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Differential and Integral Calculus Theory and Cases - Carlos Polanco 2020-08-05
Differential and Integral Calculus - Theory and Cases is a complete textbook designed to cover basic calculus at introductory college and undergraduate levels. Chapters provide information about calculus fundamentals and concepts including real numbers, series, functions, limits, continuity, differentiation, antidifferentiation (integration) and sequences. Readers will find a concise and clear study of calculus topics, giving them a solid foundation of mathematical analysis using calculus. The knowledge and concepts presented in this book will equip students with the knowledge to immediately practice the learned calculus theory in practical situations encountered at advanced levels. Key Features: - Complete coverage of basic calculus, including differentiation and integration - Easy to read presentation suitable for students - Information about functions and maps - Case studies and exercises for practical learning, with solutions - Case studies and exercises for practical learning, with solutions - References for further reading
Postmodern Portfolio Theory - James Ming Chen 2016-07-26
This survey of portfolio theory, from its modern origins through more sophisticated, “postmodern” incarnations, evaluates portfolio risk according to the first four moments of any statistical distribution: mean, variance, skewness, and excess kurtosis. In pursuit of financial models that more accurately describe abnormal markets and investor psychology, this book bifurcates beta on either side of mean returns. It then evaluates this traditional risk measure according to its relative volatility and correlation components. After specifying a four-moment capital asset pricing model, this book devotes special attention to measures of market risk in global banking regulation. Despite the deficiencies of modern portfolio theory, contemporary finance continues to rest on mean-variance optimization and the two-moment capital asset pricing model. The term postmodern portfolio theory captures many of the advances in financial learning since the original articulation of modern portfolio theory. A comprehensive approach to financial risk management must address all aspects of portfolio theory, from the beautiful symmetries of modern portfolio theory to the disturbing behavioral insights and the vastly expanded mathematical arsenal of the postmodern critique. Mastery of postmodern portfolio theory’s quantitative tools and behavioral insights holds the key to the efficient frontier of risk management.
Calculus - Jon Rogawski 2008-06-23
This new text presents calculus with solid mathematical precision but with an everyday sensibility that puts the main concepts in clear terms. It is rigorous without being inaccessible and clear without being too informal it has the perfect balance for instructors and their students.
Multivariable Calculus: Early Transcendentals - Jon Rogawski 2007-06-22
Organized to support an "early transcendentals"

approach to the multivariable section of the course, this version of Rogawski's highly anticipated text presents calculus with solid mathematical precision but with an everyday sensibility that puts the main concepts in clear terms. It is rigorous without being inaccessible and clear without being too informal--it has the perfect balance for instructors and their students.

Conduction Heat Transfer - Paul J. Schneider 1955

A guide for the novice illustrator to using pen and ink, including choosing pens, keeping a sketchbook, trying different techniques, and developing a personal style.

A First Course in Mathematical Analysis - J. C. Burkill 1978-12-14

This course is intended for students who have acquired a working knowledge of the calculus and are ready for a more systematic treatment which also brings in other limiting processes, such as the summation of infinite series and the expansion of trigonometric functions as power series.

Numerical Methods with VBA Programming - James Hiestand 2008-12-26

Numerical Methods with VBA Programming provides a unique and unified treatment of numerical methods and VBA computer programming, topics that naturally support one another within the study of engineering and science. This engaging text incorporates real-world scenarios to motivate technical material, helping students understand and retain difficult and key concepts. Such examples include comparing a two-point boundary value problem to determining when you should leave for the airport to catch a scheduled flight. Numerical examples are accompanied by closed-form solutions to demonstrate their correctness. Within the programming sections, tips are included that go beyond language basics to make programming more accessible for students. A unique section suggest ways in which the starting values for non-linear equations may be estimated. Flow charts for many of the numerical techniques discussed provide general guidance to students without revealing all of the details. Useful appendices provide summaries of Excel and VBA commands, Excel functions accessible in VBA, basics of differentiation, and more!

