

Elementary Geometry 5th Edition

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this is a book on euclidean geometry that covers the standard material in a completely new way while also introducing a number of new topics that would be suitable as a junior senior level undergraduate textbook the author does not begin in the traditional manner with abstract geometric axioms instead he assumes the real numbers and begins his treatment by introducing such modern concepts as a metric space vector space notation and groups and thus lays a rigorous basis for geometry while at the same time giving the student tools that will be useful in other courses

geometric measure theory a beginner s guide fifth edition provides the framework readers need to understand the structure of a crystal a soap bubble cluster or a universe the book is essential to any student who wants to learn geometric measure theory and will appeal to researchers and mathematicians working in the field brevity clarity and scope make this classic book an excellent

introduction to more complex ideas from geometric measure theory and the calculus of variations for beginning graduate students and researchers morgan emphasizes geometry over proofs and technicalities providing a fast and efficient insight into many aspects of the subject with new coverage to this edition including topical coverage of the log convex density conjecture a major new theorem at the center of an area of mathematics that has exploded since its appearance in perelman s proof of the poincaré conjecture and new topical coverage of manifolds taking into account all recent research advances in theory and applications focuses on core geometry rather than proofs paving the way to fast and efficient insight into an extremely complex topic in geometric structures enables further study of more advanced topics and texts demonstrates in the simplest possible way how to relate concepts of geometric analysis by way of algebraic or topological techniques contains full topical coverage of the log convex density conjecture comprehensively updated throughout

the pan american scientific congresses ushered a new scientific era in latin america bringing together scientists engineers and medical researchers from both south and north america they facilitated the exchange of ideas between the two regions at the beginning of the twentieth century nobel prize thinkers such as albert michelson and others such as franz boas and elmer sperry were some of the participants the study describes the latest scientific advancements being diffused in these congresses as well as the factors affecting the adoption of such advancements rodrigo fernos teaches at the university of puerto rico rio piedras

the properties of regular solids exercise a fascination which often appeals strongly to the mathematically inclined whether they are professionals students or amateurs in this classic book professor coxeter explores these properties in easy stages introducing the reader to complex polyhedra a beautiful generalization of regular solids derived from complex numbers and unexpected relationships with concepts from various branches of mathematics magic squares frieze patterns kaleidoscopes cayley diagrams clifford surfaces crystallographic and non crystallographic groups kinematics spherical trigonometry and algebraic geometry in the latter half of the book these preliminary ideas are put together to describe a natural generalization of the five platonic solids this updated second edition contains a new chapter on almost regular polytopes with beautiful abstract art drawings new exercises and discussions have been added throughout the book including an introduction to hopf fibration and real representations for two complex polyhedra

geometry for naval architects is the essential guide to the principles of naval geometry formerly fragmented throughout various sources the topic is now presented in this comprehensive book that explains the history and specific applications of modern naval architecture mathematics and techniques including numerous examples applications and references to further enhance understanding with a natural four section organization traditional methods differential geometry computer methods and applications in naval architecture users will quickly progress from basic fundamentals to specific applications careful instruction and a wealth of practical applications

spare readers the extensive searches once necessary to understand the mathematical background of naval architecture and help them understand the meanings and uses of discipline specific computer programs explains the basics of geometry as applied to naval architecture with specific practical applications included throughout the book for real life insights presents traditional methods and computational techniques including matlab provides a wealth of examples in matlab and multisurf a computer aided design package for naval architects and engineers

this text presents the classical theory of conics in a modern form it includes many novel results that are not easily accessible elsewhere the approach combines synthetic and analytic methods to derive projective affine and metrical properties covering both euclidean and non euclidean geometries with more than two thousand years of history conic sections play a fundamental role in numerous fields of mathematics and physics with applications to mechanical engineering architecture astronomy design and computer graphics this text will be invaluable to undergraduate mathematics students those in adjacent fields of study and anyone with an interest in classical geometry augmented with more than three hundred fifty figures and photographs this innovative text will enhance your understanding of projective geometry linear algebra mechanics and differential geometry with careful exposition and many illustrative exercises

the universe of quadrics this text presents the theory of quadrics in a modern form it builds on the previously published book the universe of conics including many novel results that are not easily accessible elsewhere as in the conics book the approach combines synthetic and analytic methods to derive projective affine and metrical properties covering both euclidean and non euclidean geometries while the history of conics is more than two thousand years old the theory of quadrics began to develop approximately three hundred years ago quadrics play a fundamental role in numerous fields of mathematics and physics their applications ranging from mechanical engineering architecture astronomy and design to computer graphics this text will be invaluable to undergraduate and graduate mathematics students those in adjacent fields of study and anyone with a deeper interest in geometry complemented with about three hundred fifty figures and photographs this innovative text will enhance your understanding of projective geometry linear algebra mechanics and differential geometry with careful exposition and many illustrative exercises

reprint of the original first published in 1882 the antigonos publishing house specialises in the publication of reprints of historical books we make sure that these works are made available to the public in good condition in order to preserve their cultural heritage

guides readers through the development of geometry and basic proof writing using a historical approach to the topic in an effort to fully appreciate the logic and structure of geometric proofs revolutions of geometry places proofs into the context of geometry s history helping readers to understand that proof writing is crucial to the job of a mathematician written for students and educators of mathematics alike the book guides readers through the rich history and influential works from ancient times to the present behind the development of geometry as a result readers are successfully equipped with the necessary logic to develop a full understanding of geometric

theorems following a presentation of the geometry of ancient egypt babylon and china the author addresses mathematical philosophy and logic within the context of works by thales plato and aristotle next the mathematics of the classical greeks is discussed incorporating the teachings of pythagoras and his followers along with an overview of lower level geometry using euclid s elements subsequent chapters explore the work of archimedes viete s revolutionary contributions to algebra descartes merging of algebra and geometry to solve the pappus problem and desargues development of projective geometry the author also supplies an excursion into non euclidean geometry including the three hypotheses of saccheri and lambert and the near simultaneous discoveries of lobachevski and bolyai finally modern geometry is addressed within the study of manifolds and elliptic geometry inspired by riemann s work poncelet s return to projective geometry and klein s use of group theory to characterize different geometries the book promotes the belief that in order to learn how to write proofs one needs to read finished proofs studying both their logic and grammar each chapter features a concise introduction to the presented topic and chapter sections conclude with exercises that are designed to reinforce the material and provide readers with ample practice in writing proofs in addition the overall presentation of topics in the book is in chronological order helping readers appreciate the relevance of geometry within the historical development of mathematics well organized and clearly written revolutions of geometry is a valuable book for courses on modern geometry and the history of mathematics at the upper undergraduate level it is also a valuable reference for educators in the field of mathematics

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