

Linear Algebra With Applications Alternate Edition 8th Eighth Edition By Williams Gareth Published By Jones Bartlett Learning 2012

Now with a full-color design, the new Fourth Edition of Zill's Advanced Engineering Mathematics provides an in-depth overview of the many mathematical topics necessary for students planning a career in engineering or the sciences. A key strength of this text is Zill's emphasis on differential equations as mathematical models, discussing the constructs and pitfalls of each. The Fourth Edition is comprehensive, yet flexible, to meet the unique needs of various course offerings ranging from ordinary differential equations to vector calculus. Numerous new projects contributed by esteemed mathematicians have been added. New modern applications and engaging projects makes Zill's classic text a must-have text and resource for Engineering Math students! Ideal for the one-semester undergraduate course, Basic Real Analysis is intended for students who have recently completed a traditional calculus course and proves the basic theorems of Single Variable Calculus in a simple and accessible manner. It gradually builds upon key material as to not overwhelm students beginning the course and becomes more rigorous as they progresses. Optional appendices on sets and functions, countable and uncountable sets, and point set topology are included for those instructors who wish include these topics in their course. The author includes hints throughout the text to help students solve challenging problems. An online instructor's solutions manual is also available.

Building upon the sequence of topics of the popular 5th Edition, Linear Algebra with Applications, Alternate Seventh Edition provides instructors with an alternative presentation of course material. In this edition earlier chapters cover systems of linear equations, matrices, and determinates. The vector space R^n is introduced in chapter 4, leading directly into general vector spaces and linear transformations. This order of topics is ideal for those preparing to use linear equations and matrices in their own fields. New exercises and modern, real-world applications allow students to test themselves on relevant key material and a MATLAB manual, included as an appendix, provides 29 sections of computational problems.

Part of the new Digital Filmmaker Series! Digital Filmmaking: An Introduction is the first book in the new Digital Filmmaker Series. Designed for an introductory level course in digital filmmaking, it is intended for anyone who has an interest in telling stories with pictures and sound and won't assume any familiarity with equipment or concepts on the part of the student. In addition to the basics of shooting and editing, different story forms are introduced from documentary and live events through fictional narratives. Each of the topics is covered in enough depth to allow anyone with a camera and a computer to begin creating visual projects of quality.

Incorporating Zill's student-friendly writing style and modern examples, Precalculus with Calculus Previews, Fifth Edition includes all of the outstanding features and learning tools found in the original text, Essentials of Precalculus with Calculus Previews, while incorporating additional coverage that some courses may require. With a continued aim to keep the text complete, yet concise, the authors added four additional chapters making the text a clear choice for many mainstream courses. This student-friendly, four-

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2012

color text offers numerous exercise sets and examples to aid in students' learning and understanding, and graphs and figures throughout serve to better illuminate key concepts. The exercise sets include engaging problems that focus on algebra, graphing, and function theory, the sub-text of so many calculus problems. The authors are careful to use the terminology of calculus in an informal and comprehensible way to facilitate the student's successful transition into future calculus courses. - Includes a new chapter, - Provides a "no nonsense" approach to precalculus with an informal, intuitive, and straightforward writing style. - Incorporates the terminology used in calculus in an informal way to acclimate students to these new terms. - Includes over 1600 figures to help illuminate key concepts. - Notes from the Classroom sections address a variety of student/textbook/classroom/calculus issues such as alternative terminology, reinforcement of important concepts, tips on memorization, misinterpretations, common errors, solution procedures, calculators, and advice on the importance of neatness and organization. - Calculus Previews conclude each chapter and highlight a single calculus concept with a focus on the algebraic, logarithmic, and trigonometric manipulations necessary for successfully completing the problem. Translating Words into Functions illustrates how to translate a verbal description into a symbolic representation of a function.

This textbook invites students to discover abstract ideas in linear algebra within the context of applications. Diffusion welding and radiography, the two central applications, are introduced early on and used throughout to frame the practical uses of important linear algebra concepts. Students will learn these methods through explorations, which involve making conjectures and answering open-ended questions. By approaching the subject in this way, new avenues for learning the material emerge: For example, vector spaces are introduced early as the appropriate setting for the applied problems covered; and an alternative, determinant-free method for computing eigenvalues is also illustrated. In addition to the two main applications, the authors also describe possible pathways to other applications, which fall into three main areas: Data and image analysis (including machine learning); dynamical modeling; and optimization and optimal design. Several appendices are included as well, one of which offers an insightful walkthrough of proof techniques. Instructors will also find an outline for how to use the book in a course. Additional resources can be accessed on the authors' website, including code, data sets, and other helpful material. Application-Inspired Linear Algebra will motivate and immerse undergraduate students taking a first course in linear algebra, and will provide instructors with an indispensable, application-first approach.