Mathematica by Example - Martha L. Abell 2021-06-01

Mathematica by Example, Sixth Edition is an essential resource for the Mathematica user, providing step-by-step instructions on achieving results from this powerful software tool. The book fully accounts for the changes to functionality and visualization capabilities and accomodates the full array of new extensions in the types of data and problems that Mathematica can immediately handle, including cloud services and systems, geographic and geometric computation, dynamic visualization, interactive applications and other improvements. It is an ideal text for scientific students, researchers, and aspiring programmers seeking further understanding of Mathematica. Written by seasoned practitioners with a view to practical implementation and problem-solving, the book's pedagogy is delivered clearly and without jargon using representative biological, physical and engineering problems. Code is provided on an ancillary website to support the use of Mathematica across diverse applications and subject areas. Provides clear organization, integrated topic coverage, and accessible explanations Includes step-by-step instructions for the most popular implementations Contains new applications, exercises and examples from a variety of fields, including biology, physics and engineering Supported by online Mathematica code derived from examples in the book

Multivariable Calculus (Paper) - Jon Rogawski 2007-06-22

The multivariable version of Rogawski's new text presents calculus with solid mathematical precision but with an everyday sensibility that puts the main concepts in clear terms. It is rigorous without being inaccessible and clear without being too informal--it has the perfect balance for instructors and their students.

The Penny Cyclopaedia of the Society for the Diffusion of Useful Knowledge - 1842

The Penny Cyclopaedia of the Society for the Diffusion of Useful Knowledge - Society for the Diffusion of Useful Knowledge 1842

Discovering Mathematics with Maple - R.J. Stroeker 2012-12-06

This unusual introduction to Maple shows readers how Maple or any other computer algebra system fits naturally into a mathematically oriented work environment. Designed for mathematicians, engineers, econometricians, and other scientists, this book shows how computer algebra can enhance their theoretical work. A CD-ROM contains all the Maple worksheets presented in the book.

Computational Techniques for the Summation of Series - Anthony Sofo 2012-12-06

"This book collects in one volume the author's considerable results in the area of the summation of series and their representation in closed form, and details the techniques by which they have been obtained... the calculations are given in plenty of detail, and closely related work which has appeared in a variety of places is conveniently collected together." --The Australian Mathematical Society Gazette

Mathematical Methods for Physics and Engineering - K. F. Riley 2006-03-13

The third edition of this highly acclaimed undergraduate textbook is suitable for teaching all the mathematics for an undergraduate course in any of the physical sciences. As well as lucid descriptions of all the topics and many worked examples, it contains over 800 exercises. New stand-alone chapters give a systematic account of the 'special functions' of physical science, cover an extended range of practical applications of complex variables, and give an introduction to quantum operators. Further tabulations, of relevance in statistics and numerical integration, have been added. In this edition, half of the exercises are provided with hints and answers and, in a separate manual available to both students and their teachers, complete worked solutions. The remaining exercises have no hints, answers or worked solutions and can be used for unaided homework; full solutions are available to instructors on a password-protected web site, www.cambridge.org/9780521679718.

Mathematics for Engineers IV - Gerd Baumann 2010-10-01

"Mathematics for Engineers I" gehört zu einer vierbändigen Reihe und gibt eine Einführung in die Mathematik für Undergraduates, die ein Bachelor-Studium im Bereich Ingenieurwissenschaften aufgenommen haben. Band IV ergänzt den Calculus und die Lineare Algebra durch grundlegende numerische Verfahren und deren Anwendung auf praktische Fragestellungen. Die Reihe unterscheidet sich von traditionellen Texten dadurch, dass sie interaktiv ist und mit Hilfe des Computer-Algebra-Systems Mathematica die Berechnungen darstellt. Jedem Buch liegt eine CD bei, die die Rechenprogramme und den vollständigen Text in Mathemetica enthält. Den Studierenden eröffnet sich so die Möglichkeit, interaktiv die Vorlesungsmaterialien nachzuvollziehen und die Fragestellungen des Texts sowie der Beispiele mit Unterstützung von Mathematica zu lösen.

The Penny Cyclopædia of the Society for the Diffusion of Useful Knowledge - 1842

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AP Calculus Premium - David Bock 2020-07-14
Always study with the most up-to-date prep! Look for AP Calculus Premium, 2022-2023, ISBN 9781506263946, on sale January 4, 2022. Publisher's Note: Products purchased from third-party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitles included with the product.

