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An Introduction to Differential Equations and Their Applications Stanley J. Farlow 2012-10-23 This introductory text explores 1st- and 2nd-order differential equations, series solutions, the Laplace transform, difference equations, much more. Numerous figures, problems with solutions, notes. 1994 edition. Includes 268 figures and 23 tables.

Information Theory Robert B. Ash 2012-06-14 DIVAnalysis of channel models and proof of coding theorems; study of specific coding systems; and study of statistical properties of information sources. Sixty problems, with solutions. Advanced undergraduate to graduate level. /div

Challenging Problems in Algebra Alfred S. Posamentier 2012-05-04 Over 300 unusual problems, ranging from easy to difficult, involving equations and inequalities, Diophantine equations, number theory, quadratic equations, logarithms, more. Detailed solutions, as well as brief answers, for all problems are provided.

Science News-letter 1964

About Vectors Banesh Hoffmann 2012-05-24 No calculus needed, but this is not an elementary book. Introduces vectors, algebraic notation and basic ideas, vector algebra and scalars. Includes 386 exercises.

The Joy of X Steven Henry Strogatz 2012 A comprehensive tour of leading mathematical ideas by an award-winning professor and columnist for the New York Times Opinionator series demonstrates how math intersects with philosophy, science and other aspects of everyday life. By the author of The Calculus of Friendship. 50,000 first printing.

Calculus Refresher for Technical Men A. Albert Klaf 1956

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.

Recursive Analysis R. L. Goodstein 2013-01-23 This text by a master in the field covers recursive convergence, recursive and relative continuity, recursive and relative differentiability, the relative integral, elementary functions, and transfinite ordinals. 1961 edition.

Mathematics A. D. Aleksandrov 2012-05-07 Major survey offers comprehensive, coherent discussions of analytic geometry, algebra, differential equations, calculus of variations, functions of a complex variable, prime numbers, linear and non-Euclidean geometry, topology, functional analysis, more. 1963 edition.

The Mathematical Gazette 1958

Math for Programmers Paul Orland 2021-01-12 In Math for Programmers you'll explore important mathematical concepts through hands-on coding. Filled with graphics and more than 300 exercises and mini-projects, this book unlocks the door to interesting—and lucrative!—careers in some of today's hottest fields. As you tackle the basics of linear algebra, calculus, and machine learning, you'll master the key Python libraries used to turn them into real-world software applications. Summary To score a job in data science, machine learning, computer graphics, and cryptography, you need to bring strong math skills to the party. Math for Programmers teaches the math you need for these hot careers, concentrating on what you need to know as a developer. Filled with lots of helpful graphics and more than 200 exercises and mini-projects, this book unlocks the door to interesting—and lucrative!—careers in some of today's

hottest programming fields. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Skip the mathematical jargon: This one-of-a-kind book uses Python to teach the math you need to build games, simulations, 3D graphics, and machine learning algorithms. Discover how algebra and calculus come alive when you see them in code! About the book In Math for Programmers you'll explore important mathematical concepts through hands-on coding. Filled with graphics and more than 300 exercises and mini-projects, this book unlocks the door to interesting—and lucrative!—careers in some of today's hottest fields. As you tackle the basics of linear algebra, calculus, and machine learning, you'll master the key Python libraries used to turn them into real-world software applications. What's inside Vector geometry for computer graphics Matrices and linear transformations Core concepts from calculus Simulation and optimization Image and audio processing Machine learning algorithms for regression and classification About the reader For programmers with basic skills in algebra. About the author Paul Orland is a programmer, software entrepreneur, and math enthusiast. He is co-founder of Tachyus, a start-up building predictive analytics software for the energy industry. You can find him online at www.paulor.land. Table of Contents 1 Learning math with code PART I - VECTORS AND GRAPHICS 2 Drawing with 2D vectors 3 Ascending to the 3D world 4 Transforming vectors and graphics 5 Computing transformations with matrices 6 Generalizing to higher dimensions 7 Solving systems of linear equations PART 2 - CALCULUS AND PHYSICAL SIMULATION 8 Understanding rates of change 9 Simulating moving objects 10 Working with symbolic expressions 11 Simulating force fields 12 Optimizing a physical system 13 Analyzing sound waves with a Fourier series PART 3 - MACHINE LEARNING APPLICATIONS 14 Fitting functions to data 15 Classifying data with logistic regression 16 Training neural networks

Calculus Refresher A. A. Klaf 2012-06-08 Unique refresher covers important aspects of integral and differential calculus via 756 questions. Features constants, variables, functions, increments, derivatives, differentiation, more. A 50-page section applies calculus to engineering problems. Includes 566 problems, most with answers.

