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Artificial Intelligence is going to war. Intelligent weapon systems are here today, and many more are on the way tomorrow. Already, they're reshaping conflict--from the chaos of battle, with pilotless drones, robot tanks and unmanned submersibles, to the headquarters far from the action, where generals and politicians use technology to weigh up what to do. AI changes how we fight, and even how likely it is that we will. In battle, warbots will be faster, more agile and more deadly than today's crewed weapons. New tactics and concepts will emerge, with spoofing and swarming to fool and over-whelm enemies. Strategies are changing too. When will an intelligent machine escalate, and how can it be deterred? Can robots predict the future? And what happens to the 'art of war' as machines themselves become creative? Autonomous warfare makes many people uneasy. An international campaign against 'killer robots' hopes to ban AI from conflict. But the genie is out--AI weapons are too useful for states to outlaw. Still, crafting sensible rules for warbots is possible. This fascinating book shows how it might be done.

Treatise on Analysis, Volume 10–VII provides information pertinent to the fundamental aspects of linear functional equations. This book discusses the problems dealing with functional equations of scalar or of vectors. Comprised of one chapter, this volume begins with a description and study of the primary concepts and tools that have prompted the progress in the study of linear partial differential equations. This text then explains the importance of the integral operators. The reader is also introduced to integral operators that operate not only on vector function, but also on sections of vector bundles. This book discusses as well the applications of the differential operators to spectral theory. This book is a valuable resource for mathematicians.

Designed for the three-semester engineering calculus course, CALCULUS: EARLY TRANSCENDENTAL FUNCTIONS, Sixth Edition, continues to offer instructors and students innovative teaching and learning resources. The Larson team always has two main objectives for text revisions: to develop precise, readable materials for students that clearly define and demonstrate concepts and rules of calculus; and to design comprehensive teaching resources for instructors that employ proven pedagogical techniques and save time. The Larson/Edwards Calculus program offers a solution to address the needs of any calculus course and any level of calculus student. Every edition from the first to the sixth of CALCULUS: EARLY TRANSCENDENTAL FUNCTIONS has made the mastery of traditional calculus skills a priority, while embracing the best features of new technology and, when appropriate, calculus reform ideas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A New Morality from Science

CliffsQuickReview course guides cover the essentials of your toughest subjects. Get a firm grip on core concepts and key material, and test your new-found knowledge with review questions. Whether you're new to limits, derivatives, and integrals or just brushing up on your knowledge of the subject, CliffsQuickReview Calculus can help. This guide covers calculus topics such as limits at infinity, differential rules, and integration by parts. You'll also tackle other concepts, including Differentiation of inverse trigonometric functions Distance, velocity, and acceleration Volumes of solids with known cross sections Extreme value theorem Concavity and points of inflection CliffsQuickReview Calculus acts as a supplement to your other learning materials. Use this reference in any way that fits your personal style for study and review — you decide what works best with your needs. You can flip through the book until you find what you're looking for — it's organized to gradually build on key concepts. Here are just a few other ways you can search for topics: Use the free Pocket Guide full of essential information. Get a glimpse of what you'll gain from a chapter by reading through the Chapter Check-In at the beginning of each chapter. Use the Chapter Checkout at the end of each chapter to gauge your grasp of the important information you need to know. Test your knowledge more completely in the CQR Review and look for additional sources of information in the CQR Resource Center. Tap the glossary to find key terms fast. With titles available for all the most popular high school and college courses, CliffsQuickReview guides are comprehensive resources that can help you get the best possible grades.

Patrick Spread introduces a radically new theory of the functioning of society, based on his own experience and observations as a working economist. Firmly refuting the established economic model, the author argues that needs and interest are dictated by situation, choice being confined to what is relevant to situation. Economic exchange takes place in bargaining sets constrained by situation, rather than the universal markets of economic theory.

This brief edition of Applied Calculus comprises Chapters 1–7 of the complete text plus two sections on differential equations. Designed for the one- or two-semester applied or business calculus course, this text uses intriguing real-world applications to engage students' interest and show them the practical side of calculus. Many applications are financial or business related, but many applications in this text cover general-interest topics as well, including the growing population of Africa, the composition of the Supreme Court, water shortage, the fastest pitch in baseball, and pollution and the depletion of natural resources. The Fourth Edition maintains the hallmark features that have made Brief Applied Calculus so popular: contemporary and interesting applications; careful and effective use of technology, including integrated calculator coverage that is optional; constant pedagogical reinforcement through section summaries, chapter summaries, carefully annotated examples, and extra practice problems; and a variety of exercises and assignment options including exercise sets, projects, and essays. Contemporary and Interesting Applications often use real, sourced data from a