Fundamentals of Electric Machines: A Primer with MATLAB - Warsame Hassan Ali 2019-06-12
An electric machine is a device that converts mechanical energy into electrical energy or vice versa. It can take the form of an electric generator, electric motor, or transformer. Electric generators produce virtually all electric power we use all over the world. Electric machine blends the three major areas of electrical engineering: power, control and power electronics. This book presents the relation of power quantities for the machine as the current, voltage power flow, power losses, and efficiency. This book will provide a good understanding of the behavior and its drive, beginning with the study of salient features of electrical dc and ac machines.

Applied Mathematics for Physical Chemistry - James R. Barrante 2016-02-10
By the time chemistry students are ready to study physical chemistry, they've completed mathematics courses through calculus. But a strong background in mathematics doesn't necessarily equate to knowledge of how to apply that mathematics to solving physicochemical problems. In addition, in-depth understanding of modern concepts in physical chemistry requires knowledge of mathematical concepts and techniques beyond introductory calculus, such as differential equations, Fourier series, and Fourier transforms. This results in many physical chemistry instructors spending valuable lecture time teaching mathematics rather than chemistry. Barrante presents both basic and advanced mathematical techniques in the context of how they apply to physical chemistry. Many problems at the end of each chapter test students' mathematical knowledge. Designed and priced to accompany traditional core textbooks in physical chemistry, Applied Mathematics for Physical Chemistry provides students with the tools essential for answering questions in thermodynamics, atomic/molecular structure, spectroscopy, and statistical mechanics.

Calculus - Gilbert Strang 2016-03-07
"Calculus Volume 3 is the third of three volumes designed for the two- or three-semester calculus course. For many students, this course provides the foundation to a career in mathematics, science, or engineering."-- OpenStax, Rice University

AP Calculus - Dennis Donovan 2020-07-14
Be prepared for exam day with Barron's. Trusted content from AP experts! Barron's AP Calculus AB & BC: 2020-2021 includes in-depth content review and practice for both AB and BC exams. It's the only book you'll need to be prepared for exam day. Written by Experienced Educators Learn from Barron's--all content is written and reviewed by AP experts Build your understanding with comprehensive review tailored to the most recent exams Get a leg up with tips, strategies, and study advice for exam day--it's like having a trusted tutor by your side Be Confident on Exam Day Sharpen your test-taking skills with 8 full-length practice tests (4 AB practice tests and 4 BC practice tests), including a diagnostic AB test and a diagnostic BC test to target your studying Strengthen your knowledge with in-depth review covering all Units on the AP Calculus AB Exam and all Units on the AP Calculus BC Exam Reinforce your learning with practice questions at the end of each chapter

Calculus in Context - Alexander J. Hahn 2017-04-15
A new approach to teaching calculus that uses historical examples and draws on applications from science and engineering. Breaking the mold of existing calculus textbooks, Calculus in Context draws students into the subject in two new ways. Part I develops the mathematical

preliminaries (including geometry, trigonometry, algebra, and coordinate geometry) within the historical frame of the ancient Greeks and the heliocentric revolution in astronomy. Part II starts with comprehensive and modern treatments of the fundamentals of both differential and integral calculus, then turns to a wide-ranging discussion of applications. Students will learn that core ideas of calculus are central to concepts such as acceleration, force, momentum, torque, inertia, and the properties of lenses. Classroom-tested at Notre Dame University, this textbook is suitable for students of wide-ranging backgrounds because it engages its subject at several levels and offers ample and flexible problem set options for instructors. Parts I and II are both supplemented by expansive Problems and Projects segments. Topics covered in the book include: • the basics of geometry, trigonometry, algebra, and coordinate geometry and the historical, scientific agenda that drove their development • a brief, introductory calculus from the works of Newton and Leibniz • a modern development of the essentials of differential and integral calculus • the analysis of specific, relatable applications, such as the arc of the George Washington Bridge; the dome of the Pantheon; the optics of a telescope; the dynamics of a bullet; the geometry of the pseudosphere; the motion of a planet in orbit; and the momentum of an object in free fall. Calculus in Context is a compelling exploration—for students and instructors alike—of a discipline that is both rich in conceptual beauty and broad in its applied relevance.

