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Mathematics and Mechanics - The Interplay - Luigi Morino 2021-06-19

Mathematics plays an important role in mechanics and other human endeavours. Validating examples in this first volume include, for instance: the connection between the golden ratio (the "divine proportion" used by Phidias and many other artists and enshrined in Leonardo's Vitruvian Man, shown on the front cover), and the Fibonacci spiral (observable in botany, e.g., in the placement of sunflower seeds); is the coast of Tuscany infinitely long?; the equal-time free fall of a feather and a lead ball in a vacuum; a simple diagnostic for changing your car's shocks; the Kepler laws of the planets; the dynamics of the Sun-Earth-Moon system; the tides' mechanism; the laws of friction and a wheel rolling down a partially icy slope; and many more. The style is colloquial. The emphasis is on intuition - lengthy but intuitive proofs are preferred to simple non-intuitive ones. The mathematical/mechanical sophistication gradually increases, making the volume widely accessible. Intuition is not at the expense of rigor. Except for grammar-school material, every statement that is later used is rigorously proven. Guidelines that facilitate the reading of the book are presented. The interplay between mathematics and mechanics is presented within a historical context, to show that often mechanics stimulated mathematical developments - Newton comes to mind. Sometimes mathematics was introduced independently of its mechanics applications, such as the absolute calculus for Einstein's general theory of relativity. Bio-sketches of all the scientists encountered are included and show that many of them dealt with both mathematics and mechanics.

Calculus with Analytic Geometry - Charles Henry Edwards 1998

Adopted by Rowan/Salisbury Schools.

Calculus and Analytic Geometry: Single-variable calculus - Al Shenk 1988

Introduction to Applied Numerical Analysis - Richard W. Hamming 2012-01-01

"This book is appropriate for an applied numerical analysis course for upper-level undergraduate and graduate students as well as computer science students. Actual programming is not covered, but an extensive range of topics includes round-off and function evaluation, real zeros of a function, integration, ordinary differential equations, optimization, orthogonal functions, Fourier series, and much more. 1989 edition"--Provided by publisher.

Lectures on the Mathematical Method in Analytical Economics - Jacob T. Schwartz
2018-11-14

An early but still useful and frequently cited contribution to the science of mathematical economics, this volume is geared toward graduate students in the field. Prerequisites include familiarity with the basic theory of matrices and linear transformations and with elementary calculus. Author Jacob T. Schwartz begins his treatment with an exploration of the Leontief input-output model, which forms a general framework for subsequent material. An introductory treatment of price theory in the Leontief model is followed by an examination of the business-cycle theory, following ideas pioneered by Lloyd Metzler and John Maynard Keynes. In the final section, Schwartz applies the teachings of previous chapters to a critique of the general equilibrium approach devised by Léon Walras as the theory of supply and demand, and he synthesizes the notions of Walras and Keynes. 1961 edition.

Calculus with Analytic Geometry - Ron Larson 1998

This traditional text offers a balanced approach that combines the theoretical instruction of calculus with the best aspects of reform, including creative teaching and learning techniques such as the integration of technology, the use of real-life applications, and mathematical models. The Calculus with Analytic Geometry Alternate, 6/e, offers a late approach to trigonometry for those instructors who wish to introduce it later in their courses.

A History of Vector Analysis - Michael J. Crowe 1994-01-01

Prize-winning study traces the rise of the vector concept from the discovery of complex numbers through the systems of hypercomplex numbers to the final acceptance around 1910 of the modern system of vector analysis.

Calculus with Analytic Geometry - Robert Ellis 1982

Blast Vibration Analysis - G. A. Bollinger 2018-07-18

This volume focuses on the origin, transmission, and types of elastic waves in solid media, covering the physical laws involved in wave analysis and the mathematical methods for analyzing wave phenomena. 1971 edition.

