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Precalculus with Limits by Ron Larson 2010-01-01
With the same design and feature sets as the market leading Precalculus, 8/e, this addition to the Larson Precalculus series provides both students and instructors with sound, consistently structured explanations of the mathematical concepts. Designed for a two-term course, this text contains the features that have made

Precalculus a complete solution for both students and instructors: interesting applications, cutting-edge design, and innovative technology combined with an abundance of carefully written exercises. In addition to a brief algebra review and the core precalculus topics, PRECALCULUS WITH LIMITS covers analytic geometry in three dimensions and introduces

concepts covered in calculus. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Introduction to Real Analysis William F. Trench 2003

Using an extremely clear and informal approach, this book introduces readers to a rigorous understanding of mathematical analysis and presents challenging math concepts as clearly as possible. The real number system. Differential calculus of functions of one variable. Riemann integral functions of one variable. Integral calculus of real-valued functions. Metric Spaces. For those who want to gain an understanding of mathematical analysis and challenging mathematical concepts.

New Elementary Mathematics Syllabus D Sin Kwai Meng 1999

New Syllabus Mathematics Joseph B. W. Yeo 2014

Discrete Mathematics for Computer Science

- Gary Haggard 2005

Master the fundamentals of discrete mathematics with DISCRETE MATHEMATICS FOR COMPUTER SCIENCE with Student Solutions Manual CD-ROM! An increasing number of computer scientists from diverse areas are using discrete mathematical structures to explain concepts and problems and this mathematics text shows you how to express precise ideas in clear mathematical language. Through a wealth of exercises and examples, you will learn how mastering discrete mathematics will help you develop important reasoning skills that will continue to be useful throughout your career.

Linear Algebra and Its Applications, Global Edition David C. Lay 2015-06-03

NOTE: Before purchasing, check with your instructor to ensure you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, and

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registrations are not transferable. To register for and use Pearson's MyLab & Mastering products, you may also need a Course ID, which your instructor will provide. Used books, rentals, and purchases made outside of PearsonIf purchasing or renting from companies other than Pearson, the access codes for Pearson's MyLab & Mastering products may not be included, may be incorrect, or may be previously redeemed. Check with the seller before completing your purchase. Note: You are purchasing a standalone product; MyMathLab does not come packaged with this content. MyMathLab is not a self-paced technology and should only be purchased when required by an instructor. If you would like to purchase "both "the physical text and MyMathLab, search for: 9780134022697 / 0134022696 Linear Algebra and Its Applications plus New MyMathLab with Pearson eText -- Access Card Package, 5/e With traditional linear algebra texts, the course is relatively easy for students during the early stages as material is

presented in a familiar, concrete setting. However, when abstract concepts are introduced, students often hit a wall. Instructors seem to agree that certain concepts (such as linear independence, spanning, subspace, vector space, and linear transformations) are not easily understood and require time to assimilate. These concepts are fundamental to the study of linear algebra, so students' understanding of them is vital to mastering the subject. This text makes these concepts more accessible by introducing them early in a familiar, concrete "Rⁿ" setting, developing them gradually, and returning to them throughout the text so that when they are discussed in the abstract, students are readily able to understand.

Linear Algebra - Jim Hefferon 2015

"This text covers a standard first course : Gauss's method, vector spaces, linear maps and matrices, determinants, and eigenvalues and eigenvectors. In addition, each chapter ends with some topics such as brief applications.

What sets it apart is careful motivation, many examples, and extensive exercise sets. Together these help each student master the material of this course, and also help an instructor develop that student's level of mathematical maturity. This book has been available online for many years and is widely used, both in classrooms and for self-study. It is supported by worked answers for all exercises, beamer slides for classroom use, and a lab manual of computer work"--Page 4 of cover.

Thomas' Calculus - Weir 2008

Applied combinatorics - 1980

Category Theory in Context - Emily Riehl
2017-03-09

Introduction to concepts of category theory — categories, functors, natural transformations, the Yoneda lemma, limits and colimits, adjunctions, monads — revisits a broad range of mathematical examples from the categorical

perspective. 2016 edition.

