Calculus Made Easy

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Wavelets Made Easy

Calculus. For some of us, the word conjures up memories of ten-pound textbooks and visions of tedious abstract equations. And yet, in reality, calculus is fun and accessible, and surrounds us everywhere we go. In Everyday Calculus, Oscar Fernandez demonstrates that calculus can be used to explore practically any aspect of our lives, including the most effective number of hours to sleep and the fastest route to get to work. He also shows that calculus can be both useful—determining which seat at the theater

leads to the best viewing experience, for instance—and fascinating—exploring topics such as time travel and the age of the universe. Throughout, Fernandez presents straightforward concepts, and no prior mathematical knowledge is required. For advanced math fans, the mathematical derivations are included in the appendixes. The book features a new preface that alerts readers to new interactive online content, including demonstrations linked to specific figures in the book as well as an online supplement. Whether you're new to mathematics or already a curious math enthusiast, Everyday Calculus will convince even die-hard skeptics to view this area of math in a whole new way.

Calculus Made Easy

Clear instruction in derivatives, integrals, exponential functions, differential equations, and much more—made entertaining in the form of a fantasy novel. Covers all essential first-year calculus topics. Books in the Easy Way Series are ideal students self-help supplements. They offer valuable overviews of course work and extra help with difficult subject areas.

Calculus for the Ambitious

This book is for instructors who think that most calculus textbooks are too long. In writing the book, James Stewart asked himself: What is essential for a three-semester calculus course for scientists and engineers? ESSENTIAL CALCULUS: EARLY TRANSCENDENTALS, Second Edition, offers a concise approach to teaching calculus that focuses on major concepts, and supports those concepts with precise definitions, patient explanations, and carefully graded problems. The book is only 900 pages--two-thirds the size of Stewart's other calculus texts, and yet it contains almost all of the same topics. The author achieved this relative brevity

primarily by condensing the exposition and by putting some of the features on the book's website, www.StewartCalculus.com. Despite the more compact size, the book has a modern flavor, covering technology and incorporating material to promote conceptual understanding, though not as prominently as in Stewart's other books. ESSENTIAL CALCULUS: EARLY TRANSCENDENTALS features the same attention to detail, eye for innovation, and meticulous accuracy that have made Stewart's textbooks the best-selling calculus texts in the world. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Calculus II For Dummies

This book is about tensor analysis. It consists of 169 pages. The language and method used in presenting the ideas and techniques of tensors make it very suitable as a textbook or as a reference for an introductory course on tensor algebra and calculus or as a guide for self-studying and learning.

The Calculus Primer

Calculus is the basis of all advanced science and math. But it can be very intimidating, especially if you're learning it for the first time! If finding derivatives or understanding integrals has you stumped, this book can guide you through it. This indispensable resource offers hundreds of practice exercises and covers all the key concepts of calculus, including: Limits of a function Derivatives of a function Monomials and polynomials Calculating maxima and minima Logarithmic differentials Integrals Finding the volume of irregularly shaped objects By breaking down challenging concepts and presenting clear explanations, you'll solidify your knowledge base--and face calculus without fear!

Advanced Algebra and Calculus Made Simple

This book explains the nature and computation of mathematical wavelets, which provide a framework and methods for the analysis and the synthesis of signals, images, and other arrays of data. The material presented here addresses the au dience of engineers, financiers, scientists, and students looking for explanations of wavelets at the undergraduate level. It requires only a working knowledge or memories of a first course in linear algebra and calculus. The first part of the book answers the following two questions: What are wavelets? Wavelets extend Fourier analysis. How are wavelets computed? Fast transforms compute them. To show the practical significance of wavelets, the book also provides transitions into several applications: analysis (detection of crashes, edges, or other events), compression (reduction of storage), smoothing (attenuation of noise), and syn thesis (reconstruction after compression or other modification). Such applications include one-dimensional signals (sounds or other time-series), two-dimensional arrays (pictures or maps), and three-dimensional data (spatial diffusion). The ap plications demonstrated here do not constitute recipes for real implementations, but aim only at clarifying and strengthening the understanding of the mathematics of wavelets.

Elementary Calculus

Comprehensive but concise, this introduction to differential and integral calculus covers all the topics usually included in a first course. The straightforward development places less emphasis on mathematical rigor, and the informal manner of presentation sets students at ease. Many carefully worked-out examples illuminate the text, in addition to numerous diagrams, problems, and answers. Bearing the needs of beginners constantly in mind, the treatment

covers all the basic concepts of calculus: functions, derivatives, differentiation of algebraic and transcendental functions, partial differentiation, indeterminate forms, general and special methods of integration, the definite integral, partial integration, and other fundamentals. Ample exercises permit students to test their grasp of subjects before moving forward, making this volume appropriate not only for classroom use but also for review and home study.

