

Quick Calculus A Self Teaching 2nd Edition

Feel at home among the stars with this acclaimed astronomy self-teaching guide . . . "A lively, up-to-date account of the basic principles of astronomy and exciting current fields of research."-Science Digest "One of the best ways by which one can be introduced to the wonders of astronomy."-The Strolling Astronomer "Excellent . . . provides stimulating reading and actively involves the reader in astronomy."-The Reflector From stars, planets, and galaxies to the mysteries of black holes, the Big Bang, and the possibility of life on other planets, this new edition of *Astronomy: A Self-Teaching Guide* brings the fascinating night sky to life for every student and amateur stargazer. With a unique self-teaching format, *Astronomy* clearly explains the essentials covered in an introductory college-level course. Written by an award-winning author, this practical guide offers beginners an easy way to quickly grasp the basic principles of astronomy. To help you further appreciate the wonders of the cosmos, this book also includes: Star and Moon maps that identify objects in the sky Objectives, reviews, and self-tests that monitor your progress Simple activities that help you to test basic principles at your own pace Updated with the latest discoveries, new photographs, and references to the best astronomy Web sites, this newest edition of *Astronomy* imparts an extraordinary appreciation of the elegant beauty of the universe. Over 2 Million Wiley Self-

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Teaching Guides in Print

Your INTEGRAL tool for mastering ADVANCED CALCULUS Interested in going further in calculus but don't where to begin? No problem! With Advanced Calculus Demystified, there's no limit to how much you will learn. Beginning with an overview of functions of multiple variables and their graphs, this book covers the fundamentals, without spending too much time on rigorous proofs. Then you will move through more complex topics including partial derivatives, multiple integrals, parameterizations, vectors, and gradients, so you'll be able to solve difficult problems with ease. And, you can test yourself at the end of every chapter for calculated proof that you're mastering this subject, which is the gateway to many exciting areas of mathematics, science, and engineering. This fast and easy guide offers: Numerous detailed examples to illustrate basic concepts Geometric interpretations of vector operations such as div, grad, and curl Coverage of key integration theorems including Green's, Stokes', and Gauss' Quizzes at the end of each chapter to reinforce learning A time-saving approach to performing better on an exam or at work Simple enough for a beginner, but challenging enough for a more advanced student, Advanced Calculus Demystified is one book you won't want to function without!

This textbook uses modern political economy to introduce students of political science, government, economics, and public policy to the politics of the policymaking process. The book's distinct political economy approach has two virtues. By developing

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general principles for thinking about policymaking, it can be applied across a range of issue areas. It also unifies the policy curriculum, offering coherence to standard methods for teaching economics and statistics, and drawing connections between fields. The book begins by exploring the normative foundations of policymaking—political theory, social choice theory, and the Paretian and utilitarian underpinnings of policy analysis. It then introduces game theoretic models of social dilemmas—externalities, coordination problems, and commitment problems—that create opportunities for policy to improve social welfare. Finally, it shows how the political process creates technological and incentive constraints on government that shape policy outcomes. Throughout, concepts and models are illustrated and reinforced with discussions of empirical evidence and case studies. This textbook is essential for all students of public policy and for anyone interested in the most current methods influencing policymaking today.

Comprehensive approach to politics and policy suitable for advanced undergraduates and graduate students
Models unify policy curriculum through methodological coherence
Exercises at the end of every chapter
Self-contained appendices cover necessary game theory
Extensive discussion of cases and applications

Quick Calculus A Self-Teaching Guide John Wiley & Sons

Can a set be a member of itself? How do we know that the square root of 2 is irrational? Can a graph really represent a function accurately? Is a function just a rule? Does canceling (crossing out) terms mask important algebraic properties? This entirely practical book is for

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the student who wants a complete command of the prerequisite material on the first day of calculus class. Success in calculus depends on having a reasonable command of all that went before, yet most precalculus students are taught only simple tools and techniques, leaving them with a superficial understanding of problem-solving. Tim Hill explains why things are true and encourages students to go beyond merely memorizing ways of solving a few problems to pass exams. -