Putnam and Beyond - Răzvan Gelca
2017-09-19

This book takes the reader on a journey through the world of college mathematics, focusing on some of the most important concepts and results in the theories of polynomials, linear algebra, real analysis, differential equations, coordinate geometry, trigonometry, elementary number theory, combinatorics, and probability. Preliminary material provides an overview of common methods of proof: argument by contradiction, mathematical induction, pigeonhole principle, ordered sets, and invariants. Each chapter systematically presents a single subject within which problems are clustered in each section according to the specific topic. The exposition is driven by nearly 1300 problems and examples chosen from numerous sources from around the world; many original contributions come from the authors. The source, author, and historical background

are cited whenever possible. Complete solutions to all problems are given at the end of the book. This second edition includes new sections on quadratic polynomials, curves in the plane, quadratic fields, combinatorics of numbers, and graph theory, and added problems or theoretical expansion of sections on polynomials, matrices, abstract algebra, limits of sequences and functions, derivatives and their applications, Stokes' theorem, analytical geometry, combinatorial geometry, and counting strategies. Using the W.L. Putnam Mathematical Competition for undergraduates as an inspiring symbol to build an appropriate math background for graduate studies in pure or applied mathematics, the reader is eased into transitioning from problem-solving at the high school level to the university and beyond, that is, to mathematical research. This work may be used as a study guide for the Putnam exam, as a text for many different problem-solving courses, and as a source of problems for standard

courses in undergraduate mathematics. Putnam and Beyond is organized for independent study by undergraduate and graduate students, as well as teachers and researchers in the physical sciences who wish to expand their mathematical horizons.

Convex Optimization - Stephen Boyd 2004-03-08

A comprehensive introduction to the tools, techniques and applications of convex optimization.

GRE Math Workbook - Kaplan Test Prep 2015-12-01

Kaplan's GRE Math Workbook provides hundreds of realistic practice questions and exercises to help you prepare for the Math portion of the GRE. With expert strategies, content review, and realistic practice sets, GRE Math Workbook will help you face the test with confidence. The Best Review Six full-length Quantitative Reasoning practice sets Diagnostic tool for even more targeted Quantitative practice Review of crucial math skills and

concepts, including arithmetic, algebra, data interpretation, geometry, and probability Key strategies for all Quantitative Reasoning question types on the revised GRE An advanced content review section to help you score higher Expert Guidance We know the test: The Kaplan team has spent years studying every GRE-related document available. Kaplan's expert psychometricians ensure our practice questions and study materials are true to the test. We invented test prep—Kaplan (www.kaptest.com) has been helping students for almost 80 years. Our proven strategies have helped legions of students achieve their dreams.

Computational Fluid Dynamics: Principles and Applications - Jiri Blazek 2005-12-20

Computational Fluid Dynamics (CFD) is an important design tool in engineering and also a substantial research tool in various physical sciences as well as in biology. The objective of this book is to provide university students with a solid foundation for understanding the numerical

methods employed in today's CFD and to familiarise them with modern CFD codes by hands-on experience. It is also intended for engineers and scientists starting to work in the field of CFD or for those who apply CFD codes. Due to the detailed index, the text can serve as a reference handbook too. Each chapter includes an extensive bibliography, which provides an excellent basis for further studies.

Mathematics of Public Key Cryptography -

Steven D. Galbraith 2012-03-15

This advanced graduate textbook gives an authoritative and insightful description of the major ideas and techniques of public key cryptography.

Mathematics for Machine Learning Marc Peter Deisenroth 2020-04-23

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are

traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Computational Complexity Sanjeev Arora

2009-04-20

New and classical results in computational complexity, including interactive proofs, PCP, derandomization, and quantum computation. Ideal for graduate students.

Mirror Symmetry - Kentaro Hori 2003

This thorough and detailed exposition is the result of an intensive month-long course on mirror symmetry sponsored by the Clay Mathematics Institute. It develops mirror symmetry from both mathematical and physical perspectives with the aim of furthering interaction between the two fields. The material will be particularly useful for mathematicians and physicists who wish to advance their understanding across both disciplines. Mirror symmetry is a phenomenon arising in string theory in which two very different manifolds give rise to equivalent physics. Such a correspondence has significant mathematical consequences, the most familiar of which involves the enumeration of holomorphic curves

inside complex manifolds by solving differential equations obtained from a "mirror" geometry. The inclusion of D-brane states in the equivalence has led to further conjectures involving calibrated submanifolds of the mirror pairs and new (conjectural) invariants of complex manifolds: the Gopakumar-Vafa invariants. This book gives a single, cohesive treatment of mirror symmetry. Parts 1 and 2 develop the necessary mathematical and physical background from "scratch". The treatment is focused, developing only the material most necessary for the task. In Parts 3 and 4 the physical and mathematical proofs of mirror symmetry are given. From the physics side, this means demonstrating that two different physical theories give isomorphic physics. Each physical theory can be described geometrically, and thus mirror symmetry gives rise to a "pairing" of geometries. The proof involves applying $R \rightarrow 1/R$ circle duality to the phases of the fields in the gauged

linear sigma model. The mathematics proof develops Gromov-Witten theory in the algebraic setting, beginning with the moduli spaces of curves and maps, and uses localization techniques to show that certain hypergeometric functions encode the Gromov-Witten invariants in genus zero, as is predicted by mirror symmetry. Part 5 is devoted to advanced topics. This one-of-a-kind book is suitable for graduate students and research mathematicians interested in mathematics and mathematical and theoretical physics.