Calculus - Tom M. Apostol 2019-04-26

An introduction to the Calculus, with an excellent balance between theory and technique. Integration is treated before differentiation--this is a departure from most modern texts, but it is historically correct, and it is the best way to establish the true connection between the integral and the derivative. Proofs of all the important theorems are given, generally preceded by geometric or intuitive discussion. This Second Edition introduces the mean-value theorems and their applications earlier in the text, incorporates a treatment of linear algebra, and contains many new and easier exercises. As in the first edition, an interesting historical introduction precedes each important new concept.

Analytic Geometry and Calculus (Classic Reprint) - Frederick S. Woods

2017-10-20

Excerpt from Analytic Geometry and Calculus The present work is a revision and abridgment of the authors' Course in Mathematics for Students of Engineering and Applied Science. The condensation of a two-volume work into a single volume has been made possible partly by the omission of some topics, but more especially by a rearrangement of subject matter and new methods of treatment. 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.

Engineering News - 1907

Elements of Calculus and Analytic Geometry - George Brinton Thomas 1989

Fourier Analysis on Groups - Walter Rudin 2017-04-19

Self-contained treatment by a master mathematical expositor ranges from introductory chapters on basic theorems of Fourier analysis and structure of locally compact Abelian groups to extensive appendixes on topology, topological groups, more. 1962 edition.

Calculus of One Variable - Joseph W. Kitchen 2020-01-15

Richly textured and versatile text characterizes real numbers as a complete, ordered field. Rigorous development of the calculus, plus thorough treatment of basic topics of limits and inequalities. 1968 edition.

APEX Calculus - Gregory Hartman 2015

APEX Calculus is a calculus textbook written for traditional college/university calculus courses. It has the look and feel of the calculus book you likely use right now (Stewart, Thomas & Finney, etc.). The explanations of new concepts is clear, written for someone who does not yet know calculus. Each section ends with an exercise set with ample problems to practice & test skills (odd answers are in the back).

Introduction to Calculus and Analysis II/1 - Richard Courant 1999-12-14

From the reviews: "...one of the best textbooks introducing several generations of mathematicians to higher mathematics. ... This excellent book is highly recommended both to instructors and students." --Acta Scientiarum

Mathematicarum, 1991

Books in Print - 1995

Statistical Independence in Probability, Analysis and Number - Mark Kac
2018-08-15

This concise monograph by a well-known mathematician shows how probability theory, in its simplest form, arises in a variety of contexts and in many different mathematical disciplines. 1959 edition.

Calculus of Several Variables - Serge Lang 2012-12-06

This new, revised edition covers all of the basic topics in calculus of several variables, including vectors, curves, functions of several variables, gradient, tangent plane, maxima and minima, potential functions, curve integrals, Green's theorem, multiple integrals, surface integrals, Stokes' theorem, and the inverse mapping theorem and its consequences. It includes many completely worked-out problems.

Commutative Algebra, Volume I - Oscar Zariski 2019-11-13

A precise, fundamental study of commutative algebra, this largely self-contained treatment is the first in a two-volume set. Intended for advanced undergraduates and graduate students in mathematics, its prerequisites are the rudiments of set theory and linear algebra, including matrices and determinants. The opening chapter develops introductory notions concerning groups, rings, fields, polynomial rings, and vector spaces. Subsequent chapters feature an exposition of field theory and classical material concerning ideals and modules in arbitrary commutative rings, including detailed studies of direct sum decompositions. The final two chapters explore Noetherian rings and Dedekind domains. This work prepares readers for the more advanced topics of Volume II, which include valuation theory, polynomial and power series rings, and local algebra.

