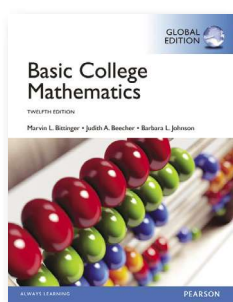


Mathematics & Statistics

Precalculus / Precollege Mathematics



Basic College Mathematics, 12e

Marvin L. Bittinger
& Judith A. Penna

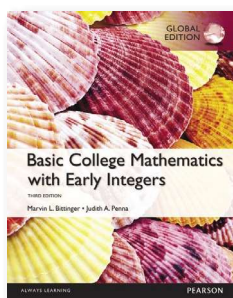
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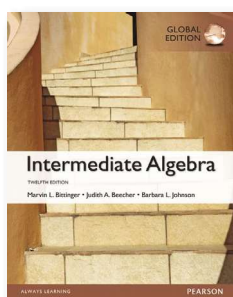
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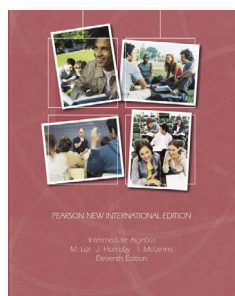
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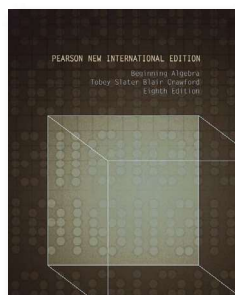
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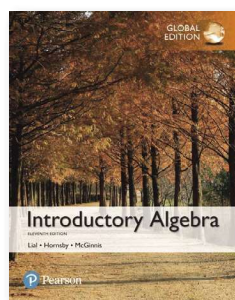
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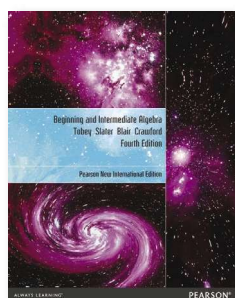
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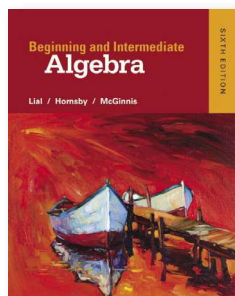
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Beginning and Intermediate Algebra, 6e

Margaret L. Lial, John Hornsby
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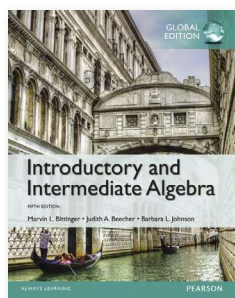
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Marvin L. Bittinger
& Judith A. Beecher

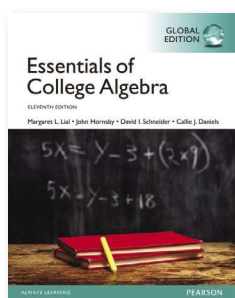
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Essentials of College Algebra, 11e

Margaret Lial, John Hornsby,
David Schneider & Callie Daniels

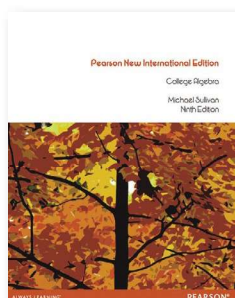
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Course: College Algebra

Essentials of College Algebra develops both the conceptual understanding and the analytical skills necessary for success in mathematics. With the Eleventh Edition, the authors have adapted and updated the program for the evolving student. New co-author Callie Daniels brings her experience with traditional, hybrid and online courses, to create a suite of resources to support today's learners.



College Algebra, 9e

Michael Sullivan

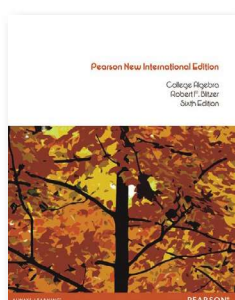
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Mike Sullivan's time-tested approach focuses students on the fundamental skills they need for the course: preparing for class, practicing with homework and reviewing the concepts. In the Ninth Edition, *College Algebra* has evolved to meet today's course needs, building on these hallmarks by integrating projects and other interactive learning tools for use in the classroom or online.