wide range of fields including: athletics, biomedical sciences, environmental sciences, management science and business, personal finance and management, social and behavioral sciences, and topics of general interest. Real-world examples are identified by a globe icon. Optional Graphing Calculator Explorations and Exercises explore new topics, carry out otherwise messy calculations, or show the limitations and pitfalls of technology. To allow for optional use of the graphing calculator, the Calculator Explorations are boxed and exercises that require a graphing calculator are identified by icon. Spreadsheet Explorations are included in the first seven chapters of the text for those who prefer Excel or other spreadsheet technology. The spreadsheets referenced in the text can also be downloaded from the text's web site. Unique Section Summaries briefly state essential formulas and key concepts and help students prepare for tests and quizzes. Chapter Summary with Hints and Suggestions review key concepts of a chapter with references to specific review exercises. This feature is included at the end of each chapter. The Hints and Suggestions features unify the concepts of the chapter, give specific reminders, and reference problems in the review exercises suitable for a practice test. Extra Practice Problems are provided after selected worked-out examples, where students can use a little extra practice. Students are given the full solution to these problems at the end of the section. Exercise sets provide numerous assignment options for instructors, allowing them to customize homework to their course and student population. The exercise set begins with basic practice and increases in difficulty. Application exercises are clearly labeled with general and specific titles to make it easier for instructors to select relevant exercises for assignments. New! Conceptual Exercises and Explorations and Excursions have been added at reviewers' requests, to offer a more rounded view into the student's understanding of a topic. The Conceptual Exercises will encourage students to think 'outside the box,' expanding on and examining, their grasp of the mathematics behind the drill and application exercises. The underlying concepts of calculus become the focus. Projects and Essays are now included on the textbook website and CD-ROM to provide opportunities for collaborative work, as well as critical thinking and writing exercises. Cumulative Review Exercises at the end of selected chapters give students an easy way to review and reinforce previously learned concepts and skills.

Includes Common Core standards practice in PARCC format - Beginning, middle, and end of year benchmark tests with performance tasks - Year-end performance assessment task - Student record forms - Print and digital intervention resources correlated to Common Core Standards.

Calculus Reform. Or, as many would prefer, calculus renewal. These are terms that, for better or worse, have become a part of the vocabulary in mathematics departments across the country. The movement to change the nature of the calculus course at the undergraduate and secondary levels has sparked discussion and controversy in ways as diverse as the actual changes. Such interactions range from "coffee pot conversations" to university curriculum committee agendas to special sessions on calculus renewal at regional and national conferences. But what is the significance of these activities? Where have we been and where are we going with calculus and, more importantly, the entire scope of undergraduate mathematics education? In April 1996, I received a fellowship from the American Educational Research Association (AERA) and the National Science Foundation (NSF). This fellowship afforded me the opportunity to work in residence at NSF on a number of evaluation projects, including the national impact of the calculus reform movement since 1988. That project resulted in countless communications with the mathematics community and others about the status of calculus as a course in isolation and as a significant player in the overall undergraduate mathematics and science experience for students (and faculty). While at NSF (and through a second NSF grant received while at the American Association for Higher Education), I also was part of an evaluation project for the Institution-wide Reform (IR) program.

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 Rn. The 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.

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0321795911 / 9780321795915 Trigonometry

A richly-illustrated, full-color introduction to deep learning that offers visual and conceptual explanations instead of equations. You'll learn how to use key deep learning algorithms without the need for complex math. Ever since computers began beating us at chess, they've been getting better at a wide range of human activities, from writing songs and generating news articles to helping doctors provide healthcare. Deep learning is the source of many of these breakthroughs, and its remarkable ability to find patterns hiding in data has made it the fastest growing field in artificial intelligence (AI). Digital assistants on our phones use deep learning to understand and respond intelligently to voice commands; automotive systems use it to safely navigate road hazards; online platforms use it to deliver personalized suggestions for movies and books - the possibilities are endless. Deep Learning: A Visual Approach is for anyone who wants to understand this fascinating field in depth, but without any of the advanced math and programming usually required to grasp its internals. If you want to know how these tools work, and use them yourself, the answers are all within these pages. And, if you're ready to write your own programs, there are also plenty of supplemental Python notebooks in the accompanying Github repository to get you going. The book's conversational style, extensive color illustrations, illuminating analogies, and real-world examples expertly explain the key concepts in deep learning, including: • How text generators create novel stories and articles • How deep learning systems learn to play and win at human games • How image classification systems identify objects or people in a photo • How to think about probabilities in a way that's useful to everyday life • How to use the machine learning techniques that form the core of modern AI Intellectual adventurers of all kinds can use the powerful ideas covered in Deep Learning: A Visual Approach to build intelligent systems that help us better understand the world and everyone who lives in it. It's the future of AI, and this book allows you to fully envision it. Full Color Illustrations

An international relations classic that reveals the nature of Chinese foreign policy in the late-Maoist years.