Analytic Geometry and Calculus - Frederick S. Woods 2015-07-23

Excerpt from Analytic Geometry and Calculus The present work is a revision and abridgment of the authors' "Course in Mathematics for Students of Engineering and Applied Science." The condensation of a two-volume work into a single volume has been made possible partly by the omission of some topics, but more especially by a rearrangement of subject matter and new methods of treatment. Among the subjects omitted are determinants, much of the general theory of equations, the general equation of the conic sections, polars and diameters related to conies, center of curvature, evolutes, certain special methods of integration, complex numbers, and some types of differential equations. All these subjects, while interesting and important, can well be postponed to a later course, especially as their inclusion in the present course would mean the crowding out, or less thorough handling, of subjects which are more immediately important. The rearrangement of material is seen especially in the bringing together into the first part of the book of all methods for the graphical representation of functions of one variable, both algebraic and transcendental. This has the effect of devoting the first part of the book to analytic geometry of two dimensions, the analytic geometry of three dimensions being treated later when it is required for the study of functions of two variables. The transition to the calculus is made early through the discussion of slope and area (Chapter IX), the student being thus introduced in the first year of his course to the concepts of a derivative and a definite integral as the limit of a sum. The new methods of handling the subject matter will be recognized by the teacher in places too numerous to specify here. The articles on empirical equations, the remainder in Taylor's series, and approximate integration are new. 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.

Data Structures & Algorithm Analysis in C++ - Clifford A. Shaffer 2011-01-01

A comprehensive treatment focusing on the creation of efficient data structures and algorithms, this text explains how to select or design the data structure best suited to specific problems. It uses C++ as the programming language and is suitable for second-year data structure courses and computer science courses in algorithmic analysis.

Technical Calculus with Analytic Geometry - Peter Kuhfittig 2012-08-21

Written for today's technology student, TECHNICAL CALCULUS WITH ANALYTIC GEOMETRY prepares you for your future courses! With an emphasis on applications, this mathematics text helps you learn calculus skills that are particular to technology. Clear presentation of concepts, detailed examples, marginal annotations, and step-by-step procedures enhance your understanding of difficult concepts. Notations that are frequently encountered in technology are used throughout to help you prepare for further courses in your career.

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The Geometry of René Descartes - René Descartes 1925

The great work that founded analytical geometry. Includes the original French text, Descartes' own diagrams, and the definitive Smith-Latham translation.

"The greatest single step ever made in the progress of the exact sciences." -- John Stuart Mill.

Catalogue of high-school and college textbooks - Ginn and Company 1916

Analytical Mechanics of Gears - Earle Buckingham 1988-01-01

This volume provides a solid foundation for logical gear design practices and data. Topics include an analysis of conjugate gear-tooth action, nature of the contact, and resulting gear-tooth profiles of several types of gears, plus gear teeth in action. Indispensable guide for engineers concerned with tooth geometry, manufacturing accuracies, and general design. 1949 edition.

Analytical Conics - Barry Spain 2007-01-01

This concise text introduces students to analytical geometry, covering basic ideas and methods. Readily intelligible to any student with a sound mathematical background, it is designed both for undergraduates and for math majors. It will prove particularly valuable in preparing readers for more advanced treatments. The text begins with an overview of the analytical geometry of the straight line, circle, and the conics in their standard forms. It proceeds to discussions of translations and rotations of axes, and of the general equation of the second degree. The concept of the line at infinity is introduced, and the main properties of conics and pencils of conics are derived from the general equation. The fundamentals of cross-ratio, homographic correspondence, and line-coordinates are explored, including applications of the latter to focal properties. The final chapter provides a compact account of generalized homogeneous coordinates, and a helpful appendix presents solutions

to many of the examples.

University Calculus, Early Transcendentals, Single Variable - Joel Hass

2011-01-28

University Calculus, Early Transcendentals, Second Edition helps readers successfully generalize and apply the key ideas of calculus through clear and precise explanations, clean design, thoughtfully chosen examples, and superior exercise sets. This text offers the right mix of basic, conceptual, and challenging exercises, along with meaningful applications. This significant revision features more examples, more mid-level exercises, more figures, improved conceptual flow, and the best in technology for learning and teaching. This Single Variable volume consists of chapters 1--10 of the main text.