Teaches general principles that can be applied to a wide variety of problems. - Avoids the mindless and excessive routine computations that characterize conventional textbooks. - Treats the subject as a logically coherent discipline, not as a disjointed collection of techniques. - Restores proofs to their proper place to remove doubt, convey insight, and encourage precise logical thinking. - Omits digressions, excessive formalities, and repetitive exercises. - Provides exceptional preparation for a calculus course.- Includes problems (with all solutions) that extend your knowledge rather than merely reinforce it. Contents 1. Sets 2. The Real Number System 3. Functions 4. Graphs 5. Solutions

A review of plane geometry, numerical trigonometry, geometric and trigonometric analysis, and limits emphasizes the graphic representation of problems to be solved by combined methods

Learn physics at your own pace without an instructor Basic Physics: A Self-Teaching Guide, 3rd Edition is the most practical and reader-friendly guide to understanding all basic physics concepts and terms. The expert authors take a flexible and interactive approach to physics based

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on new research-based methods about how people most effectively comprehend new material. The book takes complex concepts and breaks them down into practical, easy to digest terms. Subject matter covered includes: Newton's Laws Energy Electricity Magnetism Light Sound And more There are also sections explaining the math behind each concept for those who would like further explanation and understanding. Each chapter features a list of objectives so that students know what they should be learning from each chapter, test questions, and exercises that inspire deeper learning about physics. High school students, college students, and those re-learning physics alike will greatly enhance their physics education with the help of this one-of-a-kind guide. The third edition of this book reflects and implements new, research-based methods regarding how people best learn new material. As a result, it contains a flexible and interactive approach to learning physics.

Practical Algebra If you studied algebra years ago and now need a refresher course in order to use algebraic principles on the job, or if you're a student who needs an introduction to the subject, here's the perfect book for you. Practical Algebra is an easy and fun-to-use workout program that quickly puts you in command of all the basic concepts and tools of algebra. With the aid of practical, real-life examples and applications, you'll learn: * The basic approach and application of algebra to problem solving * The number system (in a much broader way than you

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have known it from arithmetic) * Monomials and polynomials; factoring algebraic expressions; how to handle algebraic fractions; exponents, roots, and radicals; linear and fractional equations * Functions and graphs; quadratic equations; inequalities; ratio, proportion, and variation; how to solve word problems, and more Authors Peter Selby and Steve Slavin emphasize practical algebra throughout by providing you with techniques for solving problems in a wide range of disciplines--from engineering, biology, chemistry, and the physical sciences, to psychology and even sociology and business administration. Step by step, Practical Algebra shows you how to solve algebraic problems in each of these areas, then allows you to tackle similar problems on your own, at your own pace. Self-tests are provided at the end of each chapter so you can measure your mastery.

An Update of the Most Popular Graduate-Level Introductions to Bayesian Statistics for Social Scientists Now that Bayesian modeling has become standard, MCMC is well understood and trusted, and computing power continues to increase, Bayesian Methods: A Social and Behavioral Sciences Approach, Third Edition focuses more on implementation details of the procedures and less on justifying procedures. The expanded examples reflect this updated approach. New to the Third Edition A chapter on Bayesian decision theory,

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covering Bayesian and frequentist decision theory as well as the connection of empirical Bayes with James–Stein estimation A chapter on the practical implementation of MCMC methods using the BUGS software Greatly expanded chapter on hierarchical models that shows how this area is well suited to the Bayesian paradigm Many new applications from a variety of social science disciplines Double the number of exercises, with 20 now in each chapter Updated BaM package in R, including new datasets, code, and procedures for calling BUGS packages from R This bestselling, highly praised text continues to be suitable for a range of courses, including an introductory course or a computing-centered course. It shows students in the social and behavioral sciences how to use Bayesian methods in practice, preparing them for sophisticated, real-world work in the field.