College Algebra, 6e

Robert F. Blitzer

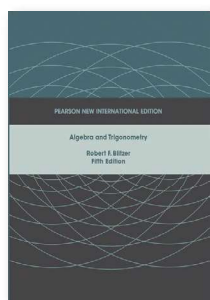
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Algebra and Trigonometry, 5e

Robert F. Blitzer

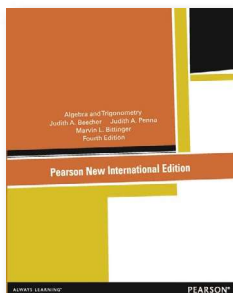
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Algebra and Trigonometry, 4e

Judith A. Beecher, Judith A. Penna & Marvin L. Bittinger

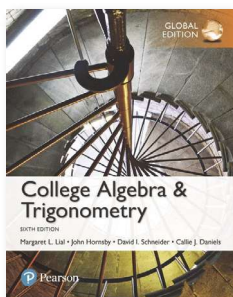
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eBook version available

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Course: Algebra and Trigonometry

Beecher, Penna and Bittinger's *Algebra and Trigonometry* is known for enabling students to see the math through its focus on visualization and early introduction to functions. With the Fourth Edition, the authors continue to innovate by incorporating more ongoing review to help students develop their understanding and study effectively.



College Algebra and Trigonometry, 6e

Margaret L. Lial, John Hornsby, David I. Schneider & Callie Daniels

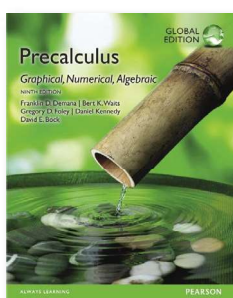
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Course: Algebra and Trigonometry

The College Algebra series, by Lial, Hornsby, Schneider and Daniels, combines the experience of master teachers to help students develop both the conceptual understanding and the analytical skills necessary for success in mathematics. With this latest edition, the authors respond to the challenges of new student expectations and new classroom models.



Precalculus: Graphical, Numerical, Algebraic, 9e

Franklin Demana, Bert K. Waits, Gregory D. Foley, Daniel Kennedy & Dave Bock

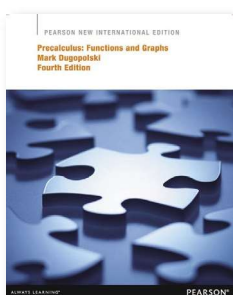
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Course: Precalculus Mathematics

Precalculus: Graphical, Numerical, Algebraic – by the nationally recognized author team of Demana, Waits, Foley, Kennedy and Bock – is the leading choice for graphing-intensive courses. Now in its Ninth Edition, this bestseller offers extremely accessible writing and exercises, a balanced approach to problem solving, the most appropriate use of technology and an easier and more consistent transition from Precalculus to Calculus.



Precalculus: Functions and Graphs, 4e

Mark Dugopolski

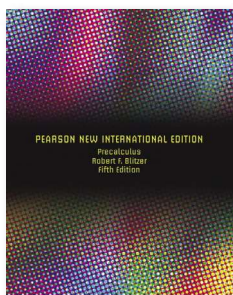
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Course: Precalculus Mathematics

Dugopolski's *Precalculus: Functions and Graphs* gives students the essential strategies they need to make the transition to calculus. The author's emphasis on problem solving and critical thinking is enhanced by the addition of 900 exercises including new vocabulary and cumulative review problems. Students will find carefully placed learning aids and review tools to help them learn the math without getting distracted. Along the way, students see how the algebra connects to their future calculus courses, with tools like Foreshadowing Calculus and Concepts of Calculus.



Precalculus, 5e

Robert F. Blitzer

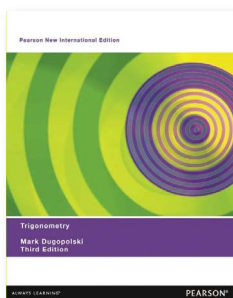
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Trigonometry, 3e

Mark Dugopolski

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Course: Plane Trigonometry

Dugopolski's *Trigonometry* gives students the essential strategies to help them develop the comprehension and confidence they need to be successful in this course. Students will find enough carefully placed learning aids and review tools to help them do the math without getting distracted from their objectives. Regardless of their goals beyond the course, all students will benefit from Dugopolski's emphasis on problem solving and critical thinking, which is enhanced by the addition of nearly 1,000 exercises in this edition.