Change and Motion

Calculus Made Easy is a book on infinitesimal calculus originally published in 1910 by Silvanus P. Thompson, considered a classic and elegant introduction to the subject. The original text continues to be available as of 2008 from Macmillan and Co., but a 1998 update by Martin Gardner is available from St. Martin's Press which provides an introduction; three preliminary chapters explaining functions, limits, and derivatives; an appendix of recreational calculus problems; and notes for modern readers. Gardner changes "fifth form boys" to the more American sounding (and gender neutral) "high school students," updates many now obsolescent mathematical notations or terms, and uses American decimal dollars and cents in currency examples.

Heaviside's Operational Calculus Made Easy

How to Enjoy Calculus

Calculus Without Tears

This text begins with the essentials, advancing to applications and studies of physical disciplines, including classical and irreversible

thermodynamics, electrodynamics, and the theory of gauge fields. Geared toward advanced undergraduates and graduate students, it develops most of the theory and requires only a familiarity with upper-division algebra and mathematical analysis. "Essential." — SciTech Book News. 1985 edition.

Calculus Made Easy

Essential Calculus: Early Transcendentals

The Everything Guide to Calculus 1

Introducing calculus at the basic level, this text covers hyperreal numbers and hyperreal line, continuous functions, integral and differential calculus, fundamental theorem, infinite sequences and series, infinite polynomials, more. 1979 edition.

Calculus Made Easy

Topics include applications of the derivative, sequences and series, the integral and continuous variates, discrete distributions, hypothesis testing, functions of several variables, and regression and correlation. 1970 edition. Includes 201 figures and 36 tables.

Advanced Calculus

Calculus For Dummies, 2nd Edition (9781119293491) was previously published as Calculus For Dummies, 2nd Edition (9781118791295). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. Slay the

calculus monster with this user-friendly guide Calculus For Dummies, 2nd Edition makes calculus manageable—even if you're one of the many students who sweat at the thought of it. By breaking down differentiation and integration into digestible concepts, this guide helps you build a stronger foundation with a solid understanding of the big ideas at work. This user-friendly math book leads you step-by-step through each concept, operation, and solution, explaining the "how" and "why" in plain English instead of math-speak. Through relevant instruction and practical examples, you'll soon learn that real-life calculus isn't nearly the monster it's made out to be. Calculus is a required course for many college majors, and for students without a strong math foundation, it can be a real barrier to graduation. Breaking that barrier down means recognizing calculus for what it is—simply a tool for studying the ways in which variables interact. It's the logical extension of the algebra, geometry, and trigonometry you've already taken, and Calculus For Dummies, 2nd Edition proves that if you can master those classes, you can tackle calculus and win. Includes foundations in algebra, trigonometry, and pre-calculus concepts Explores sequences, series, and graphing common functions Instructs you how to approximate area with integration Features things to remember, things to forget, and things you can't get away with Stop fearing calculus, and learn to embrace the challenge. With this comprehensive study guide, you'll gain the skills and confidence that make all the difference. Calculus For Dummies, 2nd Edition provides a roadmap for success, and the backup you need to get there.

Everyday Calculus

Quick Calculus 2nd Edition A Self-Teaching Guide Calculus is essential for understanding subjects ranging from physics and chemistry to economics and ecology. Nevertheless, countless

students and others who need quantitative skills limit their futures by avoiding this subject like the plague. Maybe that's why the first edition of this self-teaching guide sold over 250,000 copies. Quick Calculus, Second Edition continues to teach the elementary techniques of differential and integral calculus quickly and painlessly. Your "calculus anxiety" will rapidly disappear as you work at your own pace on a series of carefully selected work problems. Each correct answer to a work problem leads to new material, while an incorrect response is followed by additional explanations and reviews. This updated edition incorporates the use of calculators and features more applications and examples. ".makes it possible for a person to delve into the mystery of calculus without being mystified." --Physics Teacher

Applied Exterior Calculus

Best known as the longtime writer of the Mathematical Games column for Scientific American—which introduced generations of readers to the joys of recreational mathematics—Martin Gardner has for decades pursued a parallel career as a devastatingly effective debunker of what he once famously dubbed "fads and fallacies in the name of science." It is mainly in this latter role that he is onstage in this collection of choice essays. When You Were a Tadpole and I Was a Fish takes aim at a gallery of amusing targets, ranging from Ann Coulter's qualifications as an evolutionary biologist to the logical fallacies of precognition and extrasensory perception, from Santa Claus to The Wizard of Oz, from mutilated chessboards to the little-known "one-poem poet" Langdon Smith (the original author of this volume's title line). The writings assembled here fall naturally into seven broad categories: Science, Bogus Science, Mathematics, Logic, Literature, Religion and Philosophy, and Politics. Under each heading, Gardner displays an awesome level of erudition combined with a wicked sense of humor.

Calculus Made Easy

Mathematics for the Million

Calculus Made Easy is originally published in the year of 1910. This edition is the second edition published in 1914 with enlarged text and extra considerable number of worked examples and exercises. Calculus Made Easy by Silvanus Thompson provides a very-simplest introduction to those beautiful methods which are generally called by the terrifying names of the differentia.

