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Active Calculus Springer

Linguists routinely emphasise the primacy of speech over writing. Yet, most linguists have analysed spoken language, as well as language in general, applying theories and methods that are best suited for written language.

Accordingly, there is an extensive 'written language bias' in traditional and present day linguistics and other language sciences. In this book, this point is argued with rich and convincing evidence from virtually all fields of linguistics.

Applied Singular Integral Equations
Courier Corporation

Understanding Basic Calculus By S.K. Chung

Single Variable Calculus Courier Corporation

Construction of Integration Formulas for Initial Value Problems provides practice-oriented insights into the numerical integration of initial value problems for ordinary differential equations. It describes a number of integration

techniques, including single-step methods such as Taylor methods, Runge-Kutta methods, and generalized Runge-Kutta methods. It also looks at multistep methods and stability polynomials. Comprised of four chapters, this volume begins with an overview of definitions of important concepts and theorems that are relevant to the construction of numerical integration methods for initial value problems. It then turns to a discussion of how to convert two-point and initial boundary value problems for partial differential equations into initial value problems for ordinary differential equations. The reader is also introduced to stiff differential equations, partial differential equations, matrix theory and functional analysis, and non-linear equations. The

order of approximation of the single-step methods to the differential equation is considered, along with the convergence of a consistent single-step method. There is an explanation on how to construct integration formulas with adaptive stability functions and how to derive the most important stability polynomials. Finally, the book examines the consistency, convergence, and stability conditions for multistep methods. This book is a valuable resource for anyone who is acquainted with introductory calculus, linear algebra, and functional analysis.

Revised Springer Science & Business Media

This book presents computer programming as a key method for solving mathematical problems. There

are two versions of the book, one for MATLAB and one for Python. The book was inspired by the Springer book TCSE 6: A Primer on Scientific Programming with Python (by Langtangen), but the style is more accessible and concise, in keeping with the needs of engineering students. The book outlines the shortest possible path from no previous experience with programming to a set of skills that allows the students to write simple programs for solving common mathematical problems with numerical methods in engineering and science courses. The emphasis is on generic algorithms, clean design of programs, use of functions, and automatic tests for verification.

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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.

Numerical Methods for Scientists and Engineers Courier Corporation

This inexpensive paperback edition of a groundbreaking text stresses frequency approach in coverage of algorithms, polynomial approximation, Fourier approximation, exponential approximation, and other topics. Revised and enlarged 2nd edition.

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SUBSTITUTION RULE

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Our authors are masters of their craft, using language and imagery to create vibrant worlds that feel genuine. With every turn of the page, you'll be attracted deeper right into the story, eager to uncover what takes place next.

Geometric Integration Theory CK-12 Foundation

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.

Construction Of Integration Formulas For Initial Value Problems

Academic Press

James Stewart's *Calculus* series is the top-seller in the world because of its problem-solving focus, mathematical precision and accuracy, and outstanding examples and problem sets. Selected and mentored by Stewart, Daniel Clegg and Saleem Watson continue his legacy of providing students with the strongest foundation for a STEM future. Their careful refinements retain Stewart's

clarity of exposition and make the 9th Edition even more useful as a teaching tool for instructors and as a learning tool for students. Showing that Calculus is both practical and beautiful, the Stewart approach enhances understanding and builds confidence for millions of students worldwide. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamental Formulas · Tables · Graphs · Methods Cengage Learning

Active Calculus is different from most existing texts in that: the text is free to read online in .html or via download by users in .pdf format; in the electronic format, graphics are in full color and there are live .html links to java applets; the text is open source, so interested

instructor can gain access to the original source files via GitHub; the style of the text requires students to be active learners ... there are very few worked examples in the text, with there instead being 3-4 activities per section that engage students in connecting ideas, solving problems, and developing understanding of key calculus ideas; each section begins with motivating questions, a brief introduction, and a preview activity; each section concludes (in .html) with live WeBWorK exercises for immediate feedback, followed by a few challenging problems.

Theory and Applications Springer Science & Business Media

We see teaching mathematics as a form of story-telling, both when we present in a classroom and when we write

materials for exploration and learning. The goal is to explain to you in a captivating manner, at the right pace, and in as clear a way as possible, how mathematics works and what it can do for you. We find mathematics to be intriguing and immensely beautiful. We want you to feel that way, too.

Inductance Calculations Chapman and Hall/CRC

The positive response to the publication of Blanton's English translations of Euler's "Introduction to Analysis of the Infinite" confirmed the relevance of this 240 year old work and encouraged Blanton to translate Euler's "Foundations of Differential Calculus" as well. The current book constitutes just the first 9 out of 27 chapters. The remaining chapters will be published at a later

time. With this new translation, Euler's thoughts will not only be more accessible but more widely enjoyed by the mathematical community.