Trigonometry, 10e

Margaret Lial, John Hornsby,
David I. Schneider & Callie Daniels

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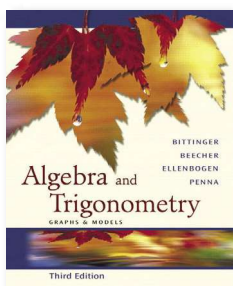
520pp • Paperback

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Course: Plane Trigonometry

Trigonometry by Lial, Hornsby, Schneider and Daniels, engages and supports students in the learning process by developing both the conceptual understanding and the analytical skills necessary for success in mathematics. With the Tenth Edition, the authors recognize that students are learning in new ways and that the classroom is evolving. The Lial team is now offering a new suite of resources to support today's instructors and students.



Algebra and Trigonometry: Graphs and Models, 3e

Marvin L. Bittinger,
Judith A. Beecher,
David J. Ellenbogen
& Judith A. Penna

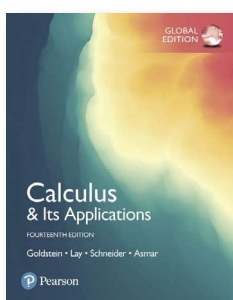
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1056pp • Hardback

Course: Algebra / Trig with Graphing Calculators

With a visual, graphical approach that emphasizes connections among concepts, this text helps students make the most of their study time. The authors show how different mathematical ideas are tied together through their zeros, solutions and x-intercepts theme; side-by-side algebraic and graphical solutions; calculator screens; and examples and exercises. By continually reinforcing the connections among various mathematical concepts as well as different solution methods, the authors lead students to the ultimate goal of mastery and success in class.

Applied Mathematics



Calculus & Its Applications, 14e

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David I. Schneider

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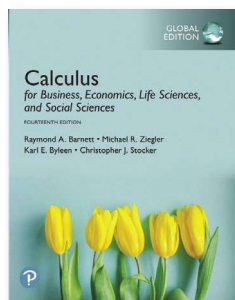
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Course: Applied Calculus

Calculus & Its Applications builds intuition with key concepts of calculus before the analytical material. For example, the authors explain the derivative geometrically before they present limits and they introduce the definite integral intuitively via the notion of net change before they discuss Riemann sums. The strategic organization of topics makes it easy to adjust the level of theoretical material covered. The significant applications introduced early in the course serve to motivate students and make the mathematics more accessible. Another unique aspect of the text is its intuitive use of differential equations to model a variety of phenomena in Chapter 5, which addresses applications of exponential and logarithmic functions.



Calculus for Business, Economics, Life Sciences and Social Sciences, 14e

Raymond A. Barnett,
Michael R. Ziegler & Karl E. Byleen

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792pp • Paperback

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Course: Applied Calculus

Calculus for Business, Economics, Life Sciences and Social Sciences, 14th Edition offers more built-in guidance than any other text in its field – with special emphasis on applications and prerequisite skills – and a host of student-friendly features to help students catch up or learn on their own. The text's emphasis on helping students “get the idea” is enhanced in the new edition by a design refresh and updated data and applications.



Basic Technical Mathematics with Calculus, 10e

Allyn J. Washington

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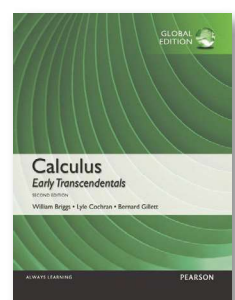
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Course: Technical Mathematics

This tried-and-true text from Allyn Washington preserves the author's highly regarded approach to technical math, while enhancing the integration of technology. Appropriate for a one- to two-semester course, *Basic Technicals Mathematics with Calculus* shows how algebra and trigonometry are used on the job. It addresses a vast number of technologies including aeronautics, construction, energy, environmental, electronics, computer design, automotive, fire science and more!

Mathematics for Scientists and Engineers



Calculus: Early Transcendentals, 2e

William L. Briggs, Lyle Cochran
& Bernard Gillett

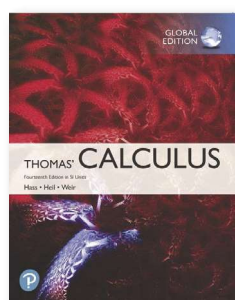
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Course: Calculus

This much anticipated Second Edition of the most successful new calculus text published in the last two decades retains the best of the first edition while introducing important advances and refinements. Authors Briggs, Cochran and Gillett build from a foundation of meticulously crafted exercise sets, then draw students into the narrative through writing that reflects the voice of the instructor, examples that are stepped out and thoughtfully annotated and figures that are designed to teach rather than simply supplement the narrative.



