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We want to give you the practice you need on the ACT McGraw-Hill's 10 ACT Practice Tests helps you gauge what the test measures, how it's structured, and how to budget your time in each section. Written by the founder and faculty of Advantage Education, one of America's most respected providers of school-based test-prep classes, this book provides you with the

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intensive ACT practice that will help your scores improve from each test to the next. You'll be able to sharpen your skills, boost your confidence, reduce your stress-and to do your very best on test day. 10 complete sample ACT exams, with full explanations for every answer 10 sample writing prompts for the optional ACT essay portion Scoring Worksheets to help you calculate your total score for every test Expert guidance in prepping students for the ACT More practice and extra help online ACT is a registered trademark of ACT, Inc., which was not

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With a fresh geometric approach that incorporates more than 250 illustrations, this textbook sets itself apart from all others in advanced calculus. Besides the classical capstones--the change of variables formula, implicit and inverse function theorems, the integral theorems of Gauss and Stokes--the text treats other important topics in differential analysis, such as Morse's lemma and the Poincaré lemma. The ideas behind most topics

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can be understood with just two or three variables. The book incorporates modern computational tools to give visualization real power. Using 2D and 3D graphics, the book offers new insights into fundamental elements of the calculus of differentiable maps. The geometric theme continues with an analysis of the physical meaning of the divergence and the curl at a level of detail not found in other advanced calculus books. This is a textbook for undergraduates and graduate students in mathematics, the physical sciences, and

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economics. Prerequisites are an introduction to linear algebra and multivariable calculus. There is enough material for a year-long course on advanced calculus and for a variety of semester courses--including topics in geometry. The measured pace of the book, with its extensive examples and illustrations, make it especially suitable for independent study.

An elementary introduction to polynomial continuation.

Advanced Mathematics for Engineering Students Solving Polynomial Systems Using Continuation

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***With Applications to Physics, Biology,
Chemistry, and Engineering***

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Advanced Calculus Pearson Education

India Advanced Calculus Pearson College Division

*The Fifth Edition of this leading text offers
substantial training in vectors and matrices,
vector analysis, and partial differential equations.*

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Vectors are introduced at the outset and serve at many points to indicate geometrical and physical significance of mathematical relations. Numerical methods are touched upon at various points, because of their practical value and the insights they give about theory. Vectors and Matrices; Differential Calculus of Functions of Several Variables; Vector Differential Calculus; Integral Calculus of Functions of Several Variables; Vector Integral Calculus; Two-Dimensional Theory; Three-Dimensional Theory and Applications; Infinite Series; Fourier Series and Orthogonal Functions; Functions of a Complex Variable; Ordinary

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Differential Equations; Partial Differential Equations For all readers interested in advanced calculus.

Advanced Calculus: Theory and Practice, Second Edition, expands on the material covered in elementary calculus and presents this material in a rigorous manner. The text improves students' problem-solving and proof-writing skills, familiarizes them with the historical development of calculus concepts, and helps them understand the connections among different topics. The book explains how various topics in calculus may seem unrelated but in reality have common roots.

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Emphasizing historical perspectives, the text gives students a glimpse into the development of calculus and its ideas from the age of Newton and Leibniz to the twentieth century. Nearly 300 examples lead to important theorems.

Part 1: Chapters 1-17

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College Physics for AP® Courses

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contingencies, risk theory, credibility theory, multi-state models, and an introduction to modern mathematical finance. New edition restructures the material to fit into modern computational methods and provides several spreadsheet examples throughout. Covers the syllabus for the Institute of Actuaries subject CT5, Contingencies Includes new chapters covering stochastic investments returns, universal life insurance. Elements of option pricing and the Black-Scholes formula will be introduced.

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The only Advanced Placement test preparation guide that delivers 75 years of proven Kaplan experience and features exclusive strategies, practice, and review to help students ace the AP Calculus AB & BC exam! Students spend the school year preparing for the AP Calculus AB & BC test. Now it ' s time to reap the rewards: money-saving college credit, advanced placement, or an admissions edge. However, achieving a top score on the AP Calculus AB & BC exam requires more than knowing the material—students need to get

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comfortable with the test format itself, prepare for pitfalls, and arm themselves with foolproof strategies. That ' s where the Kaplan plan has the clear advantage. Kaplan's AP Calculus AB & BC 2016 offers many essential and unique features to help improve test scores, including:

- * Eight full-length practice tests, including two diagnostic tests to target areas for score improvement
- * Detailed answer explanations
- * Expert video tutorials
- * Tips and strategies for scoring higher from expert AP Calculus AB & BC teachers and students who got a perfect 5

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on the exam * Targeted review of the most up-to-date content, including any information about test changes and key information that is specific to the AP Calculus AB & BC exam

Kaplan's AP Calculus AB & BC 2016 authors Tamara Lefcourt Ruby, James Sellers, Lisa Korf, Jeremy Van Horn, and Mike Munn have many years of experience teaching calculus as well as other math courses. Their expertise has helped make this and other books the best that Kaplan has to offer in AP test prep. Kaplan's AP Calculus AB & BC 2016 provides students

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with everything they need to improve their scores—guaranteed. Kaplan's Higher Score guarantee provides security that no other test preparation guide on the market can match. Kaplan has helped more than three million students to prepare for standardized tests. We invest more than \$4.5 million annually in research and support for our products. We know that our test-taking techniques and strategies work and our materials are completely up-to-date. Kaplan's AP Calculus AB & BC 2016 is the must-have preparation

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tool for every student looking to do better on the AP Calculus AB & BC test!