Revival: Philosophy and the Physicists (1937) Lizzie Susan Stebbing 2018-05-08 This book is written by a philosopher for other philosophers and for that section of the reading public who buy in large quantities and, no doubt, devour with great earnestness the popular books written by scientists for their enlightenment. We common readers, to adapt a phrase from Samuel Johnson, are fitted neither to criticize physical theories not to decide what precisely are their implications. We are dependent upon the scientists for an exposition of those developments which — so we find them proclaiming — have important and far-reaching consequences for philosophy. Unfortunately, however, our popular expositors do not always serve us very well. The two who are most widely read in this country are Sir Arthur Eddington and Sir James Jeans. They are not always reliable guides. Their influence has been considerable upon the reading public, upon theologians, and upon preachers; they have even misled philosopher who should have known better. Accordingly, it has seemed to me to be worth

while to examine in some detail the philosophical views that they have put forth and to criticize the grounds upon which these views are based.

Trigonometry Refresher A. Albert Klaf 2011-11-30 Covers the most important aspects of plane and spherical trigonometry. Discusses special problems in navigation, surveying, elasticity, architecture, and various fields of engineering. Includes 1,738 problems, many with solutions. 1946 edition. Features 494 figures.

Inductance Calculations Frederick W. Grover 2004-01-01 Hoping to simplify matters for engineers overwhelmed by inductance calculations, the author brings together an invaluable collection of formulas and tables. For virtually every type of inductor, Dr. Grover provides a single simple formula, together with tables from which essential numerical factors may be interpolated. Starting with a survey of general principles, the text explains circuits with straight filaments; parallel elements of equal length; mutual inductance of unequal parallel filaments and filaments inclined at an angle to each other; and inductance of single-layer coils on rectangular winding forms. Additional topics include the mutual inductance of coaxial circular filaments and of coaxial circular coils; self-inductance of circular coils of rectangular cross section; mutual inductance of solenoid and a coaxial circular filament and coaxial single-layer coils; single-layer coils on cylindrical winding forms; and special types of single-layer coil. 1946 ed.

Mathematics and the Physical World Morris Kline 2012-03-15 Stimulating account of development of mathematics from arithmetic, algebra, geometry and trigonometry, to calculus, differential equations, and non-Euclidean geometries. Also describes how math is used in optics, astronomy, and other phenomena.

Calculus: A Complete Introduction Hugh Neill 2013-05-31 Calculus: A Complete Introduction is the most comprehensive yet easy-to-use introduction to using calculus. Written by a leading expert, this book will help you if you are studying for an important exam or essay, or if you simply want to improve your knowledge. The book covers all areas of calculus, including functions, gradients, rates of change, differentiation, exponential and logarithmic functions and integration. Everything you will need to know is here in one book. Each chapter includes not only an explanation of the knowledge and skills you need, but also worked examples and test questions.

Advanced Trigonometry C. V. Durell 2012-11-20 This volume is a welcome resource for teachers seeking an undergraduate text on advanced trigonometry. Ideal for self-study, this book offers a variety of topics with problems and answers. 1930 edition. Includes 79 figures.

Functions and Graphs I. M. Gelfand 2013-04-09 This text demonstrates the fundamentals of graph theory. The 1st part employs simple functions to analyze basics; 2nd half deals with linear functions, quadratic trinomials, linear

fractional functions, power functions, rational functions. 1969 edition.

Matrix Theory Joel N. Franklin 2012-07-31 Mathematically rigorous introduction covers vector and matrix norms, the condition-number of a matrix, positive and irreducible matrices, much more. Only elementary algebra and calculus required. Includes problem-solving exercises. 1968 edition.

Space--time--matter Hermann Weyl 1922

Vector Spaces and Matrices Robert M. Thrall 2014-01-15 Students receive the benefits of axiom-based mathematical reasoning as well as a grasp of concrete formulations. Suitable as a primary or supplementary text for college-level courses in linear algebra. 1957 edition.

Trigonometry I.M. Gelfand 2012-12-06 In a sense, trigonometry sits at the center of high school mathematics. It originates in the study of geometry when we investigate the ratios of sides in similar right triangles, or when we look at the relationship between a chord of a circle and its arc. It leads to a much deeper study of periodic functions, and of the so-called transcendental functions, which cannot be described using finite algebraic processes. It also has many applications to physics, astronomy, and other branches of science. It is a very old subject. Many of the geometric results that we now state in trigonometric terms were given a purely geometric exposition by Euclid. Ptolemy, an early astronomer, began to go beyond Euclid, using the geometry of the time to construct what we now call tables of values of trigonometric functions. Trigonometry is an important introduction to calculus, where one stud ies what mathematicians call analytic properties of functions. One of the goals of this book is to prepare you for a course in calculus by directing your attention away from particular values of a function to a study of the function as an object in itself. This way of thinking is useful not just in calculus, but in many mathematical situations. So trigonometry is a part of pre-calculus, and is related to other pre-calculus topics, such as exponential and logarithmic functions, and complex numbers.