The New Middle East critically examines the Arab popular uprisings of 2011-12.

The calculus of finite differences is here treated thoroughly and clearly by one of the leading American experts in the field of numerical analysis and computation. The theory is carefully developed and applied to illustrative examples, and each chapter is followed by a set of helpful exercises. The book is especially designed for the use of actuarial students, statisticians, applied mathematicians, and any scientists forced to seek numerical solutions. It presupposes only a knowledge of algebra, analytic geometry, trigonometry, and elementary calculus. The object is definitely practical, for while numerical calculus is based on the concepts of pure mathematics, it is recognized that the worker must produce a numerical result. Originally published in 1949. The Princeton Legacy Library uses the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905.

Showing the limitations of chaos, catastrophe, and complexity theories, Rich applies the crisis theory approach to biological and social evolution and to the problems of our era.

From preeminent math personality and author of The Joy of x, a brilliant and endlessly appealing explanation of calculus - how it works and why it makes our lives immeasurably better. Without calculus, we wouldn't have cell phones, TV, GPS, or ultrasound. We wouldn't have unraveled DNA or dis-covered Neptune or figured out how to put 5,000 songs in your pocket. Though many of us were scared away from this essential, engrossing subject in high school and college, Steven Strogatz's brilliantly creative, down-to-earth history shows that calculus is not about complexity; it's about simplicity. It harnesses an unreal number--infinity--to tackle real-world problems, breaking them down into easier ones and then reassembling the answers into solutions that feel miraculous. Infinite Powers recounts how calculus tantalized and thrilled its inventors, starting with its first glimmers in ancient Greece and bringing us right up to the discovery of gravitational waves (a phenomenon predicted by calculus). Strogatz reveals how this form of math rose to the challenges of each age: how to determine the area of a circle with only sand and a stick; how to explain why Mars goes "backwards" some-times; how to make electricity with magnets; how to ensure your rocket doesn't miss the moon; how to turn the tide in the fight against AIDS. As Stro-gatz proves, calculus is truly the language of the universe. By unveiling the principles of that language, Infinite Powers makes us marvel at the world anew.

This unprecedented collection of 27,000 quotations is the most comprehensive and carefully researched of its kind, covering all fields of science and mathematics. With this vast compendium you can readily conceptualize and embrace the written images of scientists, laymen, politicians, novelists, playwrights, and poets about humankind's scientific achievements. Approximately 9000 high-quality entries have been added to this new edition to provide a rich selection of quotations for the student, the educator, and the scientist who would like to introduce a presentation with a relevant quota-tion that provides perspective and historical background on his subject. Gaither's Dictionary of Scientific Quotations, Second Edition, provides the finest reference source of science quotations for all audiences. The new edition adds greater depth to the number of quotations in the various themat-ic arrangements and also provides new thematic categories.

Contains solutions to the odd-numbered problems from the end-of-section exercises and Chapter Review Tests. Solutions are given for the full version of the student text. (Student Solution Manual, Brief features Chapters 1-7 of the full text.)

With the same design and feature sets as the market leading Precalculus, 8/e, this addition to the Larson Precalculus series provides both students and instructors with sound, consistently structured explanations of the mathematical concepts. Designed for a two-term course, this text contains the features that have made Precalculus a complete solution for both students and instructors: interesting applications, cutting-edge design, and innova-tive technology combined with an abundance of carefully written exercises. In addition to a brief algebra review and the core precalculus topics, PRE-CALCULUS WITH LIMITS covers analytic geometry in three dimensions and introduces concepts covered in calculus. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

A primer in ethics focusing on ultimate aims in living as proposed throughout philosophic history. Preliminary chapters cover the relation between ethics and science, religion, and psychology, as well as the challenge of relativism and determinism. The central section explores the ethical theories of hedonism, from the Greeks to the Utilitarians; self-realization, both of the individual and of our humanness, naturalism, including the Stoics and Transcendentalists; evolutionism as presented by both Darwin and Spencer; the ethic of duty of Immanuel Kant; religious systems including Judaism, Christianity, Islam, and Buddhism; virtue ethics in traditional and feminist forms; and existentialism from Nietzsche to Sartre. At various points, key concepts are introduced such as egoism and altruism, hard and soft determinism, deontology vs. teleology, and act and rule approaches to ethics. In addition, the 'standard of reasonableness' is discussed as a means of evaluating the ethical options.

This resource provides a brief introduction to Excel and specialized, step-by-step instructions on how to use Excel to explore calculus concepts.