Includes Part 1, Number 1: Books and Pamphlets, Including Serials and Contributions to Periodicals (January - June)

The Essential Toolbox

A Modern Approach to Classical Theorems of Advanced Calculus

Book Catalog of the Library and Information Services Division: Author-title-series indexes
Catalog of Copyright Entries. Third Series
Theory and Practice

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This book uses elementary versions of modern methods found in sophisticated mathematics to discuss portions of "advanced calculus" in which the subtlety of the concepts and methods makes rigor difficult to attain at an elementary level.

Advanced Mathematics for Engineering Students: The Essential Toolbox provides a concise treatment for applied mathematics. Derived from two semester advanced mathematics courses at the author's university, the book delivers the mathematical foundation needed in an engineering program of study. Other treatments typically provide a thorough

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but somewhat complicated presentation where students do not appreciate the application. This book focuses on the development of tools to solve most types of mathematical problems that arise in engineering – a “toolbox” for the engineer. It provides an important foundation but goes one step further and demonstrates the practical use of new technology for applied analysis with commercial software packages (e.g., algebraic, numerical and statistical). Delivers a focused and concise treatment on the underlying theory and direct application of mathematical methods so that the reader has a collection of

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important mathematical tools that are easily understood and ready for application as a practicing engineer The book material has been derived from class-tested courses presented over many years in applied mathematics for engineering students (all problem sets and exam questions given for the course(s) are included along with a solution manual) Provides fundamental theory for applied mathematics while also introducing the application of commercial software packages as modern tools for engineering application, including: EXCEL (statistical analysis); MAPLE (symbolic and numeric computing

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environment); and COMSOL (finite element solver for ordinary and partial differential equations) **Advanced Calculus of Several Variables provides a conceptual treatment of multivariable calculus. This book emphasizes the interplay of geometry, analysis through linear algebra, and approximation of nonlinear mappings by linear ones. The classical applications and computational methods that are responsible for much of the interest and importance of calculus are also considered. This text is organized into six chapters. Chapter I deals with linear algebra and geometry of Euclidean n -space R^n . The**

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multivariable differential calculus is treated in Chapters II and III, while multivariable integral calculus is covered in Chapters IV and V. The last chapter is devoted to venerable problems of the calculus of variations. This publication is intended for students who have completed a standard introductory calculus sequence.

Statistical Methods for Psychology

Calculus

Maps and atlases

Advanced Calculus

Fundamentals of Actuarial Mathematics

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This undergraduate textbook is based on lectures given by the author on the differential and integral calculus of functions of several real variables. The book has a modern approach and includes topics such as:

- The p -norms on vector space and their equivalence
- The Weierstrass and Stone-Weierstrass approximation theorems
- The differential as a linear functional; Jacobians, Hessians, and Taylor's theorem in several variables
- The Implicit Function Theorem for a system of equations, proved via Banach's Fixed Point Theorem
- Applications to Ordinary Differential Equations
- Line integrals and an introduction to surface integrals

This book features numerous examples, detailed proofs, as

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well as exercises at the end of sections. Many of the exercises have detailed solutions, making the book suitable for self-study. Several Real Variables will be useful for undergraduate students in mathematics who have completed first courses in linear algebra and analysis of one real variable.

Kaplan's AP Calculus AB Prep Plus 2018-2019 is completely restructured and aligned with the current AP exam, giving you concise review of the most-tested content to quickly build your skills and confidence. With bite-sized, test-like practice sets and customizable study plans, our guide fits your schedule. We're so confident that AP Calculus AB Prep Plus offers the

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guidance you need that we guarantee it: After studying with our online resources and book, you'll score higher on the AP exam—or you'll get your money back. To access your online resources, go to kaptest.com/booksonline and follow the directions. You'll need your book handy to complete the process. Personalized Prep. Realistic Practice. Three full-length Kaplan practice exams and an online test scoring tool to convert your raw score into a 1–5 scaled score Pre- and post-quizzes in each chapter so you can monitor your progress Customizable study plans tailored to your individual goals and prep time More than 400 practice questions with detailed answer explanations

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Online quizzes and workshops for additional practice
Focused content review on the essential concepts to help you make the most of your study time
Test-taking strategies designed specifically for AP Calculus Expert Guidance
We know the test—our AP experts make sure our practice questions and study materials are true to the exam
We know students—every explanation is written to help you learn, and our tips on the exam structure and question formats will help you avoid surprises on Test Day
We invented test prep—Kaplan (www.kaptest.com) has been helping students for 80 years, and more than 95% of our students get into their top-choice schools

