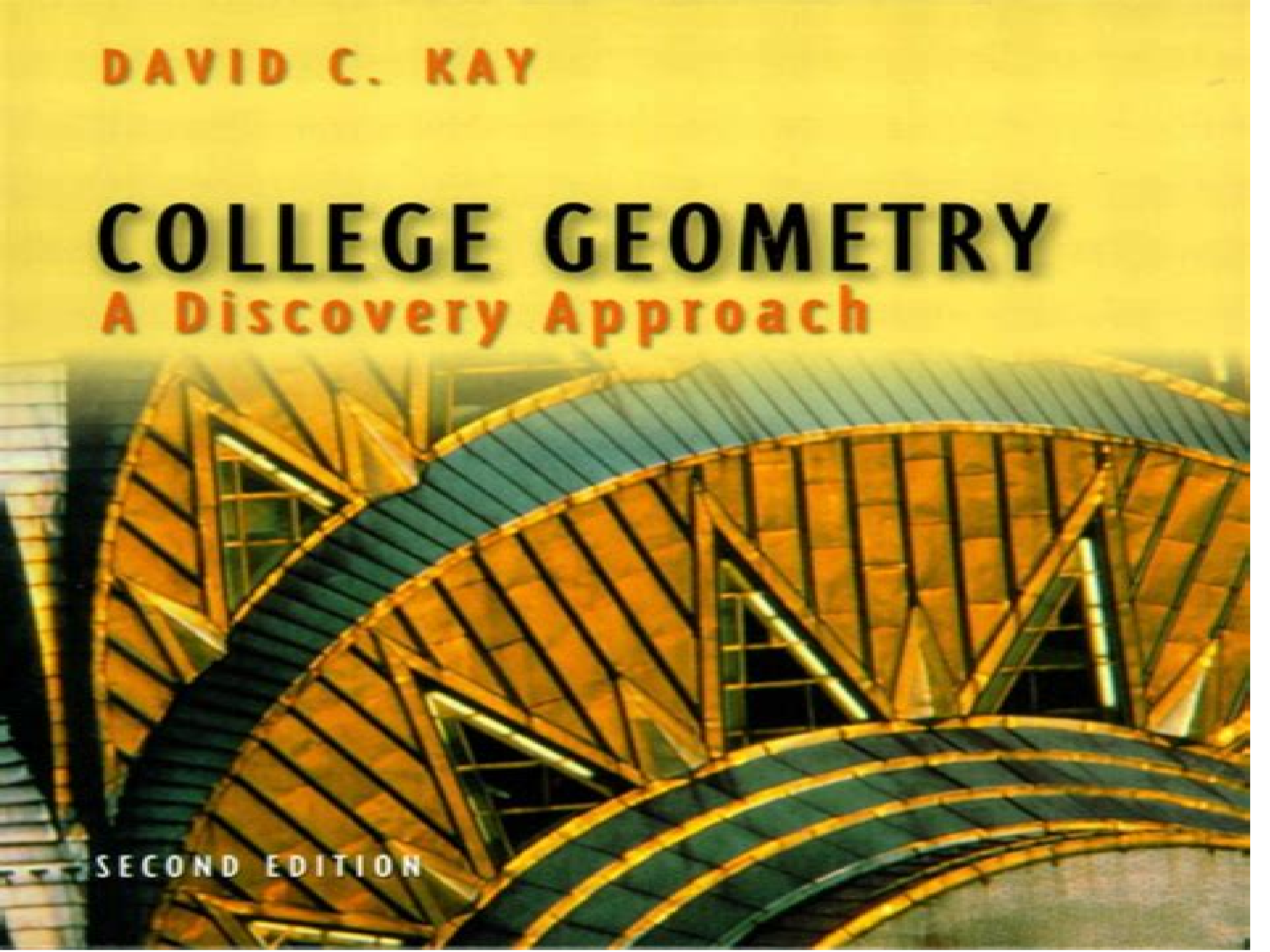


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SECOND EDITION



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Handbook of Mathematics for Engineers and Scientists Andrei D. Polyanin, Alexander V. Manzhirov, 2006-11-27 Covering the main fields of mathematics this handbook focuses on the methods used for obtaining solutions of various classes of mathematical equations that underlie the mathematical modeling of numerous phenomena and processes in science and technology The authors describe formulas methods equations and solutions that are frequently used in scientific and engineering applications and present classical as well as newer solution methods for various mathematical equations The book supplies numerous examples graphs figures and diagrams and contains many results in tabular form including finite sums and series and exact solutions of differential integral and functional equations

Euclidean and Transformational Geometry: A Deductive Inquiry Shlomo Libeskind, 2007-11-01

A Concise Handbook of Mathematics, Physics, and Engineering Sciences Andrei D. Polyanin, Alexei Chernoutsan, 2010-10-18 A Concise Handbook of Mathematics Physics and Engineering Sciences takes a practical approach to the basic notions formulas equations problems theorems methods and laws that most frequently occur in scientific and engineering applications and university education The authors pay special attention to issues that many engineers and students

Essential Concepts of Geometry (Second Edition) Man Yiu Kwong, 2019-08-01 This book is a self contained introduction to the fundamental and interesting topics of geometry The topics covered include the definitions and properties of 2D and 3D shapes the basic concepts and formulas of perimeter area and volume the Pick's formula the Cavalieri's principles the basic geometric transformations the concepts of tessellations the Euler's polyhedral formula and the methods of construction of regular polygons and regular polyhedra Complemented by diagrams pictures examples and exercises the materials covered are suitable for an introductory course on geometry and will appeal to school students teachers junior undergraduate students mathematics instructors or lecturers alike

Problem-Solving and Selected

Topics in Euclidean Geometry Sotirios E. Louridas, Michael Th. Rassias, 2014-07-08 Problem Solving and Selected Topics in Euclidean Geometry in the Spirit of the Mathematical Olympiads contains theorems which are of particular value for the solution of geometrical problems Emphasis is given in the discussion of a variety of methods which play a significant role for the solution of problems in Euclidean Geometry Before the complete solution of every problem a key idea is presented so that the reader will be able to provide the solution Applications of the basic geometrical methods which include analysis synthesis construction and proof are given Selected problems which have been given in mathematical olympiads or proposed in short lists in IMO s are discussed In addition a number of problems proposed by leading mathematicians in the subject are included here The book also contains new problems with their solutions The scope of the publication of the present book is to teach mathematical thinking through Geometry and to provide inspiration for both students and teachers to formulate positive conjectures and provide solutions

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