Combinatorial Species and Tree-like Structures - F. Bergeron 1998

The combinatorial theory of species, introduced by Joyal in 1980, provides a unified understanding of the use of generating functions for both labelled and unlabelled structures and as a tool for the specification and analysis of these structures. Of particular importance is their capacity to transform recursive definitions of tree-like structures into functional or differential equations, and vice versa. The goal of this book is to present the basic elements of the theory and to give a unified account of its developments and applications. It offers a modern introduction to the use of various generating functions, with applications to graphical enumeration, Polya theory and analysis of data structures in computer science, and to other areas such as special functions, functional equations, asymptotic analysis and differential equations. This book will be a valuable reference to graduate students and researchers in combinatorics, analysis, and theoretical computer science.

Electronic Engineering Mathematics - Dan E. Taylor 1972

Penny Cyclopaedia of the Society for the Diffusion of Useful Knowledge - 1842

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7 Note: Click to view v.17 via CADAL. -- http://lookup.lib.hku.hk/lookup/bib/B3144507Xv18 Note: Click to view v.18 via CADAL. -- http://lookup.lib.hku.hk/lookup/bib/B3144507Xv19 Note: Click to view v.19 via CADAL. -- http://lookup.lib.hku.hk/lookup/bib/B3144507Xv20 Note: Click to view v.20 via CADAL.

Calculus of a Single Variable - Ron Larson 2022-01-02

Discover the clear approach and learning support you need to truly understand calculus with CALCULUS OF A SINGLE VARIABLE, 12th Edition by award-winning authors Larson and Edwards. This edition effectively presents and demonstrates the concepts and rules of calculus using a thoroughly updated and refined learning experience specifically designed to remove any typical barriers to learning. New Big Ideas of Calculus notes present the overarching ideas behind chapter topics to place the principles you're learning within a meaningful context. Annotated examples and Concept Checks further reinforce your understanding. A variety of exercises, including visually driven exercises, provide the resources you need to develop a deeper conceptual understanding of calculus. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

James Stirling - Ian Tweddle 1988

Mathematical Methods for Science Students - G. Stephenson 2020-09-16

Geared toward undergraduates in the physical sciences, this text offers a very useful review of mathematical methods that students will employ throughout their education and beyond. Includes problems, answers. 1973 edition.

Elementary Differential & Integral Calculus -

The Penny Cyclopaedia of the Society for the Diffusion of Useful Knowledge - 1842

Handbook of Multi-Commodity Markets and Products - Andrea Roncoroni 2015-02-17

The comprehensive guide to working more effectively within the multi-commodity market. The Handbook of Multi-Commodity Markets and Products is the definitive desktop reference for traders, structurers, and risk managers who wish to broaden their knowledge base. This non-technical yet sophisticated manual covers everything the professional needs to become acquainted with the structure, function, rules, and practices across a wide spectrum of commodity markets. Contributions from a global team of renowned industry experts provide real-world examples for each market, along with tools for analyzing, pricing, and risk managing deals. The discussion focuses on convergence, including arbitrage valuation, econometric modeling, market structure analysis, contract engineering, and risk, while simulated scenarios help readers understand the practical application of the methods and models presented. Gradual deregulation and the resulting increase in diversity and activity have driven the evolution of the traditionally segmented market toward integration, raising important questions about opportunity identification and analysis in multi-commodity deals. This book helps professionals navigate the shift, providing in-depth information and practical advice. Structure and manage both simple and sophisticated multi-commodity deals Exploit pay-off profiles and trading strategies with a diversified set of commodity prices Develop more accurate forecasting models by considering additional metrics Price energy products and other commodities in segmented markets with an eye toward specific structural features As one of the only markets strong enough to boom during the credit crunch, the commodities markets are growing rapidly. Combined with increasing convergence, this transition presents potentially valuable opportunities for the development of a robust multi-commodity portfolio. For the professional seeking deeper understanding and a more effective strategy, the Handbook of Multi-Commodity Markets and Products offers complete information and expert guidance.

