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we learn-should find his book valuable reading." –Wall Street Journal

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tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-

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studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning. This text offers guidance to teachers, mathematics coaches, administrators, parents, and policymakers. This book: provides a research-based description of eight essential mathematics teaching practices ; describes the conditions, structures, and policies that must support the teaching practices ; builds on NCTM's

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Principles and Standards for School Mathematics and supports implementation of the Common Core State Standards for Mathematics to attain much higher levels of mathematics achievement for all students ; identifies obstacles, unproductive and productive beliefs, and key actions that must be understood, acknowledged, and addressed by all stakeholders ; encourages teachers of mathematics to engage students in mathematical thinking, reasoning, and sense making to significantly strengthen

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Fast Track to a Five for Larson/Edwards Calculus: Early Transcendental Functions, 5th

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*integrals, and polynomial approximations. CliffsAP Calculus AB and BC also includes information on the following: Trigonometric functions Algebraic techniques for finding limits Derivatives of exponential functions Differential equations and slope fields Radius and interval of convergence of power series Numerical solutions to differential equations: Euler's Method This comprehensive guide offers a thorough review of key concepts and detailed answer explanations. It's all you need to do your best – and get the college credits you deserve. *Advanced Placement Program and AP are registered*

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As the open-source and free competitor to expensive software like MapleTM, Mathematica[®], Magma, and MATLAB[®], Sage offers anyone with access to a web browser the ability to use cutting-edge mathematical software and display his or her results for others, often with stunning graphics. This book is a gentle introduction to Sage for undergraduate students toward the end of Calculus II (single-variable integral calculus) or higher-level course work such as

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Multivariate Calculus, Differential Equations, Linear Algebra, or Math Modeling. The book assumes no background in computer science, but the reader who finishes the book will have learned about half of a first semester Computer Science I course, including large parts of the Python programming language. The audience of the book is not only math majors, but also physics, engineering, finance, statistics, chemistry, and computer science majors. Get ready for your AP Calculus AB exam with this straightforward, easy-to-follow study guide--updated to match the latest test

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changes The wildly popular test prep guide—updated and enhanced for smartphone users—5 Steps to a 5: AP Calculus AB 2017 provides a proven strategy to achieving high scores on this demanding Advanced Placement exam. This logical and easy-to-follow instructional guide introduces an effective 5-step study plan to help students build the skills, knowledge, and test-taking confidence they need to reach their full potential. The book helps students master multiple-choice, free-response and essay questions and offers comprehensive answer explanations and sample responses. Written by a math consultant and

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former chair of math department, this insider's guide reflects the latest course syllabus and includes 2 full-length practice exams, plus the most up-to-date scoring information. The 5 Steps to a 5: AP Calculus AB 2017 effective 5-step plan breaks down test preparation into stages: 1. Set Up Your Study Program 2. Determine Your Test Readiness 3. Develop Strategies for Success 4. Develop the Knowledge You Need to Score High 5. Build Your Test-Taking Confidence. In 2014, almost 300,000 students took the AP Calculus AB test 2 full-length practice exams BONUS interactive AP Planner app delivers a

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customized study schedule and extra practice questions to students' mobile devices The 5 Steps to a 5 series has prepared millions of students for success

The second edition of the Handbook of Test Development provides graduate students and professionals with an up-to-date, research-oriented guide to the latest developments in the field. Including thirty-two chapters by well-known scholars and practitioners, it is divided into five sections, covering the foundations of test development, content definition, item development, test design and form assembly, and the processes of test

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administration, documentation, and evaluation. Keenly aware of developments in the field since the publication of the first edition, including changes in technology, the evolution of psychometric theory, and the increased demands for effective tests via educational policy, the editors of this edition include new chapters on assessing noncognitive skills, measuring growth and learning progressions, automated item generation and test assembly, and computerized scoring of constructed responses. The volume also includes expanded coverage of performance testing, validity,

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fairness, and numerous other topics. Edited by Suzanne Lane, Mark R. Raymond, and Thomas M. Haladyna, The Handbook of Test Development, 2nd edition, is based on the revised Standards for Educational and Psychological Testing, and is appropriate for graduate courses and seminars that deal with test development and usage, professional testing services and credentialing agencies, state and local boards of education, and academic libraries serving these groups.

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An Introduction to Numerical Methods and Analysis

Orbital Mechanics for Engineering Students

This survey focuses on the main trends in the field of calculus education. Despite their variety, the findings reveal a cornerstone issue that is strongly linked to the formalism of calculus concepts and to the difficulties it generates in the learning and teaching process. As a complement to the main text, an extended

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bibliography with some of the most important references on this topic is included. Since the diversity of the research in the field makes it difficult to produce an exhaustive state-of-the-art summary, the authors discuss recent developments that go beyond this survey and put forward new research questions.

Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes.

There are two approaches to the study of probability theory. One is heuristic and

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nonrigorous, and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poisson processes. The

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remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in

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**widely used in the field Hallmark features:
Superior writing style Excellent exercises and examples covering the wide breadth of coverage of probability topics Real-world applications in engineering, science, business and economics Provides a review of relevant math topics and test-taking tips, and also includes 3 practice tests with answers.**

A short introduction ideal for students learning category theory for the first time.

**Amsco's AP Calculus AB/BC
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- 2 complete practice AP Calculus AB exams
- 3 separate plans to fit your study style
- Review material updated and geared to the most recent tests
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Multiple Choice Questions to Prepare for the AP Calculus BC Exam is your essential tool to scoring well on AP Calculus BC Exam. This book fits the College Board requirements for the 2014

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AP Exam, and reflects all the recent changes in the AP Calculus curriculum and the AP Exam format. The author, Rita Korsunsky, an award winning Calculus teacher whose students' scores on the AP Exam are: 100% passing and 94% fives. This book includes:

- *Six Multiple Choice Exams
- *Formulas and Theorems for Reference
- *Tips for the AP Test
- *An answer Key

The solutions with step-by-step explanations to each and every problem created in form of PowerPoint presentation are available for ordering on www.mathboat.com This book is created with the student in mind. It is meant to reinforce key skills, such as attention to detail, to solve all types of exam problems, and to have the optimal number of specific problem type reviewed. It provides the reader with comprehensive practice, which will help the student gain confidence, knowledge and test taking skills necessary to do well

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the AP Exam. The exams in this book are in the same format as the Multiple-choice section of the actual AP Exam. The problems in these exams are similar in their level of difficulty, wording and variety to those on the AP Exam. The reference section of the book contains formulas and theorems needed for the AP test, which are carefully chosen, conveniently organized and easy to access and view. Another important feature of this book is a collection of effective tips for the AP Test, which helps the reader to avoid common mistakes, flaws and misconceptions. These helpful tips have been collected by the author over the years and shared with her own students, and are now being shared with you. This book has helped many students all over the U.S. to succeed on the AP exam. Also suggested for success on the AP Exam is Mathboat's "AP Calculus BC Lecture Notes" which is available on

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Amazon.com. It contains the slides printouts of all the Powerpoint presentations on topics covered by the entire Calculus BC curriculum and tested on the BC Exam. These Lecture Notes can be used for both review and learning, and are a perfect fit for every student no matter their current knowledge of Calculus. The ebook version of it, "AP Calculus Interactive lectures vol.1 and vol.2", is available on iTunes iBookstore. This ebook includes a complete collection of PowerPoint Presentations, covering the whole AP Calculus AB course. They come with theorems, proofs and numerous examples, approachable methodology, clear explanations and tested memorization techniques. They are an indispensable resource for a rigorous understanding of all Calculus concepts and problem solving strategies.

Basic Category Theory

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26th European Symposium on Programming, ESOP 2017, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2017, Uppsala, Sweden, April 22–29, 2017, Proceedings

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up with a series of multiple-choice questions before diving into the free-response problems which constitute the bulk of the book. The first few problems in each chapter are derivations of key results/theorems that are useful when solving other problems. While the book is calculus-based, it can also easily be used in algebra-based courses. The problems that require calculus (only a sixth of the total number) are listed in an appendix, allowing students to steer clear of those if they wish. Additional details: (1)

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Thomas' Calculus

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Business as a Calling

Why do we work so hard at our jobs, day after day? Why is a job well done important to us? We know there is more to a career than money and prestige, but what exactly do we mean by "fulfillment"? These are old but important questions. They belong with some newly discovered ones: Why are people in business more religious than the population as a whole? What do people of business know, and what do they do, that anchors their faith? In this ground-breaking and inspiring book, Michael Novak ties

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together these crucial questions by explaining the meaning of work as a vocation. Work should be more than just a job -- it should be a calling. This book explains an important part of our lives in a new way, and readers will instantly recognize themselves in its pages. A larger proportion than ever before of the world's Christians, Jews, and other peoples of faith are spending their working lives in business. Business is a profession worthy of a person's highest ideals and aspirations, fraught with moral possibilities both of great good and of great evil. Novak takes on agonizing problems, such as downsizing, the tradeoffs that must sometimes be faced between

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profits and human rights, and the pitfalls of philanthropy. He also examines the daily questions of how an honest day's work contributes to the good of many people, both close at hand and far away. Our work connects us with one another. It also makes possible the universal advance out of poverty, and it is an essential prerequisite of democracy and the institutions of civil society. This book is a spiritual feast, for everyone who wants to examine how to make a life through making a living.