Thomas' Calculus in SI Units, 14e

George B. Thomas,
Maurice D. Weir & Joel R. Hass

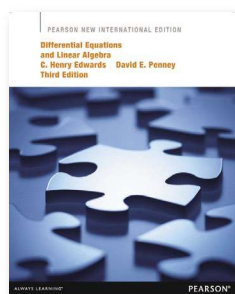
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Course: Calculus

Thomas' Calculus helps students reach the level of mathematical proficiency and maturity you require, but with support for students who need it through its balance of clear and intuitive explanations, current applications and generalized concepts. In this edition, new co-author Christopher Heil (Georgia Institute of Technology) partners with author Joel Hass to preserve what is best about Thomas' time-tested text while reconsidering every word and every piece of art with today's students in mind. The result is a text that goes beyond memorizing formulas and routine procedures to help students generalize key concepts and develop deeper understanding.



Differential Equations and Linear Algebra, 3e

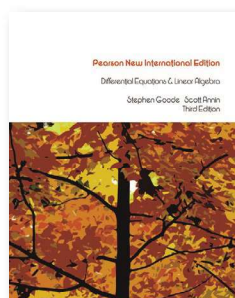
C. Henry Edwards
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Course: Differential Equations and Linear Algebra

Acclaimed authors Edwards and Penney combine core topics in elementary differential equations with those concepts and methods of elementary linear algebra needed for a contemporary combined introduction to differential equations and linear algebra. Known for its real-world applications and its blend of algebraic and geometric approaches, this text discusses mathematical modeling of real-world phenomena, with a fresh new computational and qualitative flavor evident throughout in figures, examples, problems and applications.



Differential Equations and Linear Algebra, 3e

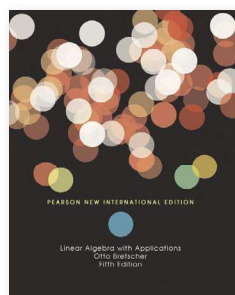
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Course: Differential Equations and Linear Algebra

This complete introduction to both differential equations and linear algebra presents a carefully balanced and sound integration of the two topics. It promotes in-depth understanding rather than rote memorization, enabling students to fully comprehend abstract concepts and leave the course with a solid foundation in linear algebra. Flexible in format, it explains concepts clearly and logically with an abundance of examples and illustrations, without sacrificing level or rigor.



Linear Algebra with Applications, 5e

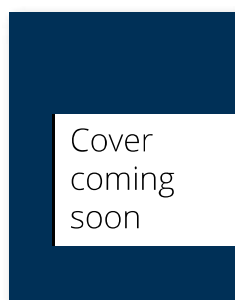
Otto Bretscher

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464pp • Paperback

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Course: Introductory Linear Algebra

Offering the most geometric presentation available, *Linear Algebra with Applications* emphasizes linear transformations as a unifying theme. This elegant textbook combines a user-friendly presentation with straightforward, lucid language to clarify and organize the techniques and applications of linear algebra. Exercises and examples make up the heart of the text, with abstract exposition kept to a minimum.



Linear Algebra and Its Applications, 5e

David C. Lay, Steven R. Lay
& Judi J. McDonald

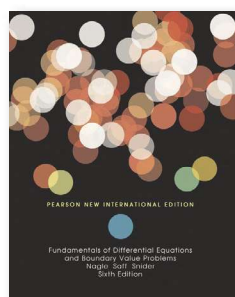
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Paperback

eBook version available

Available with MyLab Math

Course: Introductory Linear Algebra

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 \mathbb{R}^n 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.



Fundamentals of Differential Equations and Boundary Value Problems, 6e

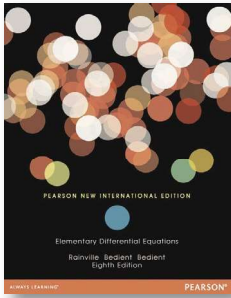
R. Kent Nagle, Edward Saff
& David Snider

9781292023564 • ©2013
872pp • Paperback

eBook version available

Course: Differential Equations

Fundamentals of Differential Equations presents the basic theory of differential equations and offers a variety of modern applications in science and engineering. Available in two versions, these flexible texts offer the instructor many choices in syllabus design, course emphasis (theory, methodology, applications and numerical methods) and in using commercially available computer software.