Public Speaking: Choices and Responsibility

William Keith 2016-01-01

Packed with hands-on applications, PUBLIC SPEAKING: CHOICES AND RESPONSIBILITY, 2e delivers a practical and up-to-date public speaking text based on rhetorical theory. It emphasizes the role of choices and civic engagement/responsibility throughout in narrative, features, and examples. It also describes the audience as a public to which the

speaker belongs, rather than as a separate entity defined only by demographics. The Second Edition includes new coverage of Monroe's Motivated Sequence, discussions of TED talks and PechaKucha, extended treatment of fallacies, and expanded emphasis on outlining. In addition, new Remix features apply the latest research in business and social science to public speaking skills. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The Mathematics of Diffusion - John Crank
1979

Though it incorporates much new material, this new edition preserves the general character of the book in providing a collection of solutions of the equations of diffusion and describing how these solutions may be obtained.

Introduction to Probability - Joseph K.
Blitzstein 2014-07-24

Developed from celebrated Harvard statistics

lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional Exercises And Problems In Linear Algebra
John M Erdman 2020-09-28

This book contains an extensive collection of exercises and problems that address relevant topics in linear algebra. Topics that the author finds missing or inadequately covered in most existing books are also included. The exercises will be both interesting and helpful to an average student. Some are fairly routine calculations, while others require serious thought. The format of the questions makes them suitable for teachers to use in quizzes and assigned homework. Some of the problems may provide excellent topics for presentation and discussions. Furthermore, answers are given for

all odd-numbered exercises which will be extremely useful for self-directed learners. In each chapter, there is a short background section which includes important definitions and statements of theorems to provide context for the following exercises and problems.

Several Real Variables - Shmuel Kantorovitz

2016-02-09

This undergraduate textbook is based on lectures given by the author on the differential and integral calculus of functions of several real variables. The book has a modern approach and includes topics such as:

- The p -norms on vector space and their equivalence
- The Weierstrass and Stone-Weierstrass approximation theorems
- The differential as a linear functional; Jacobians, Hessians, and Taylor's theorem in several variables
- The Implicit Function Theorem for a system of equations, proved via Banach's Fixed Point Theorem
- Applications to Ordinary Differential Equations
- Line integrals and an introduction to surface integrals

This

book features numerous examples, detailed proofs, as well as exercises at the end of sections. Many of the exercises have detailed solutions, making the book suitable for self-study. Several Real Variables will be useful for undergraduate students in mathematics who have completed first courses in linear algebra and analysis of one real variable.

Introduction to Probability - Charles Miller

Grinstead 2012-10-30

This text is designed for an introductory probability course at the university level for sophomores, juniors, and seniors in mathematics, physical and social sciences, engineering, and computer science. It presents a thorough treatment of ideas and techniques necessary for a firm understanding of the subject.

A Concise Introduction to Pure Mathematics

Martin Liebeck 2018-09-03

Accessible to all students with a sound background in high school mathematics, A

Concise Introduction to Pure Mathematics, Fourth Edition presents some of the most fundamental and beautiful ideas in pure mathematics. It covers not only standard material but also many interesting topics not usually encountered at this level, such as the theory of solving cubic equations; Euler's formula for the numbers of corners, edges, and faces of a solid object and the five Platonic solids; the use of prime numbers to encode and decode secret information; the theory of how to compare the sizes of two infinite sets; and the rigorous theory of limits and continuous functions. New to the Fourth Edition Two new chapters that serve as an introduction to abstract algebra via the theory of groups, covering abstract reasoning as well as many examples and applications New material on inequalities, counting methods, the inclusion-exclusion principle, and Euler's phi function Numerous new exercises, with solutions to the odd-numbered ones Through careful

explanations and examples, this popular textbook illustrates the power and beauty of basic mathematical concepts in number theory, discrete mathematics, analysis, and abstract algebra. Written in a rigorous yet accessible style, it continues to provide a robust bridge between high school and higher-level mathematics, enabling students to study more advanced courses in abstract algebra and analysis.