Quickhand(TM) Now you can teach yourself to write high-speed shorthand using just the letters of the alphabet! Quickhand is a new, easy-to-learn, easy-to-use, practical shorthand for business, school, or personal use. In just a few hours, you'll learn to write words as they sound. (No more months of study.) Quickhand is the only alphabetic shorthand based on scientific research into how English is actually used. So you need to learn brief forms of only 35 of the most used words—these make up 40 percent of all words in normal office

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usage! (No more memorizing hundreds of special symbols and abbreviations for seldom-used words, as in some systems.) With some abbreviations for the most common word endings and beginnings and special sounds, you'll know Quickhand. And you'll be able to write Quickhand quickly and easily—on the job, in school, in meetings, anywhere! Quickhand is one of the Wiley Self-Teaching Guides. It's been tested, rewritten, and retested until we're sure you can teach yourself shorthand on your own. And it's programmed—so you work at your own pace. No prerequisites are needed. Objectives and self-tests tell you how you're doing and allow you to skip ahead or find extra help if you need it. Frequent reviews, practice exercises, and a comprehensive exam reinforce what you learn. Wiley Self-Teaching Guides More than 150 Wiley Self-Teaching Guides teach practical skills from accounting to astronomy, management to microcomputers. Study Skills: A Student's Guide for Survival, Carman Reading Skills, Adams Speedreading, Fink Vocabulary for Adults, Romine Spelling for Adults, Ryan Punctuation, Markgraf Clear Writing, Gilbert Communicating by Letter, Gilbert Communications for Problem Solving, Curtis Quick Arithmetic, Carman Math Shortcuts, Locke Practical Algebra, Selby Finite Mathematics, Rothenberg Using Graphs & Tables, Selby Business Math, Locke Geometry & Trigonometry for Calculus, Selby Quick Calculus,

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Kleppner Your Library: What's In It For You? Lolley Literature: As You Read It, Hess Art: As You See It, Bell What Makes Music Work? Seyer Quick Typing, Grossman Quickhand, Grossman Managing Your Own Money, Zimmerman Look for these and other STGs at your favorite bookstore. A Self-Teaching Guide Look for these and other Wiley Self-Teaching Guides at your local bookstore.

THE QUICK AND PAINLESS WAY TO TEACH YOURSELF BASIC CHEMISTRY CONCEPTS AND TERMS

Chemistry: A Self-Teaching Guide is the easy way to gain a solid understanding of the essential science of chemistry. Assuming no background knowledge of the subject, this clear and accessible guide covers the central concepts and key definitions of this fundamental science, from the basic structure of the atom to chemical equations. An innovative self-guided approach enables you to move through the material at your own pace—gradually building upon your knowledge while you strengthen your critical thinking and problem-solving skills. This edition features new and revised content throughout, including a new chapter on organic chemistry, designed to dramatically increase how fast you learn and how much you retain. This powerful learning resource features: An interactive, step-by-step method proven to increase your understanding of the fundamental concepts of chemistry Learning objectives, practice questions,

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study problems, and a self-review test in every chapter to reinforce your learning. An emphasis on practical concepts and clear explanations to ensure that you comprehend the material quickly. Engaging end-of-chapter stories connecting the material to a relevant topic in chemistry to bring important concepts to life. Concise, student-friendly chapters describing major chemistry concepts and terms, including the periodic table, atomic weights, chemical bonding, solutions, gases, solids, and liquids. *Chemistry: A Self-Teaching Guide* is an ideal resource for high school or college students taking introductory chemistry courses, for students taking higher level courses needing to refresh their knowledge, and for those preparing for standardized chemistry and medical career admission tests.

This no-nonsense guide provides students and self-learners with a clear and readable study of the most important ideas of precalculus mathematics. Tim Hill's distraction-free approach combines decades of tutoring experience with the proven methods of his Russian math teachers. The result: learn in a few weeks what conventional schools stretch into months.

- Teaches general principles that can be applied to a wide variety of problems.
- Avoids the mindless and excessive routine computations that characterize conventional textbooks.
- Treats the subject as a logically coherent discipline, not as a disjointed collection of techniques.
- Restores proofs