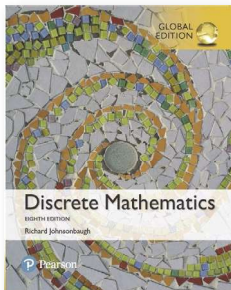
Elementary Differential Equations, 8e

Earl D. Rainville, Phillip E. Bedient
& Richard E. Bedient

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544pp • Paperback

Course: Differential Equations

This clear, concise fairly easy classic text is particularly well-suited to courses that emphasize finding solutions to differential equations where applications play an important role. Many illustrative examples in each chapter help the student to understand the subject. Computer applications new to this edition.



Discrete Mathematics, 8e

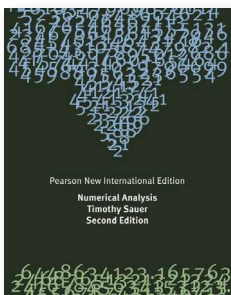
Richard Johnsonbaugh

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768pp • Paperback

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Course: Discrete Mathematics

An accessible introduction to the topics of discrete math, this best-selling text also works to expand students' mathematical maturity. With nearly 4,500 exercises, *Discrete Mathematics* provides ample opportunities for students to practice, apply and demonstrate conceptual understanding. Exercise sets feature a large number of applications, especially applications to computer science. The almost 650 worked examples provide ready reference for students as they work. A strong emphasis on the interplay among the various topics serves to reinforce understanding. The text models various problem-solving techniques in detail, then provides opportunity to practice these techniques. The text also builds mathematical maturity by emphasizing how to read and write proofs.



Numerical Analysis, 2e

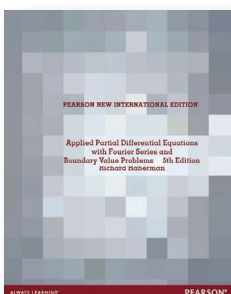
Timothy Sauer

9781292023588 • ©2013
612pp • Paperback

eBook version available

Course: Numerical Analysis

A modern and readable text for the undergraduate audience. This book covers not only the standard topics but also some more advanced numerical methods being used by computational scientists and engineers – topics such as compression, forward and backward error analysis and iterative methods of solving equations – all while maintaining a level of discussion appropriate for undergraduates. Each chapter contains a Reality Check, which is an extended exploration of relevant application areas that can launch individual or team projects. MATLAB® is used throughout to demonstrate and implement numerical methods.



Applied Partial Differential Equations with Fourier Series and Boundary Value Problems, 5e

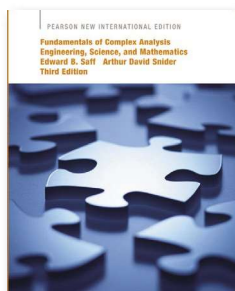
Richard Haberman

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648pp • Paperback

eBook version available

Course: Partial Differential Equations

This text emphasizes the physical interpretation of mathematical solutions and introduces applied mathematics while presenting differential equations. Coverage includes Fourier series, orthogonal functions, boundary value problems, Green's functions and transform methods.



Fundamentals of Complex Analysis with Applications to Engineering, Science and Mathematics, 3e

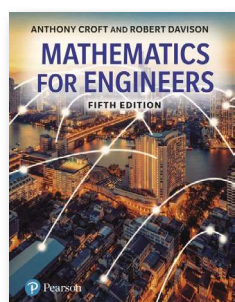
Edward B. Saff & Arthur David Snider

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520pp • Paperback

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Course: Complex Analysis

This is the best seller in this market. It provides a comprehensive introduction to complex variable theory and its applications to current engineering problems. It is designed to make the fundamentals of the subject more easily accessible to students who have little inclination to wade through the rigors of the axiomatic approach. Modelled after standard calculus books – both in level of exposition and layout – it incorporates physical applications throughout the presentation, so that the mathematical methodology appears less sterile to engineering students.



Mathematics for Engineers, 5e

Tony Croft & Robert Davison

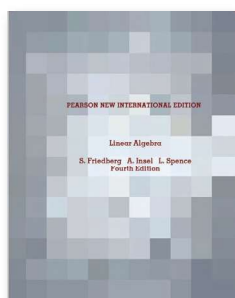
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Course: Engineering Mathematics

Understanding key mathematical concepts and applying them successfully to solve problems are vital skills that all engineering students must acquire. *Mathematics for Engineers* teaches, develops and nurtures those skills. Practical, informal and accessible, it begins with the foundations and gradually builds upon this knowledge as it introduces more complex concepts to cover all requirements for a first year engineering maths course, together with introductory material for even more advanced topics.