Perfect for the one-term course, Essentials of Precalculus with Calculus Previews, Fifth Edition provides a complete, yet concise, introduction to precalculus concepts, focusing on important topics that will be of direct and immediate use in most calculus courses. Consistent with Professor Zill's eloquent writing style, this full-color text offers numerous exercise sets and examples to aid in student comprehension, while graphs and figures throughout serve to illuminate key concepts. The exercise sets include engaging problems that focus on algebra, graphing, and function theory, the sub-text of many calculus problems. The authors are careful to use calculus terminology in an informal and accessible way to facilitate the students successful transition into future calculus courses. With an outstanding collection of student and instructor resources,

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Essentials of Precalculus with Calculus Previews offers a complete teaching and learning package. Key Features:

- Available with WebAssign Online Homework and Grading System
- Vibrant four-color design illuminates key concepts and improves students' comprehension of graphs and figures.
- Translating Words into Functions section illustrates how to translate a verbal description into a symbolic representation of a function and demonstrates these translations with actual calculus problems.
- Chapter Review Exercises include problems that focus on the algebra, graphing, and function theory, the sub-text of so many calculus problems. Review questions include conceptual fill-in-the-blank and true/false, as well as numerous thought-provoking exercises.
- The Calculus Preview found at the end of each chapter offers students a glimpse of a single calculus concept along with the algebraic, logarithmic, and trigonometric manipulations that are necessary for the successful completion on typical problems related to that concept.
- Provides a complete teaching and learning program with numerous student and instructor resources, including the Student Resource Manual, WebAssign Access, Complete eLearning Center, and
- Complete Instructor Solutions Manual.
- Includes a new section on simple harmonic motion in Chapter 4.
- A new section of parametric equations, as well as a new calculus preview of 3-space, has been added to Chapter 6.
- Rotation of polar graphs is now discussed in Section 6.6
- The discussion of the hyperbolic functions in Section 5.4 has been expanded.
- Numerous new problems have been added throughout the text.
- The final exam at the end of the text has been expanded.

This is the second edition of the best-selling introduction to linear algebra.

Presupposing no knowledge beyond calculus, it provides a thorough treatment of all the basic concepts, such as vector space, linear transformation and inner product. The concept of a quotient space is introduced and related to solutions of linear system of equations, and a simplified treatment of Jordan normal form is given. Numerous applications of linear algebra are described, including systems of linear recurrence relations, systems of linear differential equations, Markov processes, and the Method of Least Squares. An entirely new chapter on linear programming introduces the reader to the simplex algorithm with emphasis on understanding the theory behind it. The book is addressed to students who wish to learn linear algebra, as well as to professionals who need to use the methods of the subject in their own fields.

The Student Solutions Manual To Accompany Linear Algebra With Applications, Alternate Eighth Edition Is Designed To Help You Get The Most Out Of Your Linear Algebra Course. It Provides The Answers To Selected Exercises In Each Chapter Of The Textbook. This Manual Will Help You To Assess The Progress You Are Making In Understanding The Concepts Presented In Each Chapter. Students, Use This Tool To:

- Check Answers To Selected Exercises
- Confirm That You Understand Ideas And Concepts
- Review Past Material
- Prepare For Future Topics

With an emphasis on problem-solving and packed with engaging, student-friendly exercise sets and examples, the Third Edition of Zill and Dewar's College Algebra is the perfect text for the traditional college algebra course. Zill's renowned

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2012

pedagogy and accessible, straightforward writing style urges students to delve into the content and experience the mathematics first hand through numerous problem sets. These problem sets give students the opportunity to test their comprehension, challenge their understanding, and apply their knowledge to real-world situations. A robust collection of student and instructor ancillaries include: WebAssign access, PowerPoint Lecture Slides, Test Bank, Student Resource Manual and more.