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to their proper place to remove doubt, convey insight, and encourage precise logical thinking. - Omits digressions, excessive formalities, and repetitive exercises. - Provides exceptional preparation for a calculus course. - Includes problems (with all solutions) that extend your knowledge rather than merely reinforce it. Contents
1. The Real Line and Coordinate Plane 2. Straight Lines 3. Circles and Parabolas 4. Functions 5. Graphs 6. Trigonometry 7. Solutions
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Learn geometry at your own pace What are congruent circles? How do you find the hypotenuse of a triangle? What is the sum of the angles in a decagon? How can you apply geometric equations to your daily life? With the unbeatable study companion *Geometry: A Self-Teaching Guide*, you'll discover the answers to these questions and many more. This thorough primer presents an easy-to-follow, proven method for grasping the key concepts of geometry. You'll progress step by step through plane, solid, and analytic geometry and then move on to geometric applications for calculus. You'll build your problem-solving skills along the way through detailed examples, reviews, exercises, and answer explanations. The clearly structured format of *Geometry* makes it fully accessible, providing an easily understood, comprehensive overview for everyone from high school students to adult learners

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to math mavens. Like all Self-Teaching Guides, Geometry allows you to build gradually on what you have learned—at your own pace. Questions and self-tests reinforce the information in each chapter and allow you to skip ahead or focus on specific areas of concern. Packed with useful, up-to-date information, this clear, concise volume is a valuable learning tool and reference source for anyone who wants to improve his or her understanding of basic geometry.

CHEMISTRY SECOND EDITION The fast, easy way to master the fundamentals of chemistry Have you ever wondered about the differences between liquids, gases, and solids? Or what actually happens when something burns? What exactly is a solution? An acid? A base? This is chemistry--the composition and structure of substances composing all matter, and how they can be transformed. Whether you are studying chemistry for the first time on your own, want to refresh your memory for a test, or need a little help for a course, this concise, interactive guide gives you a fresh approach to this fascinating subject. This fully up-to-date edition of *Chemistry: Concepts and Problems*: * Has been tested, rewritten, and retested to ensure that you can teach yourself all about chemistry * Requires no prerequisites * Lets you work at your own pace with a helpful question-and-answer format * Lists objectives for each chapter--you can skip ahead or find extra help if you

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need it * Reinforces what you learn with chapter self-tests

Teaches the basic principles used to solve ten common types of puzzles, and includes 105 practice problems and their solutions

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

At last—a social scientist's guide through the pitfalls of modern statistical computing Addressing the current deficiency in the literature on statistical methods as they apply to the social and

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behavioral sciences, Numerical Issues in Statistical Computing for the Social Scientist seeks to provide readers with a unique practical guidebook to the numerical methods underlying computerized statistical calculations specific to these fields. The authors demonstrate that knowledge of these numerical methods and how they are used in statistical packages is essential for making accurate inferences. With the aid of key contributors from both the social and behavioral sciences, the authors have assembled a rich set of interrelated chapters designed to guide empirical social scientists through the potential minefield of modern statistical computing. Uniquely accessible and abounding in modern-day tools, tricks, and advice, the text successfully bridges the gap between the current level of social science methodology and the more sophisticated technical coverage usually associated with the statistical field. Highlights include:

- A focus on problems occurring in maximum likelihood estimation
- Integrated examples of statistical computing (using software packages such as the SAS, Gauss, Splus, R, Stata, LIMDEP, SPSS, WinBUGS, and MATLAB®)
- A guide to choosing accurate statistical packages
- Discussions of a multitude of computationally intensive statistical approaches such as ecological inference, Markov chain Monte Carlo, and spatial regression analysis
- Emphasis on specific numerical problems,

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statistical procedures, and their applications in the field Replications and re-analysis of published social science research, using innovative numerical methods Key numerical estimation issues along with the means of avoiding common pitfalls A related Web site includes test data for use in demonstrating numerical problems, code for applying the original methods described in the book, and an online bibliography of Web resources for the statistical computation Designed as an independent research tool, a professional reference, or a classroom supplement, the book presents a well-thought-out treatment of a complex and multifaceted field.

Pre-Calculus Demystified leads the reader through all the intricacies and requirements of this essential course Whether you need to pass a class, a college requirement, or get a leg up on more advanced topics, this book provides clear explanation with a wealth of questions, answers and practical examples. Packed with practical examples, graphs, and Q&As, this complete self-teaching guide from the best-selling author of Algebra Demystified covers all the essential topics, including: absolute value, nonlinear inequalities, functions and their graphs, inverses, proportion and ratio, and much more.

