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for many years this elementary treatise on advanced euclidean geometry has been the standard textbook in this area of classical mathematics no other book has covered the subject quite as well it explores the geometry of the triangle and the circle concentrating on extensions of euclidean theory and examining in detail many relatively recent theorems several hundred theorems and corollaries are formulated and proved completely numerous others remain unproved to be used by students as exercises the author makes liberal use of circular inversion the theory of pole and polar and many other modern and powerful geometrical tools throughout the book in particular the method of directed angles offers not only a powerful method of proof but also furnishes the shortest and most elegant form of statement for several common theorems this accessible text requires no more extensive preparation than high school geometry and trigonometry

tracing the formal development of euclidean geometry this text closely follows euclid s classic elements in addition to providing a historical perspective on plane geometry it covers related topics including non neutral euclidean geometry circles and regular polygons projective geometry symmetries inversions knots and links and informal topology includes 1 000 practice problems solutions available 2003 edition

this accessible approach features stereometric and planimetric proofs and elementary proofs employing only the simplest properties of the plane a short history of geometry precedes the systematic exposition 1961 edition

examines various attempts to prove euclid s parallel postulate by the greeks arabs and renaissance mathematicians it considers forerunners and founders such as saccheri lambert legendre w bolyai gauss others includes 181 diagrams

renowned for its lucid yet meticulous exposition this classic allows students to follow the development of non euclidean geometry from a fundamental analysis of the concept of parallelism to more advanced topics 1914 edition includes 133 figures

demonstrates relationships between different types of geometry provides excellent overview of the foundations and historical evolution of geometrical concepts exercises no solutions includes 98 illustrations

eight essays trace seminal ideas about the foundations of geometry that led to the development of einstein s general theory of relativity this is the only english language collection of these important papers some of which are extremely hard to find contributors include helmholtz klein clifford poincaré and cartan

lively guide by a prominent historian focuses on the role of euclid s elements in subsequent mathematical developments elementary algebra and plane geometry are sole prerequisites 80 drawings 1963 edition

fascinating accessible introduction to unusual mathematical system in which distance is not measured by straight lines illustrated topics include applications to urban geography and comparisons to euclidean geometry selected answers to problems

this introduction to euclidean geometry emphasizes transformations particularly isometries and similarities suitable for undergraduate courses it includes numerous examples many with detailed answers 1972 edition

this is the first volume to give a connected and rigorous account of euclidean geometry in the light of modern investigations although in its first stages euclidean geometry can be taught emperically and its propositions rightly assumed to follow consistently from the axioms critical examination for more than two thousand years

has disclosed many vaguenesses and unproved assumptions in the euclidean formation the value of this book lies in the fact that it derives the euclidean propositions from the axioms with the utmost rigor employing the mathematical discoveries of modern times and making the smallest number of assumptions as possible indispensable to the teacher of geometry this work should be of interest to every mathematician for the light it throws on the foundations of mathematics from back cover

this is a comprehensive two volumes text on plane and space geometry transformations and conics using a synthetic approach the first volume focuses on euclidean geometry of the plane and the second volume on circle measurement transformations space geometry conics the book is based on lecture notes from more than 30 courses which have been taught over the last 25 years using a synthetic approach it discusses topics in euclidean geometry ranging from the elementary axioms and their first consequences to the complex the famous theorems of pappus ptolemy euler steiner fermat morley etc through its coverage of a wealth of general and specialized subjects it provides a comprehensive account of the theory with chapters devoted to basic properties of simple planar and spatial shapes transformations of the plane and space and conic sections as a result of repeated exposure of the material to students it answers many frequently asked questions particular attention has been given to the didactic method the text is accompanied by a plethora of figures more than 2000 and exercises more than 1400 most of them with solutions or expanded hints each chapter also includes numerous references to alternative approaches and specialized literature the book is mainly addressed to students in mathematics physics engineering school teachers in these areas as well as amateurs and lovers of geometry offering a sound and self sufficient basis for the study of any possible problem in euclidean geometry the book can be used to support lectures to the most advanced level or for self study

one of the first college level texts for elementary courses in non euclidean geometry this volumeis geared toward students familiar with calculus topics include the fifth postulate hyperbolicplane geometry and trigonometry and elliptic plane geometry and trigonometry extensiveappendixes offer background information on euclidean geometry and numerous exercisesappear throughout the text reprint of the holt rinehart winston inc new york 1945 edition

based on classical principles this book is intended for a second course in euclidean geometry and can be used as a refresher each chapter covers a different aspect of euclidean geometry lists relevant theorems and corollaries and states and proves many propositions includes more than 200 problems hints and solutions 1968 edition

erudite and entertaining overview follows development of mathematics from ancient greeks to present topics include logic and mathematics the fundamental concept differential calculus probability theory much more exercises and problems

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