Tensor Calculus Made Simple

Take the FEAR OUT of Business Calculus Business Calculus Demystified clarifies the concepts and processes of calculus and demonstrates their applications to the workplace. Best-selling math author Rhonda Huettenmueller uses the same combination of winning step-by-step teaching techniques and real-world business and mathematical examples that have succeeded with tens of thousands of college students, regardless of their math experience or affinity for the subject. With Business Calculus Demystified, you learn at your own pace. You get explanations that make differentiation and integration -- the main concepts of calculus -- understandable and interesting. This unique self-teaching guide reinforces learning, builds your confidence and skill, and continuously demonstrates your mastery of topics with a wealth of practice problems and detailed solutions throughout, multiple-choice quizzes at the end of each chapter, and a "final exam" that tests your total understanding of business calculus. Learn business calculus for the real world! This self-teaching course conquers confusion with clarity and ease. Get ready to: Get a solid foundation right from the start with a review of algebra Master one idea per

section -- develop complete, comfortable understanding of a topic before proceeding to the next Find a well-explained definition of the derivative and its properties; instantaneous rates of change; the power, product, quotient, and chain rules; and layering different formulas Learn methods for maximizing revenue and profit minimizing cost and solving other optimizing problems See how to use calculus to sketch graphs Understand implicit differentiation, rational functions, exponents, and logarithm functions -- learn how to use log properties to simplify differentiation Painlessly learn integration formulas and techniques and applications of the integral Take a "final exam" and grade it yourself! Who says business calculus has to be boring? Business Calculus Demystified is a lively and entertaining way to master this essential math subject!

Calculus and Statistics

Quick Calculus

Calculus Made Easy by Silvanus P. Thompson and Martin Gardner has long been the most popular calculus primer, and this major revision of the classic math text makes the subject at hand still more comprehensible to readers of all levels. With a new introduction, three new chapters, modernized language and methods throughout, and an appendix of challenging and enjoyable practice problems, Calculus Made Easy has been thoroughly updated for the modern reader.

Calculus Made Easy

How to Ace Calculus

Explains mathematics from counting to calculus in the light of man's changing social achievements

Functional Calculus

Introduces the reader to the main ideas of mathematics, and painlessly demonstrates how they are expressed in symbols while helping to overcome the fear of math and begin to appreciate the science that Einstein called the poetry of logical ideas.

Integral Calculus Made Easy

Written by three gifted-and funny-teachers, How to Ace Calculus provides humorous and readable explanations of the key topics of calculus without the technical details and fine print that would be found in a more formal text. Capturing the tone of students exchanging ideas among themselves, this unique guide also explains how calculus is taught, how to get the best teachers, what to study, and what is likely to be on exams-all the tricks of the trade that will make learning the material of first-semester calculus a piece of cake. Funny, irreverent, and flexible, How to Ace Calculus shows why learning calculus can be not only a mind-expanding experience but also fantastic fun.

Calculus of Variations

Math for the Frightened

A short introduction perfect for any 16 to 18 year old about to begin studies in mathematics.

Business Calculus Demystified

Calculus the Easy Way

Fresh, lively text serves as a modern introduction to the subject, with applications to the mechanics of systems with a finite number of degrees of freedom. Ideal for math and physics students.

Differential Calculus Made Easy

Calculus Made Easy 2nd Edition

Mathematical Modeling

Calculus Made Easy

The first volume of a revolutionary new approach to learning calculus. Calculus Without Tears starts with computational calculus, which is not difficult, and provides a way for computing solutions to differential equations from the start. Calculus Without Tears is motivated by formulating and solving representative problems in physics and engineering.

When You Were a Tadpole and I Was a Fish

Almost every year, a new book on mathematical modeling is published, so, why another? The answer springs directly from the fact that it is very rare to find a book that covers modeling with all types of differential equations in one volume. Until now. Mathematical Modeling: Models, Analysis and Applications covers

modeling with all kinds of differential equations, namely ordinary, partial, delay, and stochastic. The book also contains a chapter on discrete modeling, consisting of differential equations, making it a complete textbook on this important skill needed for the study of science, engineering, and social sciences. More than just a textbook, this how-to guide presents tools for mathematical modeling and analysis. It offers a wide-ranging overview of mathematical ideas and techniques that provide a number of effective approaches to problem solving. Topics covered include spatial, delayed, and stochastic modeling. The text provides real-life examples of discrete and continuous mathematical modeling scenarios. MATLAB® and Mathematica® are incorporated throughout the text. The examples and exercises in each chapter can be used as problems in a project. Since mathematical modeling involves a diverse range of skills and tools, the author focuses on techniques that will be of particular interest to engineers, scientists, and others who use models of discrete and continuous systems. He gives students a foundation for understanding and using the mathematics that is the basis of computers, and therefore a foundation for success in engineering and science streams.

Calculus Made Easy: Being a Very-simplest Introduction to Those Beautiful Methods of Reckoning which are Generally Called by the Terrifying Names of the Differential Calculus and the Integral Calculus

Calculus For Dummies

Infinitesimal Calculus

Integral Calculus Made Easy XI and XII

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Romance
Science & Math
Science Fiction & Fantasy
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