Single Variable Calculus - Jon Rogawski 2007-06-11

The single-variable volume of Rogawski's new text presents this section of the calculus course with solid mathematical precision but with an everyday sensibility that puts the main concepts in clear terms. It is rigorous without being inaccessible and clear without being too informal--it has the perfect balance for

instructors and their students.

Selected Asymptotic Methods with Applications to Electromagnetics and Antennas - George Fikioris 2022-06-01

This book describes and illustrates the application of several asymptotic methods that have proved useful in the authors' research in electromagnetics and antennas. We first define asymptotic approximations and expansions and explain these concepts in detail. We then develop certain prerequisites from complex analysis such as power series, multivalued functions (including the concepts of branch points and branch cuts), and the all-important gamma function. Of particular importance is the idea of analytic continuation (of functions of a single complex variable); our discussions here include some recent, direct applications to antennas and computational electromagnetics. Then, specific methods are discussed. These include integration by parts and the Riemann-Lebesgue lemma, the use of contour integration in conjunction with other methods, techniques related to Laplace's method and Watson's lemma, the asymptotic behavior of certain Fourier sine and cosine transforms, and the Poisson summation formula (including its version for finite sums). Often underutilized in the literature are asymptotic techniques based on the Mellin transform; our treatment of this subject complements the techniques presented in our recent Synthesis Lecture on the exact (not asymptotic) evaluation of integrals.

An Analytical Calculus for School and University - Edwin Arthur Maxwell 1962

Electronic Filter Analysis and Synthesis - Michael Glynn Ellis 1994

Electronic Filter Analysis and Synthesis helps you save time and effort in writing CAD and analysis programs for electronic filters, and provides explicit details on how to synthesize lowpass, bandpass, bandstop, and highpass realizations for passive, active, digital and switched capacitors.

Basic Mathematics for Economics, Business and Finance - EK Ummer 2012-03-15

This book can help overcome the widely observed math-phobia and math-aversion among undergraduate students in these subjects. The book can also help them understand why they have to learn different mathematical techniques, how they can be applied, and how they will equip the students in their further studies. The book provides a thorough but lucid exposition of most of the mathematical techniques applied in the fields of economics, business and finance. The book deals with topics right from high school mathematics to relatively advanced areas of integral calculus covering in the middle the topics of linear algebra; differential calculus; classical optimization; linear and nonlinear programming; and game theory. Though the book directly caters to the needs of undergraduate students in economics, business and finance, graduate students in these subjects will also definitely find the book an invaluable tool as a supplementary reading. The website of the book – ww.emeacollege.ac.in/bmebf – provides supplementary materials and further readings on chapters on difference equation, differential equations, elements of Mathematica®, and graphics in Mathematica®, . It also provides materials on the applications of Mathematica®, as well as teacher and student manuals.

Mathematics for Chemistry - Graham Doggett 1995

Guide to mathematical theory and practice for undergraduate chemists

James Stirling - James Stirling 1922

Practical MATLAB for Engineers - 2 Volume Set - Misza Kalechman 2018-10-08

A comprehensive and accessible primer, this two volume tutorial immerses engineers and engineering students in the essential technical skills that will allow them to put Matlab® to immediate use. The first volume covers concepts such as: functions, algebra, geometry, arrays, vectors, matrices, trigonometry, graphs, pre-calculus and calculus. It then delves into the Matlab language, covering syntax rules, notation, operations, computational programming. The second volume illustrates the direct connection between theory and real applications. Each chapter reviews basic concepts and then explores those concepts with a number of worked out examples.

Active Calculus 2018 - Matthew Boelkins 2018-08-13

Active Calculus - single variable is a free, open-

source calculus text that is designed to support an active learning approach in the standard first two semesters of calculus, including approximately 200 activities and 500 exercises. In the HTML version, more than 250 of the exercises are available as interactive WeBWorK exercises; students will love that the online version even looks great on a smart phone. Each section of Active Calculus has at least 4 in-class activities to engage students in active learning. Normally, each section has a brief introduction together with a preview activity, followed by a mix of exposition and several more activities. Each section concludes with a short summary and exercises; the non-WeBWorK exercises are typically involved and challenging. More information on the goals and structure of the text can be found in the preface.