Lectures on Linear Algebra I. M. Gelfand 1989-01-01 Prominent Russian mathematician's concise, well-written exposition considers n-dimensional spaces, linear and bilinear forms, linear transformations, canonical form of an arbitrary linear transformation, and an introduction to tensors. While not designed as an introductory text, the book's well-chosen topics, brevity of presentation, and the author's reputation will recommend it to all students, teachers, and mathematicians working in this sector.

A Refresher Course in Mathematics F. J. Camm 2013-02-21 Readers wishing to extend their mathematical skills will find this volume a practical companion. Easy-to-follow explanations cover fractions, decimals, square roots, metric system, algebra, more. 195 figures. 1943 edition.

A Treatise on Plane and Advanced Trigonometry Ernest William 1856-1933 Hobson

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Group Theory W. R. Scott 2012-05-23 Here is clear, well-organized coverage of the most standard theorems, including isomorphism theorems, transformations and subgroups, direct sums, abelian groups, and more. This undergraduate-level text features more than 500 exercises.

The Thirteen Books of the Elements Euclid 2012-08-15 Volume 2 of 3-volume set containing complete English text of all 13 books of the Elements plus critical analysis of each definition, postulate and proposition. Vol. 2 includes Books 3-9: Circles, relationships, rectilineal figures.

The Thirteen Books of Euclid's Elements Euclid 1956-01-01 The definitive edition of one of the very greatest classics of all time--the full Euclid, encompassing almost 2500 years of mathematical and historical study. This unabridged republication of the original enlarged edition contains the complete English text of all 13 books of the ELEMENTS, plus analyses of each definition, postulate, and proposition.

Physics of Light and Optics (Black & White) Michael Ware 2020

Linear Algebra for Economists Fuad Aleskerov 2011-08-18 This textbook introduces students of economics to the fundamental notions and instruments in linear algebra. Linearity is used as a first approximation to many problems that are studied in different branches of science, including economics and other social sciences. Linear algebra is also the most suitable to teach students what proofs are and how to prove a statement. The proofs that are given in the text are relatively easy to understand and also endow the student with different ways of thinking in making proofs. Theorems for which no proofs are given in the book are illustrated via figures and examples. All notions are illustrated appealing to geometric intuition. The book provides a variety of economic examples using linear algebraic tools. It mainly addresses students in economics who need to build up skills in understanding mathematical reasoning. Students in mathematics and informatics may also be interested in learning about the use of mathematics in economics.

Fundamental Concepts of Algebra Bruce Elwyn Meserve 1982-01-01 Uncommonly

interesting introduction illuminates complexities of higher mathematics while offering a thorough understanding of elementary mathematics. Covers development of complex number system and elementary theories of numbers, polynomials and operations, determinants, matrices, constructions and graphical representations. Several exercises – without solutions.

Geometry: A Comprehensive Course Dan Pedoe 2013-04-02 Introduction to vector algebra in the plane; circles and coaxial systems; mappings of the Euclidean plane; similitudes, isometries, Moebius transformations, much more. Includes over 500 exercises.

Arithmetic Refresher A. A. Klaf 2012-06-08 These 937 most-asked questions deal with tax problems, interest and discount, time-payment, etc. Features 809 problems and answers. "More than just a refresher . . . contains a great number of items that are not just reminders but entirely new ideas. – Bookmarks.

Mathematics for Physicists Philippe Dennery 1996-08-14 Superb text provides math needed to understand today's more advanced topics in physics and engineering. Theory of functions of a complex variable, linear vector spaces, much more. Problems. 1967 edition.

Atomics and Nuclear Energy 1957

Concepts of Modern Mathematics Ian Stewart 2012-05-23 In this charming volume, a noted English mathematician uses humor and anecdote to illuminate the concepts of groups, sets, subsets, topology, Boolean algebra, and other mathematical subjects. 200 illustrations.

The Journal of the Aeronautical Society of India Aeronautical Society of India 1956

Heavenly Mathematics Glen Van Brummelen 2017-04-04 "Spherical trigonometry was at the heart of astronomy and ocean-going navigation for two millennia. The discipline was a mainstay of mathematics education for centuries, and it was a standard subject in high schools until the 1950s. Today, however, it is rarely taught. Heavenly Mathematics traces the rich history of this forgotten art, revealing how the cultures of classical Greece, medieval Islam, and the modern West used spherical trigonometry to chart the heavens and the Earth."--Jacket.