Elementary Linear Algebra 11th edition gives an elementary treatment of linear algebra that is suitable for a first course for undergraduate students. The aim is to present the fundamentals of linear algebra in the clearest possible way; pedagogy is the main consideration. Calculus is not a prerequisite, but there are clearly labeled exercises and examples (which can be omitted without loss of continuity) for students who have studied calculus.

Modern and comprehensive, the new Fifth Edition of Zill's Advanced Engineering Mathematics, Fifth Edition provides an in depth overview of the many mathematical topics required for students planning a career in engineering or the sciences. A key strength of this best-selling text is Zill's emphasis on differential equations as mathematical models, discussing the constructs and pitfalls of each. The Fifth Edition is a full compendium of topics that are most often covered in the Engineering Mathematics course or courses, and is extremely flexible, to meet the unique needs of various course offerings ranging from ordinary differential equations to vector calculus. The new edition offers a reorganized project section to add clarity to course material and new content has been added throughout, including new discussions on: Autonomous Des and Direction Fields; Translation Property, Bessel Functions, LU-Factorization, Da Vinci's apparatus for determining speed and more. The Essentials of Computer Organization and Architecture, Fourth Edition was recently awarded a "Textbook Excellence Award" ("Texty") from the Text and Academic Authors Association (TAA) the only association devoted solely to serving textbook and academic authors since 1987 (www.TAAonline.net). The "Textbook Excellence Award" recognizes works for their excellence in the areas of content, presentation, appeal, and teachability. This is the third Texty award for Null and Lobur. They also won for their Second and Third Editions of this text. New and Key Features of the Fifth Edition: - Eight all-new contributed applied project problems spread throughout the text, including an in-depth discussion of the mathematics and history of the Paris Guns of World War I - An all-new section on the LU-factorization of a matrix - Updated examples throughout - Revisions and reorganization throughout the text to improve clarity and flow - An expanded discussion of spherical Bessel functions - All-new boundary-value problems added to the chapters on partial differential equations - Two new chapters, Probability and Statistics, are available online - Projects, formerly found at the beginning of the text, are now included within the appropriate chapters. - The Student Companion Website, included with every new copy, includes a wealth of study aids, learning tools, projects, and essays to

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enhance student learning - Instructor materials include: complete instructor solutions manual, PowerPoint Image Bank, and Test Bank - Available with WebAssign with full integrated eBook

Designed for the one-term course in trigonometry, the Third Edition incorporates all of the many teaching and learning tools that have made Zill's texts a resounding success. A rich pedagogy and an extensive supplements package make this text a must-have resource for students and instructors alike. Zill takes care to include a full set of engaging and motivating features for students, including a wide range of word problems and specific applications, historical accounts of mathematicians, and a strong variety of relevant exercises. These extensive exercises give students the opportunity to test their comprehension, challenge their understanding, and apply their knowledge to real-world situations. Designed for economics, business, or social or behavioral science majors in a one- or two-term course, Brief Calculus for the Business, Social, and Life Sciences presents mathematics in a clear and accessible language. Engaging, real-world examples and real data applications make calculus relevant, and the easy-to-read conversational style of the text evokes the one-on-one communication of a personalized tutorial session without sacrificing depth of coverage or intellectual rigor. The revised and updated Third Edition of this popular text includes a new, four-step problem-solving method that allows students to independently find solutions to a broad spectrum of problem sets. Rich in pedagogical features, this text includes comprehensive exercise sets, chapter openers that outline key concepts for each chapter, and Flashback features that revisit and reinforce content from previous chapters. The Third Edition contains all-new exercises, updated real-world data for modeling applications, and Section Objectives that provide students with a clear understanding of learning goals for each section. The text is packaged with a full ancillary suite of instructor resources, including a test bank, lecture outlines in PowerPoint format, WebAssign, and a Complete Solutions Manual; additional student resources include a Student Solutions Manual and access to the student companion website. Brief Calculus for the Business, Social, and Life Sciences is a comprehensive, student-friendly text that will gently push students to new levels of independent problem-solving. Key features of the new Third Edition include: Optional highlighted Technology Option sections that point out how solutions can be found using a graphing calculator From Your Toolbox feature that reinforces previously introduced material Real data applications, fully revised and updated for the Third Edition, that keep problems relevant and interesting Comprehensive exercise sets, including Concept and Writing Exercises, Vocabulary Exercises, and Application Exercises Clearly defined four-step problem-solving method new to the Third Edition User-friendly, conversational approach that mimics the style of an individualized tutorial session Chapter Openers and Section Objectives that clearly outline key concepts for each chapter and section Section Projects that encourage further study, reflection, and independent research A full suite of