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Take a learning journey through billions of years of Earth history. This indispensable guide to the fundamentals of geology is the ideal way to introduce yourself to all the basics, from rocks, minerals, and fossil fuels to earthquakes, volcanoes, and plate tectonics. Using quick quizzes and self-tests to reinforce key concepts, *Geology* carefully walks you through billions of years of Earth history. Illustrated with more than one hundred specially commissioned illustrations and fifty photographs that help clarify difficult concepts, this easy-to-follow book is an interactive resource for anyone interested in learning more about our planet. Whether you are new to geology or want to refresh and update your knowledge, the proven self-teaching guide approach will allow you to work at your own pace, check your progress, and learn more about this fascinating field of study.

The new, updated edition of the classic medical terminology reference with over 200,000 copies sold, *Quick Medical Terminology* has long been relied on by students and medical professionals looking to build or update their medical vocabulary. This new fifth edition provides the tools and information needed to understand the simple logic behind hundreds of seemingly incomprehensible words, along with fresh exercises and current examples. Features new review exercises and self-tests, more than 250 new terms, medical measurements, and up-to-date examples. Provides the tools necessary for building and sustaining a large

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working repertoire of medical terms The reference of choice for health practitioners and others who need to expand, improve, or refresh their medical vocabularies Filled with essential information presented in a clear and easy-to-follow format, Quick Medical Terminology is an invaluable learning tool and reference source.

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-

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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!

The fastest, easiest way to master precalculus . . . by doing it! Do logarithmic functions throw you for a loop? Does the challenge of finding an inverse function leave you overwhelmed? Does the Law of Cosines make you feel clueless? With this helpful, easy-to-follow guide, you will gain total command of these precalc concepts-and many more-in no time at all. Precalculus: A Self-Teaching Guide includes an algebra review and complete coverage of exponential functions, log functions, and trigonometry. Whether you are studying precalculus for the first time, want to refresh your memory, or need a little help for a course, this clear, interactive primer will provide you with the skills you need. Precalculus offers a proven self-teaching approach that lets you work at your own pace-and the frequent self-tests and exercises reinforce what you've learned. Turn to this one-of-a-kind teaching tool and, before you know

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it, you'll be solving problems like a mathematician! The goal of Quick Calculus is to provide a working knowledge of the basic principles of differential and integral calculus in a transparent style. It emphasizes technique and application rather than rigorous theory. Those who will need a deeper understanding of mathematics--students in science, math, medicine, business and the social sciences—or those who for one reason or another need a deeper knowledge of calculus, will find that Quick Calculus provides a boost into more rigorous treatments. Quick Calculus is designed for self-study. It is concise, self-contained and can be pursued at the reader's convenience.

Here is a complete self-teaching guide for anyone needing knowledge of math as it applies to engineering and technical fields.

A programmed text designed to introduce the student to the fundamentals of differential and integral calculus
If you're ready to expand your word power, this book is for you. You'll learn practical shortcuts and techniques for understanding and using more words. You'll discover how combining Greek and Latin roots, prefixes, and suffixes makes learning both fast and fun. You'll be able to remember the meanings of many more words -- without memorizing endless lists. With Quick Vocabulary Power, you can: * Work at your own pace * See words in context, so that meanings are clear and easy to grasp * Learn the precise differences between words that are commonly confused * Practice and chart your progress with frequent self-tests This informative, easy-to-use guide is a completely revised and updated edition of the

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classic Vocabulary for Adults, which helped tens of thousands of people improve their communication skills. The author explains the theoretical underpinnings of generalized linear models so that researchers can decide how to select the best way to adapt their data for this type of analysis. Examples are provided to illustrate the application of GLM to actual data and the author includes his Web address where additional resources can be found.

With this handy volume, you can learn the elementary techniques of differential and integral calculus in a relatively short period of time. The material has been specially selected for this purpose and the book combines instructive problems with a lively text to facilitate either self-study or classroom use. You will have lots of opportunities to develop your skill by working carefully selected problems. Explanations of the solutions are given for those who need them. The presentation is flexible so that you can proceed according to your particular background and needs.
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