Discrete Mathematics and Its Applications -

Kenneth H. Rosen 2018-05

A precise, relevant, comprehensive approach to mathematical concepts...

Discovering Mathematics: Student Book 1C

- Victor Chow 2018-07-30

This Student Book is for Higher tier students in Year 7. It has been adapted from the leading Singapore course to fully match the English Key Stage 3 National Curriculum. Rigorously reviewed by experienced UK and Singapore educators, it harnesses authentic Singaporean

mastery values and embeds a growth mindset that everyone can succeed at maths.

National Curriculum Maths Practice Book for Year 5 - Scholastic 2014-07-10

This book can help your child by providing a whole year of ready to go activities and support on key Mathematics topics which will be being taught in school from 2014. Did you know that children in Year 5 now need to; know and use prime numbers, prime factors and composite numbers; know all tables facts up to 12 x 12; understand and use equivalences between metric and imperial units such as inches, pounds and pints? * Workbooks for home learning * Linked directly to what your children will be learning in school * A linked website provides additional activities, answers and support for parents * Developed by teachers to ensure the best possible support for the new 2014 National Curriculum.

Data Mining: Concepts and Techniques - Jiawei Han 2011-06-09

Data Mining: Concepts and Techniques provides the concepts and techniques in processing gathered data or information, which will be used in various applications. Specifically, it explains data mining and the tools used in discovering knowledge from the collected data. This book is referred as the knowledge discovery from data (KDD). It focuses on the feasibility, usefulness, effectiveness, and scalability of techniques of large data sets. After describing data mining, this edition explains the methods of knowing, preprocessing, processing, and warehousing data. It then presents information about data warehouses, online analytical processing (OLAP), and data cube technology. Then, the methods involved in mining frequent patterns, associations, and correlations for large data sets are described. The book details the methods for data classification and introduces the concepts and methods for data clustering. The remaining chapters discuss the outlier detection and the trends, applications, and research frontiers in

data mining. This book is intended for Computer Science students, application developers, business professionals, and researchers who seek information on data mining. Presents dozens of algorithms and implementation examples, all in pseudo-code and suitable for use in real-world, large-scale data mining projects. Addresses advanced topics such as mining object-relational databases, spatial databases, multimedia databases, time-series databases, text databases, the World Wide Web, and applications in several fields. Provides a comprehensive, practical look at the concepts and techniques you need to get the most out of your data.

Book of Proof - Richard H. Hammack

2016-01-01

This book is an introduction to the language and standard proof methods of mathematics. It is a bridge from the computational courses (such as calculus or differential equations) that students typically encounter in their first year of college

to a more abstract outlook. It lays a foundation for more theoretical courses such as topology, analysis and abstract algebra. Although it may be more meaningful to the student who has had some calculus, there is really no prerequisite other than a measure of mathematical maturity.

Proofs from THE BOOK - Martin Aigner

2013-06-29

According to the great mathematician Paul Erdős, God maintains perfect mathematical proofs in The Book. This book presents the authors' candidates for such "perfect proofs," those which contain brilliant ideas, clever connections, and wonderful observations, bringing new insight and surprising perspectives to problems from number theory, geometry, analysis, combinatorics, and graph theory. As a result, this book will be fun reading for anyone with an interest in mathematics.

Introduction to Random Graphs - Alan Frieze

2016

The text covers random graphs from the basic to

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the advanced, including numerous exercises and recommendations for further reading.

Principles of Mathematical Analysis - Walter Rudin 1976

The third edition of this well known text continues to provide a solid foundation in mathematical analysis for undergraduate and first-year graduate students. The text begins with a discussion of the real number system as a complete ordered field. (Dedekind's construction is now treated in an appendix to Chapter I.) The topological background needed for the development of convergence, continuity, differentiation and integration is provided in Chapter 2. There is a new section on the gamma function, and many new and interesting exercises are included. This text is part of the Walter Rudin Student Series in Advanced Mathematics.

Mathematics Assessment and Evaluation

Thomas A. Romberg 1992-01-01

Are current testing practices consistent with the

goals of the reform movement in school mathematics? If not, what are the alternatives? How can authentic performance in mathematics be assessed? These and similar questions about tests and their uses have forced those advocating change to examine the way in which mathematical performance data is gathered and used in American schools. This book provides recent views on the issues surrounding mathematics tests, such as the need for valid performance data, the implications of the Curriculum and Evaluation Standards for School Mathematics for test development, the identification of valid items and tests in terms of the Standards, the procedures now being used to construct a sample of state assessment tests, gender differences in test taking, and methods of reporting student achievement.

