explicitly throughout it features significant modern applications of geometry e g the geometry of relativity symmetry art and crystallography finite geometry and computation covers a full range of topics from plane geometry projective geometry solid geometry discrete geometry and axiom systems for anyone interested in an introduction to geometry used by contemporary mathematicians and theoretical scientists

this book is based on real inner product spaces X of arbitrary finite or infinite dimension greater than or equal to 2 designed as a two term graduate course the book helps students to understand great ideas of classical geometries in a modern and general context a real benefit is the dimension free approach to important geometrical theories the only prerequisites are basic linear algebra and basic 2 and 3 dimensional real geometry

the focus of this book and its geometric notions is on real vector spaces X that are finite or infinite inner product spaces of arbitrary dimension greater than or equal to 2 it characterizes both euclidean and hyperbolic geometry with respect to natural properties of general translations and general distances of X also for these spaces X it studies the sphere geometries of Möbius and Lie as well as geometries where lorentz transformations play the key role proofs of newer theorems characterizing isometries and lorentz transformations under mild hypotheses are included such as for instance infinite dimensional versions of famous theorems of Alexandrov on lorentz transformations a real benefit is the dimension free approach to important geometrical theories new to this third edition is a chapter dealing with a simple and great idea of Leibniz that allows us to characterize for these same spaces X hyperplanes of euclidean hyperbolic geometry or spherical geometry the geometries of Lorentz Minkowski and de Sitter and this through finite or infinite dimensions greater than 1 another new and fundamental result in this edition concerns the representation of hyperbolic motions their form and their transformations further we show that the geometry p g of segments based on X is isomorphic to the hyperbolic geometry over X here p collects all x in X of norm less than one g is defined to be the group of bijections of p transforming segments of p onto segments the only prerequisites for reading this book are basic linear algebra and basic 2 and 3 dimensional real geometry this implies that mathematicians who have not so far been especially interested in geometry could study and understand some of the great ideas of classical geometries in modern and general contexts

this is an introduction to the theory and applications of modern geometry it differs from other books in its field in its emphasis on applications and its discussion of special relativity as a major example of a non euclidean geometry besides special relativity it covers two other important areas of non euclidean geometry spherical geometry used in navigation and astronomy and projective geometry used in art in addition it reviews many useful topics from euclidean geometry emphasizing transformations and includes a chapter on conics and planetary orbits applications are stressed throughout the book every topic is motivated by an application and many additional applications are given in the exercises the book would

be an excellent introduction to higher geometry for those students especially prospective mathematics and teachers who need to know how geometry is used in addition to its formal theory

the book is an innovative modern exposition of geometry or rather of geometries it is the first textbook in which felix klein s erlangen program the action of transformation groups is systematically used as the basis for defining various geometries the course of study presented is dedicated to the proposition that all geometries are created equal although some of course remain more equal than others the author concentrates on several of the more distinguished and beautiful ones which include what he terms toy geometries the geometries of platonic bodies discrete geometries and classical continuous geometries the text is based on first year semester course lectures delivered at the independent university of moscow in 2003 and 2006 it is by no means a formal algebraic or analytic treatment of geometric topics but rather a highly visual exposition containing upwards of 200 illustrations the reader is expected to possess a familiarity with elementary euclidean geometry albeit those lacking this knowledge may refer to a compendium in chapter 0 per the author s predilection the book contains very little regarding the axiomatic approach to geometry save for a single chapter on the history of non euclidean geometry but two appendices provide a detailed treatment of euclid s and hilbert s axiomatics perhaps the most important aspect of this course is the problems which appear at the end of each chapter and are supplemented with answers at the conclusion of the text by analyzing and solving these problems the reader will become capable of thinking and working geometrically much more so than by simply learning the theory ultimately the author makes the distinction between concrete mathematical objects called geometries and the singular geometry which he understands as a way of thinking about mathematics although the book does not address branches of mathematics and mathematical physics such as riemannian and kahler manifolds or say differentiable manifolds and conformal field theories the ideology of category language and transformation groups on which the book is based prepares the reader for the study of and eventually research in these important and rapidly developing areas of contemporary mathematics

this book is an introduction to the theory and applications of modern geometry roughly speaking geometry that was developed after euclid it covers three major areas of non euclidean geometry and their applications spherical geometry used in navigation and astronomy projective geometry used in art and spacetime geometry used in the special theory of relativity in addition it treats some of the more useful topics from euclidean geometry focusing on the use of euclidean motions and includes a chapter on conics and the orbits of planets my aim in writing this book was to balance theory with applications it seems to me that students of geometry especially prospective mathematics teachers need to be aware of how geometry is used as well as how it is derived every topic in the book is motivated by an application and many additional applications are given in the exercises this emphasis on applications is responsible for a somewhat nontraditional choice of topics i left out hyperbolic geometry a traditional topic with practically no applications that are intelligible to undergraduates and replaced it with the spacetime geometry of special relativity a thoroughly non euclidean geometry with striking implications for our own physical universe the book contains enough material for a one semester course in geometry at the sophomore to senior level as well as many exercises mostly of a non routine nature the instructor

may want to supplement them with routine exercises of his her own

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