Calculus, Volume I, 2nd Ed One-variable Calculus, with an Introduction to Linear Algebra - Tom M. Apostol 2007

· Some Basic Concepts Of The Theory Of Sets · A Set Of Axioms For The Real Number System · Mathematical Induction, Summation Notation, And Related Topics · The Concepts Of The Integral Calculus · Some Applications Of Differentiation · Continuous Functions · Differential Calculus · The Relation Between Integration And Differentiation · The Logarithm, The Exponential, And The Inverse Trigonometric Functions · Polynomial Approximations To Functions · Introduction To Differential Equations · Complex Numbers · Sequences, Infinite Series, Improper Integrals · Sequences And Series Of Functions · Vector Algebra · Applications Of Vector Algebra To Analytic Geometry · Calculus Of Vector-Valued Functions · Linear Spaces · Linear Transformations And Matrices

Calculus - Stanley I. Grossman 2014-05-10

Calculus, Second Edition discusses the techniques and theorems of calculus. This edition introduces the sine and cosine functions, distributes ?-? material over several chapters, and includes a detailed account of analytic geometry and vector analysis. This book also discusses the equation of a straight line, trigonometric limit, derivative of a power function, mean value theorem, and fundamental theorems of calculus. The exponential and logarithmic functions, inverse trigonometric functions, linear and quadratic denominators, and centroid of a plane region are likewise elaborated. Other topics include the sequences of real numbers, dot product, arc length as a parameter, quadric surfaces, higher-order partial derivatives, and Green's theorem in the plane. This publication is a good source for students learning calculus.

Thomas' Calculus - Weir 2008

Foundations of Stochastic Analysis - M. M. Rao 2013-04-17

This volume considers fundamental theories and contrasts the natural interplay between real and abstract methods. No prior knowledge of probability is assumed. Numerous problems, most with hints. 1981 edition.

Calculus with Analytic Geometry - Richard H. Crowell 1968

This book introduces and develops the differential and integral calculus of functions of one variable.

Modern Calculus and Analytic Geometry - Richard A. Silverman 2014-04-15

A self-contained text for an introductory course, this volume places strong emphasis on physical applications. Key elements of differential equations and linear algebra are introduced early and are consistently referenced, all

theorems are proved using elementary methods, and numerous worked-out examples appear throughout. The highly readable text approaches calculus from the student's viewpoint and points out potential stumbling blocks before they develop. A collection of more than 1,600 problems ranges from exercise material to exploration of new points of theory – many of the answers are found at the end of the book; some of them worked out fully so that the entire process can be followed. This well-organized, unified text is copiously illustrated, amply cross-referenced, and fully indexed.

Elementary Theory & Application of Numerical Analysis - James Edward Miller
2011-01-01

This updated introduction to modern numerical analysis is a complete revision of a classic text originally written in Fortran but now featuring the programming language C++. It focuses on a relatively small number of basic concepts and techniques. Many exercises appear throughout the text, most with solutions. An extensive tutorial explains how to solve problems with C++.

Mathematics for Machine Learning - Marc Peter Deisenroth 2020-04-23

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Advanced Calculus - Lynn Harold Loomis 2014-02-26

An authorised reissue of the long out of print classic textbook, *Advanced Calculus* by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention *Differential and Integral Calculus* by R Courant, *Calculus* by T Apostol, *Calculus* by M Spivak,

and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

Commutative Algebra, Volume II - Oscar Zariski 2019-11-13

The second text in this two-book series extends the classical material of Volume I, which focuses on field theory and the ideal theory of Noetherian rings and Dedekind domains. The connection of Volume II's material to algebraic geometry is stressed throughout the presentation, making this book a practical introduction to some basic concepts and the arithmetical foundations of algebraic geometry. The opening chapter deals with properties of places and is followed by a chapter that explores the classical properties of polynomial and power series rings and their applications to algebraic geometry. The final chapter examines the theory of local rings, which provides the algebraic basis for the local study of algebraic and analytical varieties. Several helpful Appendixes conclude the text.

A Course in Mathematics - Frederick Shenstone Woods 2014-02

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