Linear Algebra, 4e

Stephen H. Friedberg,
Arnold J. Insel &
Lawrence E. Spence

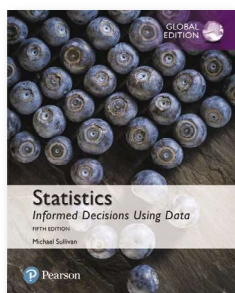
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Course: Advanced Linear Algebra

This top-selling, theorem-proof text presents a careful treatment of the principle topics of linear algebra and illustrates the power of the subject through a variety of applications. It emphasizes the symbiotic relationship between linear transformations and matrices, but states theorems in the more general infinite-dimensional case where appropriate.

Statistics



Statistics: Informed Decisions Using Data, 5e

Michael Sullivan

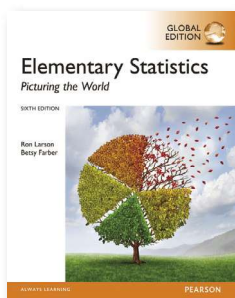
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Course: Introductory Statistics – Algebra Based

Statistics: Informed Decisions Using Data gives students the tools to see a bigger picture and make informed choices. As a current introductory statistics instructor, Mike Sullivan III presents a text that is filled with ideas and strategies that work in today's classroom. His practical emphasis resonates with students and helps them see that statistics is connected, not only to individual concepts, but also with the world at large.



Elementary Statistics: Picturing the World, 7e

Ron Larson & Elizabeth Farber

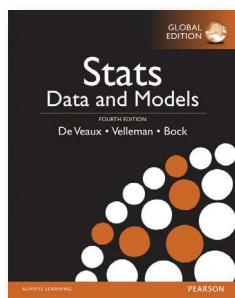
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Course: Introductory Statistics – Algebra Based

Elementary Statistics: Picturing the World makes statistics approachable with stepped-out instruction, extensive real-life examples and exercises and a design that fits content to each page to make the material more digestible. The text's combination of theory, pedagogy and design helps students understand concepts and use statistics to describe and think about the world. The Seventh Edition incorporates a thorough update of key features, examples and exercises.



Stats: Data and Models, 4e

Richard D. De Veaux,
Paul Velleman & David E. Bock

9781292101637 • ©2015
996pp • Paperback

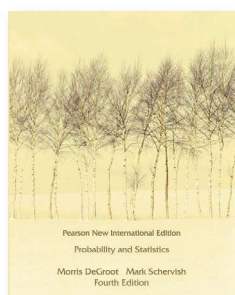
eBook version available

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Course: Introductory Statistics – Algebra Based

Richard De Veaux, Paul Velleman and David Bock wrote *Stats: Data and Models* with the goal that students and instructors have as much fun reading it as they did writing it. Maintaining a conversational, humorous and informal writing style, this new edition engages students from the first page. The authors focus on statistical thinking throughout the text and rely on technology for calculations. As a result, students can focus on developing their conceptual understanding.

New edition coming 2021



Probability and Statistics, 4e

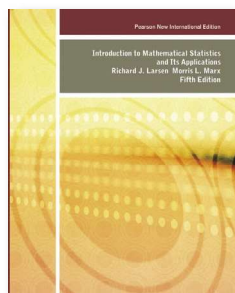
Morris H. DeGroot
& Mark J. Schervish

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840pp • Paperback

eBook version available

Course: Introductory Statistics – Calculus Based

The revision of this well-respected text presents a balanced approach of the classical and Bayesian methods and now includes a chapter on simulation (including Markov chain Monte Carlo and the Bootstrap), coverage of residual analysis in linear models and many examples using real data.



Introduction to Mathematical Statistics and Its Applications, 5e

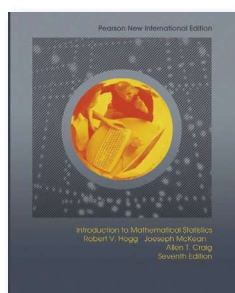
Richard J. Larsen & Morris L. Marx

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Course: Introductory Statistics – Calculus Based

Noted for its integration of real-world data and case studies, this text offers sound coverage of the theoretical aspects of mathematical statistics. The authors demonstrate how and when to use statistical methods, while reinforcing the calculus that students have mastered in previous courses. Throughout the Fifth Edition, the authors have added and updated examples and case studies, while also refining existing features that show a clear path from theory to practice.



