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Galileo's Muse Springer Science & Business Media
First published in 1926, this book contains the first volume of a three-volume English translation of the thirteen books of Euclid's Elements.
The Thirteen Books of Euclid's Elements. The Works of Archimedes Including The Method. On Conic Sections by Apollonius of Perga. Introduction to Arithmetic by Nicomachus of Gerasa Springer
Historian David E. Rowe captures the rich tapestry of mathematical creativity in this collection of essays from the “Years Ago” column of The Mathematical Intelligencer. With topics ranging from ancient Greek mathematics to modern relativistic cosmology, this collection conveys the impetus and spirit of Rowe’s various and many-faceted contributions to the history of mathematics. Centered on the Göttingen mathematical tradition, these stories illuminate important facets of mathematical activity often overlooked in other accounts. Six sections place the essays in chronological and thematic order, beginning with new introductions that contextualize each section. The essays that follow recount episodes relating to the section’s overall theme. All of the essays in this collection, with the exception of two, appeared over the course of more than 30 years in The Mathematical Intelligencer. Based largely on archival and primary sources, these vignettes offer unusual insights into behind-the-scenes events. Taken together, they aim to show how Göttingen managed to attract an extraordinary array of talented individuals, several of whom contributed to the development of a new mathematical culture during the first decades of the twentieth century.
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Among other things, Aaboe shows us how the Babylonians did calculations, how Euclid proved that there are infinitely many primes, how Ptolemy constructed a trigonometric table in his Almagest, and how Archimedes trisected the angle.
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The Thirteen Books of Euclid's Elements -- The Works of Archimedes, Including The Method -- On Conic Sections -- Introduction to Arithmetic Courier Corporation
There is an ever-growing interest in control problems today, con nected with the urgent problems of the effective use of natural resources, manpower, materials, and technology. When referring to the most important achievements of science and technology in the 20th Century, one usually mentions the splitting of the atom, the exploration of space, and computer engineering. Achievements in control theory seem less spectacular when viewed against this background, but the applications of control theory are playing an important role in the development of modern civilization, and there is every reason to believe that this role will be even more signifi cant in the future. Wherever there is active human participation, the problem arises of finding the best, or optimal, means of control. The demands of economics and technology have given birth to optimization problems which, in turn, have created new branches of mathematics. In the Forties, the investigation of problems of economics gave rise to a new branch of mathematical analysis called linear and convex program ming. At that time, problems of controlling flying vehicles and technolog ical processes of complex structures became important. A mathematical theory was formulated in the mid-Fifties known as optimal control theory. Here the maximum principle of L. S. Pontryagin played a pivotal role. Op timal control theory synthesized the concepts and methods of investigation

using the classical methods of the calculus of variations and the methods of contemporary mathematics, for which Soviet mathematicians made valuable contributions.

Essays on Mathematics and Its Historical Development Oxford University Press, USA

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The Thirteen Books of Euclid's Elements Red Wheel/Weiser

The Origins of Infinitesimal Calculus focuses on the evolution, development, and applications of infinitesimal calculus. The publication first ponders on Greek mathematics, transition to Western Europe, and some center of gravity determinations in the later 16th century. Discussions focus on the growth of kinematics in the West, latitude of forms, influence of Aristotle, axiomatization of Greek mathematics, theory of proportion and means, method of exhaustion, discovery method of Archimedes, and curves, normals, tangents, and curvature. The manuscript then examines infinitesimals and indivisibles in the early 17th century and further advances in France and Italy. Topics include the link between differential and integral processes, concept of tangent, first investigations of the cycloid, and arithmetization of integration methods. The book reviews the infinitesimal methods in England and Low Countries and rectification of arcs. The publication is a vital source of information for historians, mathematicians, and researchers interested in infinitesimal calculus.