With Formulas, Graphs, and Mathematical Tables John Wiley & Sons

CK-12 Foundation's Single Variable Calculus FlexBook introduces high school students to the topics covered in the Calculus AB course. Topics include: Limits, Derivatives, and Integration.

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CK-12 Calculus Routledge

' This reference book presents unique and traditional analytic calculations, and

features more than a hundred universal formulas where one can calculate by hand enormous numbers of definite integrals, fractional derivatives and inverse operators. Despite the great success of numerical calculations due to computer technology, analytical calculations still play a vital role in the study of new, as yet unexplored, areas of mathematics, physics and other branches of sciences. Readers, including non-specialists, can obtain themselves universal formulas and define new special functions in integral and series representations by using the methods expounded in this book. This applies to anyone utilizing analytical calculations in their studies. Contents: Mathematical Preparation Calculation of Integrals Containing Trigonometric and Power

Functions Integrals Involving xy , $(p + txp)^{-\lambda}$ Sine and Cosine Functions Derivation of General Formulas for Integrals Involving Powers of x , $(a + bx)$ -Type Binomials and Trigonometric Functions Integrals Involving xy , $1/(p + txp)^{-\lambda}$, $\exp[-axy]$ and Trigonometric Functions Integrals Containing Bessel Functions Integrals Involving the Neumann Function $N\sigma(x)$ Integrals Containing Other Cylindrical and Special Functions Integrals Involving Two Trigonometric Functions Derivation of Universal Formulas for Calculation of Fractional Derivatives and Inverse Operators Readership: Undergraduate and graduate students interested in analytic calculations in integral calculus. Researchers from the fields of modern mathematical analysis, theoretical

physics and engineering. Non-experts interested in integrals, fractional derivatives and inverse operators. Key Features: Content in this book is easy to read Has simple tables of integration and taking fractional derivatives and calculating complicated inverse operators Most valuable tip from the book is a simple and nice way to perform integration showing it as a design culture but not as tedious work Keywords: Mellin Representation; Contour Integration; Analytic Continuation; Taking Residue; L'Hôpital's Rule; Gamma Function; Psi-Function; Exponential Function; Neumann; Trigonometric; Cylindrical; Struve; Modified Struve; Bessel and Modified Bessel Functions; Probability Integrals; Integral of Frenal; General

Formulas for Taking Integrals; Fractional Derivatives; Inverse Operators; Euler Number'

[A Gentle Introduction to Numerical Simulations with MATLAB/Octave](#)
Routledge

A Calculus text covering limits, derivatives and the basics of integration. This book contains numerous examples and illustrations to help make concepts clear. The follow-up to this text is Calculus 2, which review the basic concepts of integration, then covers techniques and applications of integration, followed by sequences and series. Calculus 3 finishes this series by covering parametric equations, polar coordinates, vector valued functions, multivariable functions and vector analysis. A free .pdf version of all three

can be obtained at apexcalculus.com.

Pocket Book of Integrals and
Mathematical Formulas SIAM

This handbook presents many known results as well as new classes of integrals, series, power expansions, and productions of elementary and special functions. It shows how modern computer algebra methods are used to solve various problems in science and engineering. The second volume of the set contains formulas devoted to mathematical physics, including the Meijer G-function and properties of hypergeometric functions. Using these tools, readers can evaluate and simplify numerous new integrals and sums.

Computational Integration CRC Press

TO THE FIRST RUSSIAN EDITION It was a

very difficult task to write a guide-book of a small size designed to contain the fundamental knowledge of mathematics which is most necessary to engineers and students of higher technical schools. In our tendency to the compactness and brevity of the exposition, we attempted, however, to produce a guide-book which would be easy to understand, convenient to use and as accurate as possible (as much as it is required in engineering). It should be pointed out that this book is neither a handbook nor a compendium, but a guide-book. Therefore it is not written as systematically as a handbook should be written. Hence the reader should not be surprised to find, for example, l'HOpital's rule in the section devoted to computation of limits which is a part of the chapter "Introduction to the

analysis" placed before the concept of the derivative, or information about the Gamma function in the chapter "Algebra"-just after the concept of the factorial. There are many such "imperfections" in the book. Thus a reader who wants to acquire certain information is advised to use not only the table of contents but also the alphabetical index inserted at the end of the book. If a problem mentioned in the text is explained in detail in another place of the book, then the corresponding page is indicated in a footnote.