Introduction to Mathematical Statistics, 7e

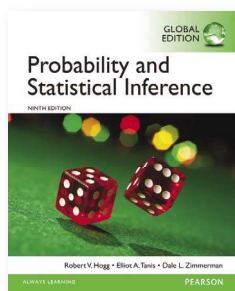
Robert V. Hogg, Joseph McKean
& Allen T. Craig

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656pp • Paperback

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Course: Mathematical Statistics

Introduction to Mathematical Statistics provides students with a comprehensive introduction to mathematical statistics. Continuing its proven approach, the Seventh Edition has been updated with new examples, exercises and content for an even stronger presentation of the material.



Probability and Statistical Inference, 9e

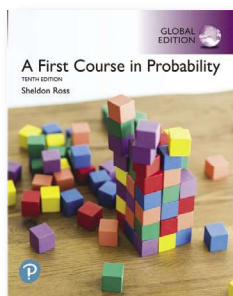
Robert V. Hogg & Elliot A. Tanis

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Course: Mathematical Statistics

Written by three veteran statisticians, this applied introduction to probability and statistics emphasizes the existence of variation in almost every process and how the study of probability and statistics helps us understand this variation. Designed for students with a background in calculus, this book continues to reinforce basic mathematical concepts with numerous real-world examples and applications to illustrate the relevance of key concepts.



A First Course in Probability, 10e

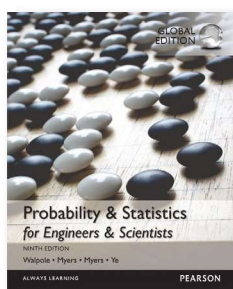
Sheldon Ross

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Course: Probability

A First Course in Probability offers an elementary introduction to the theory of probability for students in mathematics, statistics, engineering and the sciences. Through clear and intuitive explanations, it attempts to present not only the mathematics of probability theory, but also the many diverse possible applications of this subject through numerous examples. The 10th Edition includes many new and updated problems, exercises and text material chosen both for inherent interest and for use in building student intuition about probability.



Probability & Statistics for Engineers & Scientists, 9e

Keying E. Ye, Ronald E. Walpole,
Raymond H. Myers &
Sharon L. Myers

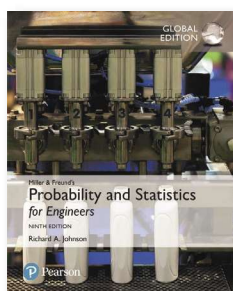
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816pp • Paperback

eBook version available

Available with MyLab Statistics

Course: Probability & Statistics – Engineers & Scientists

This classic text provides a rigorous introduction to basic probability theory and statistical inference, with a unique balance between theory and methodology. Interesting, relevant applications use real data from actual studies, showing how the concepts and methods can be used to solve problems in the field. This revision focuses on improved clarity and deeper understanding.



Miller & Freund's Probability and Statistics for Engineers, 9e

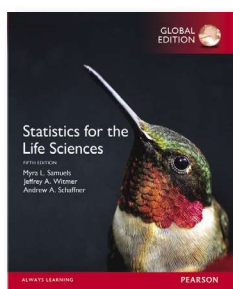
Richard A. Johnson, Irwin Miller
& John Freund

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552pp • Paperback

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Course: Probability & Statistics – Engineers & Scientists

This text is rich in exercises and examples and explores both elementary probability and basic statistics, with an emphasis on engineering and science applications. Much of the data has been collected from the author's own consulting experience and from discussions with scientists and engineers about the use of statistics in their fields. In later chapters, the text emphasizes designed experiments, especially two-level factorial design.



Statistics for the Life Sciences, 5e

Myra L. Samuels, Jeffrey A. Witmer
& Andrew Schaffner

9781292101811 • ©2015
656pp • Paperback

eBook version available

Course: Biostatistics

This text uses authentic examples and exercises from a wide variety of life science domains to give statistical concepts personal relevance, enabling students to connect concepts with situations they will encounter outside the classroom. The emphasis on understanding ideas rather than memorizing formulas makes the text ideal for students studying a variety of scientific fields: animal science, agronomy, biology, forestry, health, medicine, nutrition, pharmacy, physical education, zoology and more.