Non-European Roots of Mathematics (Third Edition) Academic Press

Mathematical Perspectives: Essays on Mathematics and its Historical Development is a collection of 13 biographical essays on the historical advances of science. This collection is originally meant to comprise an issue of the journal Historia Mathematica in honor of Professor Kurt R. Biermann’s 60th birthday. This 12-chapter text includes essays on studies and commentaries on the problem of “figures of equal perimeter by various authors in antiquity, including Zenodorus, Theon, and Pappus. Other essays explore the comparison of the areas of polygons with equal perimeter; the concept of function; history of mathematics; the development of mathematical physics in France; and the history of Logicism and Formalism. The remaining chapters deal with essays on an early version of Gauss’ Disquisitiones Arithmeticae, ideal numbers, a mathematical-philosophilica theory of probability, and historical examples of problem of number sequence interpolation. This book will be of value to mathematicians, historians, and researchers.

The Göttingen Tradition and Beyond Springer Science & Business Media

Excerpt from Short, but Yet Plain Elements of Geometry: Shewing How by a Brief an Easie Method, Most of What Is Necessary and Useful in Euclid, Archimedes, Apollonius, and Other Excellent Geometricians, Both Ancient and Moder, May Be Understood I lhall only add, That I am again glad of this Opportunity to fbew the jufl Efteem I have of your Merit. And the equal Regard I have for your Friendlhip. I am. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at www.forgottenbooks.com This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in our edition. We do, however, repair the vast majority of imperfections successfully; any imperfections that remain are intentionally left to preserve the state of such historical works.

Geometry Infobase Publishing

Complete works of ancient geometer feature such topics as the famous problems of the ratio of the areas of a cylinder and an inscribed sphere; the properties of conoids, spheroids, and spirals; more.

A Richer Picture of Mathematics Princeton University Press

Mark Peterson makes an extraordinary claim in this fascinating book focused around the life and thought of Galileo: it was the mathematics of Renaissance arts, not Renaissance sciences, that became modern science. Galileo's Muse argues that painters, poets, musicians, and architects brought about a scientific revolution that eluded the philosopher-scientists of the day, steeped as they were in a medieval cosmos and its underlying philosophy. According to Peterson, the recovery of classical science owes much to the Renaissance artists who first turned to Greek sources for inspiration and instruction. Chapters devoted to their insights into mathematics, ranging from perspective in painting to tuning in music, are interspersed with chapters about Galileo's own life and work. Himself an artist turned scientist and an avid student of Hellenistic culture, Galileo pulled together the many threads of his artistic and classical education in designing unprecedented experiments to unlock the secrets of nature. In the last chapter, Peterson draws our attention to the Oratio de Mathematicae laudibus of 1627, delivered by one of Galileo's students. This document, Peterson argues, was penned in part by Galileo himself, as an expression of his understanding of the universality of mathematics in art and nature. It is "entirely Galilean in so many details that even if it is derivative, it must represent his thought," Peterson writes. An intellectual adventure, Galileo’s Muse offers surprising ideas that will capture the imagination of anyone—scientist, mathematician, history buff, lover of literature, or artist—who cares about the humanistic roots of modern science.

The Thirteen Books of Euclid's Elements. The Works of Archimedes Including The Method. Introduction to Arithmetic by Nicomachus MAA

The thirteen books of Euclid's Elements. [Translated by Sir Thomas Health] -- The works of archimedes, including the method. [Translated by Sir Thomas L. Health] -- On conic sections, by apollonius of Perga. [Translated by R. Catesby Taliaferro] -- Introduction to arithmetic, by Nichomachus of Gerasa. [Translated by Martin L. D'Ooge].

The Works of Archimedes Including the Method. On conic sections. Introduction to arithmetic Harvard University Press

The Thriteen Books of Euclid's Elements, translated by Sir Thomas L. Heath. The Works of Archimedes Including the Method, translated by Sir Thomas L. Heath. Conics by Apollonius of Perga, translated by R. Catesby Taliaferro. Introduction to Arithmetic, by Nicomachus of Gerasa, translated by Martin L. D'Ooge.