Discovering Advanced Algebra - Gerald Murdock 2010

Changes in society and the workplace require a careful analysis of the algebra curriculum that

we teach. The curriculum, teaching, and learning of yesterday do not meet the needs of today's students.

Mathematics for Computer Science - Eric Lehman 2017-03-08

This book covers elementary discrete mathematics for computer science and engineering. It emphasizes mathematical definitions and proofs as well as applicable methods. Topics include formal logic notation, proof methods; induction, well-ordering; sets, relations; elementary graph theory; integer congruences; asymptotic notation and growth of functions; permutations and combinations, counting principles; discrete probability. Further selected topics may also be covered, such as recursive definition and structural induction; state machines and invariants; recurrences; generating functions.

An Introduction to Financial Option Valuation - Desmond Higham 2004-04-15

This is a lively textbook providing a solid

introduction to financial option valuation for undergraduate students armed with a working knowledge of a first year calculus. Written in a series of short chapters, its self-contained treatment gives equal weight to applied mathematics, stochastics and computational algorithms. No prior background in probability, statistics or numerical analysis is required. Detailed derivations of both the basic asset price model and the Black-Scholes equation are provided along with a presentation of appropriate computational techniques including binomial, finite differences and in particular, variance reduction techniques for the Monte Carlo method. Each chapter comes complete with accompanying stand-alone MATLAB code listing to illustrate a key idea. Furthermore, the author has made heavy use of figures and examples, and has included computations based on real stock market data.

Introduction to Java Programming and Data Structures, Comprehensive Version, Global

Edition - Y. Daniel Liang 2018-02-18

This text is intended for a 1-semester CS1 course sequence. The Brief Version contains the first 18 chapters of the Comprehensive Version. The first 13 chapters are appropriate for preparing the AP Computer Science exam. For courses in Java Programming. A fundamentals-first introduction to basic programming concepts and techniques Designed to support an introductory programming course, Introduction to Java Programming and Data Structures teaches concepts of problem-solving and object-orientated programming using a fundamentals-first approach. Beginner programmers learn critical problem-solving techniques then move on to grasp the key concepts of object-oriented, GUI programming, advanced GUI and Web programming using JavaFX. This course approaches Java GUI programming using JavaFX, which has replaced Swing as the new GUI tool for developing cross-platform-rich Internet applications and is simpler to learn and

use. The 11th edition has been completely revised to enhance clarity and presentation, and includes new and expanded content, examples, and exercises.

Elementary Technical Mathematics - Dale Ewen 2014-01-01

ELEMENTARY TECHNICAL MATHEMATICS Eleventh Edition is written to help students with minimal math background successfully prepare for technical, trade, allied health, or Tech Prep programs. The authors focus on fundamental concepts in basic arithmetic including the metric system and measurement, algebra, geometry, trigonometry, and statistics, which are supported by thousands of examples, exercises, and applications surrounding such fields as industrial and construction trades, electronics, agriculture/horticulture, allied health, CAD/drafting, HVAC, welding, auto/diesel service, aviation, natural resources, culinary arts, business/personal finance, and others. For this revision, the authors have added over 150

new exercises, 30 new examples, new applications categories, and a new appendix on simple inequalities. The goal of ELEMENTARY TECHNICAL MATHEMATICS is to engage students and provide them with the math background they need to succeed in future courses and careers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

An Introduction to Abstract Mathematics

Robert J. Bond 2007-08-24

Bond and Keane explicate the elements of logical, mathematical argument to elucidate the meaning and importance of mathematical rigor. With definitions of concepts at their disposal, students learn the rules of logical inference, read and understand proofs of theorems, and write their own proofs all while becoming familiar with the grammar of mathematics and its style. In addition, they will develop an

appreciation of the different methods of proof (contradiction, induction), the value of a proof, and the beauty of an elegant argument. The authors emphasize that mathematics is an ongoing, vibrant discipline its long, fascinating history continually intersects with territory still uncharted and questions still in need of answers. The authors extensive background in teaching mathematics shines through in this balanced, explicit, and engaging text, designed as a primer for higher-level mathematics courses. They elegantly demonstrate process and application and recognize the byproducts of both the achievements and the missteps of past thinkers. Chapters 1-5 introduce the fundamentals of abstract mathematics and chapters 6-8 apply the ideas and techniques, placing the earlier material in a real context. Readers interest is continually piqued by the use of clear explanations, practical examples, discussion and discovery exercises, and historical comments.