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The environment for obtaining information and providing statistical data for policy makers and the public has changed significantly in the past decade, raising questions about the fundamental survey paradigm that underlies federal statistics. New data sources provide opportunities to develop a new paradigm that can improve timeliness, geographic or subpopulation detail, and statistical efficiency. It also has the potential to reduce the costs of producing federal statistics. The panel's first report described federal statistical agencies' current paradigm, which relies heavily on sample surveys for producing national statistics, and challenges agencies are facing; the

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legal frameworks and mechanisms for protecting the privacy and confidentiality of statistical data and for providing researchers access to data, and challenges to those frameworks and mechanisms; and statistical agencies access to alternative sources of data. The panel recommended a new approach for federal statistical programs that would combine diverse data sources from government and private sector sources and the creation of a new entity that would provide the foundational elements needed for this new approach, including legal authority to access data and protect privacy. This second of the panel's two reports builds on the analysis, conclusions, and

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recommendations in the first one. This report assesses alternative methods for implementing a new approach that would combine diverse data sources from government and private sector sources, including describing statistical models for combining data from multiple sources; examining statistical and computer science approaches that foster privacy protections; evaluating frameworks for assessing the quality and utility of alternative data sources; and various models for implementing the recommended new entity. Together, the two reports offer ideas and recommendations to help federal statistical agencies examine and evaluate data from alternative

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sources and then combine them as appropriate to provide the country with more timely, actionable, and useful information for policy makers, businesses, and individuals.

Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also

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covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students,

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Computational science is an exciting new field at

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the intersection of the sciences, computer science, and mathematics because much scientific investigation now involves computing as well as theory and experiment. This textbook provides students with a versatile and accessible introduction to the subject. It assumes only a background in high school algebra, enables instructors to follow tailored pathways through the material, and is the only textbook of its kind designed specifically for an introductory course in the computational science and engineering curriculum. While the text itself is generic, an

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accompanying website offers tutorials and files in a variety of software packages. This fully updated and expanded edition features two new chapters on agent-based simulations and modeling with matrices, ten new project modules, and an additional module on diffusion. Besides increased treatment of high-performance computing and its applications, the book also includes additional quick review questions with answers, exercises, and individual and team projects. The only introductory textbook of its kind—now fully

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Fast Track to a 5 will help you prepare for the AP exam quickly, efficiently, and, above all, effectively. Right from the start, you will identify the course topics you most need practice on and be able to focus your studying, while getting a review opportunity for your general knowledge. Your Fast Track to a 5 gives you references to your textbook, Calculus: Early Transcendentals Functions by Larson and Edwards, allowing you to review the facts and concepts in depth. You will be primed for taking the exam and on your way to a 5! Fast Track to a 5 will save you time in

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preparing your students for the AP exam! Students will be able to work through the book more independently because, unlike others, this test prep book is keyed to Larson and Edwards' Calculus: Early Transcendentals Functions. The answers to the diagnostic tests, the practice questions with the review sections, and the answers to the full-length practice exams are referenced to specific pages in the textbook. Students can quickly and easily refer to the right textbook pages to review all key concepts and especially to reinforce material that might require

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extra attention. Preparing for the Advanced Placement Calculus AB and Calculus BC Examinations is keyed to the Fourth and Fifth Editions of Larson and Edwards' Calculus: Early Transcendentals Functions. The diagnostic test, practice questions, and full-length practice tests include all the types of questions found on the exam, including multiple-choice and free-response.

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—Mathematika An Introduction to Numerical Methods and Analysis addresses the mathematics underlying approximation and scientific computing and successfully explains where approximation methods come from, why they sometimes work (or don't work), and when to use one of the many techniques that are available. Written in a style that emphasizes readability and usefulness for the numerical methods novice, the book begins with basic, elementary material and gradually builds up to more advanced topics. A

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selection of concepts required for the study of computational mathematics is introduced, and simple approximations using Taylor's Theorem are also treated in some depth. The text includes exercises that run the gamut from simple hand computations, to challenging derivations and minor proofs, to programming exercises. A greater emphasis on applied exercises as well as the cause and effect associated with numerical mathematics is featured throughout the book. An Introduction to Numerical Methods and

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detail they deal with semantic foundation and type system for probabilistic programming; techniques for verifying concurrent or higher-order programs; programming languages for arrays or web data; program analysis and verification of non-standard program properties; foundation and application of interactive theorem proving; graph rewriting; separation logic; session type; type theory; and implicit computational complexity.

An authorised reissue of the long out of print classic textbook, *Advanced Calculus* by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the

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advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view,

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together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

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