Early Transcendentals, 2e Elsevier

CalculusHandbook of Mathematical Formulas and IntegralsElsevier

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REVIEW OF BASIC INTEGRATION FORMULAS AND THE SUBSTITUTION RULE

- Let me begin by saying that, had I discovered this book on my own, without Mark Moskowitz's *STONE READER* documentary, I would have been recommending it to every serious reader I know. I approached it with some reservation, expecting to find an overhyped work that had gone out of print for good reason, but I was utterly captivated within the first five pages.

Fifty pages in, I was saying "Wow!" Dow Mossman's *THE STONES OF SUMMER* seems to attract a remarkable degree of vitriol from reviewers. Readers apparently either love it or hate it, perhaps somewhat the way people respond to modern art. It is surely a far from perfect work, but rather than pick nits about individual sentences and images, I found myself reading right through them, accepting them for the atmosphere they create as if I was reading poetry. For me, at least, the story flowed into a larger societal picture that resonated with the sense of betrayal and despair generated by the antiwar, counterculture movement of the late 1960's. *THE STONES OF SUMMER* is a remarkable first novel, and sadly, an apparently last novel as well. As past

reviews suggest, it is also not everyone's cup of tea. This book is not a mindless summer read, nor is it a page-turning thriller. But readers whose tastes run to Saramago, Pynchon, DeLillo, Faulkner, or Garcia Marquez are likely to find Dow Mossman's book intriguing and enjoyable (if less polished), a deeply felt story wrapped in prose so exuberant, so manically transcendent, it practically leaps off the page and grabs you by the throat. Unlike so many popular works (Ludlum, Grisham, King, Cussler, Clancy, etc.) whose stories are as memorable as last week's hot dog, this is a book you will never forget. On its surface, *THE STONES OF SUMMER* tells the coming of age story of Iowa-born Dawes Oldham Williams (D.O.W.) in three segments. The first takes place when a precocious,

eight year old Dawes visits his grandfather's racing greyhound farm during summer vacation, with flashbacks to Dawes' relationship and adventures with a troublemaking friend named Ronnie Crown. The second segment occurs 7-10 years later, during Dawes' rather wild and crazy high school years, ending in tragedy on his last night at home before college. The final section takes place another ten years later and finds Dawes on his way to, and living in, Mexico, still trying to cope with personal losses, hopelessness, and borderline schizophrenia. Each section of the book speaks in its own voice. The opening, 1949-1950 segment is densely written, filled with the soaring, spiraling imagery for which the book is best known. We are introduced to Dawes' ineffectual, Donna

Reed mother and nearly as bland stepfather, a dark and imposing grandfather with a hair-trigger temper and dog-eat-dog temperament reminiscent of Joe McCarthy, and a sybil-like neighbor woman named Abigail Winas who raises chickens and all but reads their entrails. The second section, 1956-1961, is more chronologically told in somewhat more straightforward prose and dialog, suggesting the sexual and cultural revolution just then beginning. The final section, 1967-1968, is almost hallucinatory, filled with journal writings, letters, a short novel by Dawes, and a story line about sanity, drugs, Vietnam, and the sexual revolution. THE STONES OF SUMMER deals with the great American awakening from 1950 to 1968, culminating with the tragedy of the

Vietnam War and the death of American innocence. It is a novel about personal identity and individuality, alienation, the role of history (both personal and national), and the relativity of truth. In the end, it is also a story of rebellion against tradition and cultural mores and the burdens falling upon those who rebel. The message is classic, the execution is powerful, the story is tragic. Writing in 1972, Mossman proved prescient about the absurdity of American culture and political values, going so far as to conjecture about the ridiculous notion of Ronald Reagan as a President! Dawes Williams would have laughed until he cried if he had seen what has come to pass with the Bush Administration's manufacturing of its own history with regard to Iraq: WMD's,

toppling Saddam's statue, Jessica Lynch, the Thanksgiving turkey, "Mission Accomplished," "We're making good progress. They all love us," and the like. He had seen the enemy, and it was us. Aaattssssss Dawes! There is certainly room for valid criticism of this book. The female characters lack depth, the prose is sometimes just too extravagant, the literary allusions lack subtlety, some of the dialog is pretentious to the point of

self-parody, and the Huck Finn references (particularly Dawes having a girlfriend named Becky Thatcher) are overplayed. Yet despite these drawbacks, Dow Mossman masterfully captures America's own coming of age story in a way few authors have.

- This book is relatively interesting, though it is a bit dry in places. Worth a read for people who are tea-lovers and those interested in the tea ceremony.