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2012

ancillary student and instructor resources"

Linear algebra forms the basis for much of modern mathematics—theoretical, applied, and computational. Finite-Dimensional Linear Algebra provides a solid foundation for the study of advanced mathematics and discusses applications of linear algebra to such diverse areas as combinatorics, differential equations, optimization, and approximation. The author begins with an overview of the essential themes of the book: linear equations, best approximation, and diagonalization. He then takes students through an axiomatic development of vector spaces, linear operators, eigenvalues, norms, and inner products. In addition to discussing the special properties of symmetric matrices, he covers the Jordan canonical form, an important theoretical tool, and the singular value decomposition, a powerful tool for computation. The final chapters present introductions to numerical linear algebra and analysis in vector spaces, including a brief introduction to functional analysis (infinite-dimensional linear algebra). Drawing on material from the author's own course, this textbook gives students a strong theoretical understanding of linear algebra. It offers many illustrations of how linear algebra is used throughout mathematics.

Appropriate for the third semester in the college calculus sequence, the Fourth Edition of Multivariable Calculus maintains student-friendly writing style and robust exercises and problem sets that Dennis Zill is famous for. Ideal as a follow-up companion to Zill first volume, or as a stand-alone text, this exceptional revision presents the topics typically covered in the traditional third course, including Vector-valued Functions, Differential Calculus of Functions of Several Variables, Integral Calculus of Functions of Several Variables, Vector Integral Calculus, and an Introduction to Differential Equations.

Introductory courses in Linear Algebra can be taught in a variety of ways and the order of topics offered may vary based on the needs of the students. Linear Algebra with Applications, Alternate Eighth Edition provides instructors with an additional presentation of course material. In this edition earlier chapters cover systems of linear equations, matrices, and determinants. The more abstract material on vector spaces starts later, in Chapter 4, with the introduction of the vector space \mathbb{R}^n . This leads directly into general vector spaces and linear transformations. This alternate edition is especially appropriate for students preparing to apply linear equations and matrices in their own fields. Clear, concise, and comprehensive--the Alternate Eighth Edition continues to educate and enlighten students, leading to a mastery of the mathematics and an understanding of how to apply it. New and Key Features of the Alternate Eighth Edition: - Updated and revised throughout with new section material and exercises included in every chapter. - Provides students with a flexible blend of theory, important numerical techniques and interesting relevant applications. - Includes discussions of the role of linear algebra in many areas such as the operation of the Google search engine and the global structure of the worldwide air transportation network. - A MATLAB manual that ties into the regular course material is included as an appendix. These ideas can be implemented on any matrix algebra software package. A graphing calculator manual is also included. - A Student Solutions Manual that contain solutions to selected exercises is available as a supplement, An Instructor Complete Solutions Manual containing worked solutions to all exercises is also available.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons,

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2012

places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9781449679569 .

Intended for the undergraduate student majoring in mathematics, physics or engineering, the Sixth Edition of Complex Analysis for Mathematics and Engineering continues to provide a comprehensive, student-friendly presentation of this interesting area of mathematics. The authors strike a balance between the pure and applied aspects of the subject, and present concepts in a clear writing style that is appropriate for students at the junior/senior level. Through its thorough, accessible presentation and numerous applications, the sixth edition of this classic text allows students to work through even the most difficult proofs with ease. New exercise sets help students test their understanding of the material at hand and assess their progress through the course. Additional Mathematica and Maple exercises, as well as a student study guide are also available online.

Modern and comprehensive, the new Fifth Edition of Zill's Advanced Engineering Mathematics, Fifth Edition provides an in depth overview of the many mathematical topics required for students planning a career in engineering or the sciences. A key strength of this best-selling text is Zill's emphasis on differential equations as mathematical models, discussing the constructs and pitfalls of each. The Fifth Edition is a full compendium of topics that are most often covered in the Engineering Mathematics course or courses, and is extremely flexible, to meet the unique needs of various course offerings ranging from ordinary differential equations to vector calculus. The new edition offers a reorganized project section to add clarity to course material and new content has been added throughout, including new discussions on: Autonomous Des and Direction Fields; Translation Property, Bessel Functions, LU-Factorization, Da Vinci's apparatus for determining speed and more. New and Key Features of the Fifth Edition: - Available with WebAssign with full integrated eBook - Two new chapters, Probability and Statistics, are available online - Updated example throughout - Projects, formerly found at the beginning of the text, are now included within the appropriate chapters. - New and updated content throughout including new discussions on: Autonomous Des and Direction Fields; Translation Property, Bessel Functions, LU-Factorization, Da Vinci's apparatus for determining speed and more. - The Student Companion Website, included with every new copy, includes a wealth of study aids, learning tools, projects, and essays to enhance student learning Instructor materials include: complete instructor solutions manual, PowerPoint Image Bank, and Test Bank.