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The primary objective of the course presented here is orientation

for those interested in applying mathematics, but the course should also be of value or in using math to those interested in mathematical research and teaching ematics in some other professional context. The course should be suitable for college seniors and graduate students, as well as for college juniors who have had mathematics beyond the basic calculus sequence. Maturity is more significant than any formal prerequisite. The presentation involves a number of topics that are significant for applied mathematics but that normally do not appear in the curriculum or are depicted from an entirely different point of view. These topics include engineering simulations, the experience patterns of the exact sciences, the conceptual nature of pure mathematics and its relation to applied mathe matics, the historical development of mathematics, the associated conceptual aspects of the exact sciences, and the metaphysical implications of mathe matical scientific theories. We will associate topics in mathematics with areas of application. This presentation corresponds to a certain logical structure. But there is an enormous wealth of intellectual development available, and this permits considerable flexibility for the instructor in curricula and emphasis. The prime objective is to encourage the student to contact and utilize this rich heritage. Thus, the student's activity is critical, and it is also critical that this activity be precisely formulated and communicated.

The Works of Archimedes, Including The Method : On Conic Sections, by Apollonius of Perga : Introduction to Arithmetic, by Nichomachus of Gerasa Forgotten Books

Euclid was a mathematician from the Greek city of Alexandria who lived during the 4th and 3rd century B.C. and is often referred to as the "father of geometry." Within his foundational treatise "Elements," Euclid presents the results of earlier mathematicians and includes many of his own theories in a systematic, concise book that utilized a brief set of axioms and meticulous proofs to solidify his deductions. In addition to its easily referenced geometry, "Elements" also includes number theory and other mathematical considerations. For centuries, this work was a primary textbook of mathematics, containing the only framework for geometry known by mathematicians until the development of "non-Euclidian" geometry in the late 19th century. The extent to which Euclid's "Elements" is of his own original authorship or borrowed from previous scholars is unknown, however despite this fact it was his collation of these basic mathematical principles for which most of the world would come to the study of geometry. Today, Euclid's "Elements" is acknowledged as one of the most influential mathematical texts in history. This volume includes all thirteen books of Euclid's "Elements," is printed on premium acid-free paper, and follows the translation of Thomas Heath.

The 13 Books of Euclid's Elements, Works of Archimedes, On Conic Sections, Intro to Arithmetic

This ebook is a selective guide designed to help scholars and students of the ancient world find reliable sources of information by directing them to the best available scholarly materials in whatever form or format they appear from books, chapters, and journal articles to online archives, electronic data sets, and blogs. Written by a leading international authority on the subject, the ebook provides bibliographic information supported by direct recommendations about which sources to consult and editorial commentary to make it clear how the cited sources are interrelated. A reader will discover, for instance, the most reliable introductions and overviews to the topic, and the most important publications on various areas of scholarly interest within this topic. In classics, as in other disciplines, researchers at all levels are drowning in potentially useful scholarly information, and this guide has been created as a tool for cutting through that material to find the exact source you need. This ebook is just one of many articles from Oxford Bibliographies Online: Classics, a continuously updated and growing online resource designed to provide authoritative guidance through the scholarship and other materials relevant to the study of classics. Oxford Bibliographies Online covers most subject disciplines within the social science and humanities, for more information visit www.aboutobo.com.

Euclid, Archimedes, Apollonius of Perga, Nicomachus, V.11

The thirteen books of Euclid's Elements. [Translated by Sir Thomas Health] -- The works of archimedes, including the method. [Translated by Sir Thomas L. Health] -- On conic sections, by apollonius of Perga. [Translated by R. Catesby Taliaferro] -- Introduction to arithmetic, by Nichomachus of Gerasa. [Translated by Martin L. D'Ooge].

Optimal Control

Presents a survey of the history and evolution of the branch of mathematics labeled geometry, including useful applications and notable mathematicians in this area.

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