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STATISTICAL METHODS FOR PSYCHOLOGY surveys the statistical techniques commonly used in the behavioral and social sciences, particularly psychology and education. To help students gain a better understanding of the specific statistical hypothesis tests that are covered throughout the text, author David Howell emphasizes conceptual understanding. This Eighth Edition continues to focus students on two key themes that are the cornerstones of this book's success: the importance of looking at the data before beginning a hypothesis test, and the importance of knowing the relationship between the statistical test in use and the theoretical questions being asked by the

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experiment. New and expanded topics--reflecting the evolving realm of statistical methods--include effect size, meta-analysis, and treatment of missing data. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Field and Wave Electromagnetics

A Differential Forms Approach

Books in Print Supplement

The British National Bibliography

Several Real Variables

This book presents a unified view of calculus in

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which theory and practice reinforces each other. It is about the theory and applications of derivatives (mostly partial), integrals, (mostly multiple or improper), and infinite series (mostly of functions rather than of numbers), at a deeper level than is found in the standard calculus books. Chapter topics cover: Setting the Stage, Differential Calculus, The Implicit Function Theorem and Its Applications, Integral Calculus, Line and Surface Integrals—Vector Analysis, Infinite Series, Functions Defined by Series and Integrals, and Fourier Series. For individuals with

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a sound knowledge of the mechanics of one-variable calculus and an acquaintance with linear algebra.

Publisher Description

Advanced Calculus is intended as a text for courses that furnish the backbone of the student's undergraduate education in mathematical analysis. The goal is to rigorously present the fundamental concepts within the context of illuminating examples and stimulating exercises. This book is self-contained and starts with the creation of basic tools using the

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completeness axiom. The continuity, differentiability, integrability, and power series representation properties of functions of a single variable are established. The next few chapters describe the topological and metric properties of Euclidean space. These are the basis of a rigorous treatment of differential calculus (including the Implicit Function Theorem and Lagrange Multipliers) for mappings between Euclidean spaces and integration for functions of several real variables. Special attention has been paid to the motivation for proofs. Selected

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topics, such as the Picard Existence Theorem for differential equations, have been included in such a way that selections may be made while preserving a fluid presentation of the essential material. Supplemented with numerous exercises, Advanced Calculus is a perfect book for undergraduate students of analysis.

Combined Answer Book for Calculus, Third and Fourth Editions

A Geometric View

Revised

The Publishers' Trade List Annual

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Discrete Mathematics with Applications

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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

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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

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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

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(principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

Known for its accessible, precise approach, Epp's DISCRETE MATHEMATICS WITH APPLICATIONS, 5th Edition, introduces discrete mathematics with clarity and precision. Coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought. Students learn to think abstractly as they study the ideas of logic and proof. While learning about logic circuits and computer addition,

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algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that ideas of discrete mathematics underlie and are essential to today's science and technology. The author's emphasis on reasoning provides a foundation for computer science and upper-level mathematics courses. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Third Edition

AP Calculus AB Prep Plus 2018-2019

Calculus on Manifolds

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3 Practice Tests + Study Plans + Targeted

Review & Practice + Online

A Course in Financial Calculus

This book is a high-level introduction to vector calculus based solidly on differential forms. Informal but sophisticated, it is geometrically and physically intuitive yet mathematically rigorous. It offers remarkably diverse applications, physical and mathematical, and provides a firm foundation for further studies.

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Demonstrating analytical and numerical techniques for attacking problems in the application of mathematics, this well-organized, clearly written text presents the logical relationship and fundamental notations of analysis. Buck discusses analysis not solely as a tool, but as a subject in its own right. This skill-building volume familiarizes students with the language, concepts, and standard theorems of analysis, preparing them to

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read the mathematical literature on their own. The text revisits certain portions of elementary calculus and gives a systematic, modern approach to the differential and integral calculus of functions and transformations in several variables, including an introduction to the theory of differential forms. The material is structured to benefit those students whose interests lean toward either research in mathematics or its

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applications.

This textbook is aimed at newcomers to nonlinear dynamics and chaos, especially students taking a first course in the subject. The presentation stresses analytical methods, concrete examples, and geometric intuition. The theory is developed systematically, starting with first-order differential equations and their bifurcations, followed by phase plane analysis, limit cycles and their bifurcations, and

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culminating with the Lorenz equations, chaos, iterated maps, period doubling, renormalization, fractals, and strange attractors.

Books in Print

Advanced Calculus of Several Variables
Books and Pamphlets, Including Serials
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Series

The College Physics for AP(R) Courses text is

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designed to engage students in their exploration of physics and help them apply these concepts to the Advanced Placement (R) test. This book is Learning List-approved for AP (R) Physics courses. The text and images in this book are grayscale.

Nonlinear Dynamics and Chaos

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