Elementary Real Analysis is a core course in nearly all mathematics departments throughout the world. It enables students to develop a deep understanding of the key concepts of calculus from a mature perspective. Elements of Real Analysis is a student-friendly guide to learning all the important ideas of elementary real analysis, based on the author's many years of experience teaching the subject to typical undergraduate mathematics majors. It avoids the compact style of professional mathematics writing, in favor of a style that feels more comfortable to students encountering the subject for the first time. It presents topics in ways that are most easily understood, without sacrificing rigor or coverage. In using this book, students discover that real analysis is completely

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2012

deducible from the axioms of the real number system. They learn the powerful techniques of limits of sequences as the primary entry to the concepts of analysis, and see the ubiquitous role sequences play in virtually all later topics. They become comfortable with topological ideas, and see how these concepts help unify the subject. Students encounter many interesting examples, including "pathological" ones, that motivate the subject and help fix the concepts. They develop a unified understanding of limits, continuity, differentiability, Riemann integrability, and infinite series of numbers and functions.

To learn and understand mathematics, students must engage in the process of doing mathematics. Emphasizing active learning, *Abstract Algebra: An Inquiry-Based Approach* not only teaches abstract algebra but also provides a deeper understanding of what mathematics is, how it is done, and how mathematicians think. The book can be used in both rings-first and groups-first abstract algebra courses. Numerous activities, examples, and exercises illustrate the definitions, theorems, and concepts. Through this engaging learning process, students discover new ideas and develop the necessary communication skills and rigor to understand and apply concepts from abstract algebra. In addition to the activities and exercises, each chapter includes a short discussion of the connections among topics in ring theory and group theory. These discussions help students see the relationships between the two main types of algebraic objects studied throughout the text. Encouraging students to do mathematics and be more than passive learners, this text shows students that the way mathematics is developed is often different than how it is presented; that definitions, theorems, and proofs do not simply appear fully formed in the minds of mathematicians; that mathematical ideas are highly interconnected; and that even in a field like abstract algebra, there is a considerable amount of intuition to be found.

Ward Cheney and David Kincaid have developed *Linear Algebra: Theory and Applications, Second Edition*, a multi-faceted introductory textbook, which was motivated by their desire for a single text that meets the various requirements for differing courses within linear algebra. For theoretically-oriented students, the text guides them as they devise proofs and deal with abstractions by focusing on a comprehensive blend between theory and applications. For application-oriented science and engineering students, it contains numerous exercises that help them focus on understanding and learning not only vector spaces, matrices, and linear transformations, but uses of software tools available for use in applied linear algebra. Using a flexible design, it is an ideal textbook for instructors who wish to make their own choice regarding what material to emphasize, and to accentuate those choices with homework assignments from a large variety of exercises, both in the text and online.

Computing, Math, & Engineering

Linear Algebra: A First Course with Applications explores the fundamental ideas of linear algebra, including vector spaces, subspaces, basis, span, linear independence, linear transformation, eigenvalues, and eigenvectors, as well as a variety of applications, from inventories to graphics to Google's PageRank. Unlike other texts on the subject, this classroom-tested book gives students enough time to absorb the material by focusing on vector spaces early on and using computational sections as numerical interludes. It offers introductions to Maple™, MATLAB®, and TI-83 Plus for calculating matrix inverses, determinants, eigenvalues, and eigenvectors. Moving from

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2012

the specific to the general, the author raises questions, provides motivation, and discusses strategy before presenting answers. Discussions of motivation and strategy include content and context to help students learn.

Written for mathematics, science, and engineering majors who have completed the traditional two-term course in single variable calculus, Multivariable Calculus bridges the gap between mathematical concepts and their real-world applications outside of mathematics. The ideas of multivariable calculus are presented in a context that is informed by their non-mathematical applications. It incorporates collaborative learning strategies and the sophisticated use of technology, which asks students to become active participants in the development of their own understanding of mathematical ideas. This teaching and learning strategy urges students to communicate mathematically, both orally and in writing. With extended examples and exercises and a student-friendly accessible writing style, Multivariable Calculus is an exciting and engaging journey into mathematics relevant to students everyday lives.

This text combines the topics generally found in main-stream elementary statistics books with the essentials of the underlying theory. The book begins with an axiomatic treatment of probability followed by chapters on discrete and continuous random variables and their associated distributions. It then introduces basic statistical concepts including summarizing data and interval parameter estimation, stressing the connection between probability and statistics. Final chapters introduce hypothesis testing, regression, and non-parametric techniques. All chapters provide a balance between conceptual understanding and theoretical understanding of the topics at hand.

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

Designed for the undergraduate student with a calculus background but no prior experience with complex analysis, this text discusses the theory of the most relevant mathematical topics in a student-friendly manner. With a clear and straightforward writing style, concepts are introduced through numerous examples, illustrations, and applications. Each section of the text contains an extensive exercise set containing a range of computational, conceptual, and geometric problems. In the text and exercises, students are guided and supported through numerous proofs providing them with a higher level of mathematical insight and maturity. Each chapter contains a separate section devoted exclusively to the applications of complex analysis to science and engineering, providing students with the opportunity to develop a practical and clear understanding of complex analysis. The Mathematica syntax from the second edition has been updated to coincide with version 8 of the software. --

Appropriate for the traditional 3-term college calculus course, Calculus: Early Transcendentals, Fourth Edition provides the student-friendly presentation and robust examples and problem sets for which Dennis Zill is known. This outstanding revision incorporates all of the exceptional learning tools that have made Zill's texts a resounding success. He carefully blends the theory and application of important concepts while offering modern applications and problem-solving skills.

Never HIGHLIGHT a Book Again Includes all testable terms, concepts, persons, places, and events. Cram101 Just the FACTS101 studyguides gives all of the outlines, highlights, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanies: 9780872893795. This item is

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2012

printed on demand.

Holt's Linear Algebra with Applications, Second Edition, blends computational and conceptual topics throughout to prepare students for the rigors of conceptual thinking in an abstract setting. The early treatment of conceptual topics in the context of Euclidean space gives students more time, and a familiar setting, in which to absorb them. This organization also makes it possible to treat eigenvalues and eigenvectors earlier than in most texts. Abstract vector spaces are introduced later, once students have developed a solid conceptual foundation. Concepts and topics are frequently accompanied by applications to provide context and motivation. Because many students learn by example, Linear Algebra with Applications provides a large number of representative examples, over and above those used to introduce topics. The text also has over 2500 exercises, covering computational and conceptual topics over a range of difficulty levels.

Essentials of Discrete Mathematics, Second Edition is the ideal text for a one-term discrete mathematics course to serve computer science majors as well as students from a wide range of other disciplines. It introduces students to the mathematical way of thinking, and also to many important modern applications. The material is organized around five types of thinking: logical, relational, recursive, quantitative, and analytical. This presentation results in a coherent outline that steadily builds upon mathematical sophistication. Graphs are introduced early and referred to throughout the text, providing a richer context for examples and applications. Students will encounter algorithms near the end of the text, after they have acquired the skills and experience needed to analyze them. The final chapter contains in-depth case studies from a variety of fields, including biology, sociology, linguistics, economics, and music. Clear and concise, Essentials of Discrete Mathematics presents a unified and complete picture of discrete mathematics that instructors can cover in a single semester.

Every New Copy of Precalculus: A Functional Approach to Graphing and Problem Solving Includes Access to the Student Companion Website! Precalculus: A Functional Approach to Graphing and Problem Solving prepares students for the concepts and applications they will encounter in future calculus courses. In far too many texts, process is stressed over insight and understanding, and students move on to calculus ill equipped to think conceptually about its essential ideas. This text provides sound development of the important mathematical underpinnings of calculus, stimulating problems and exercises, and a well-developed, engaging pedagogy. Students will leave with a clear understanding of what lies ahead in their future calculus courses.

Instructors will find that Smith's straightforward, student-friendly presentation provides exactly what they have been looking for in a text!

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