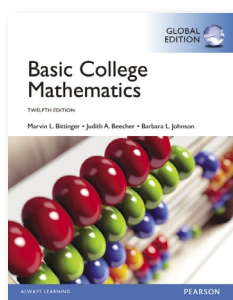# Mathematics & Statistics

Precalculus / Precollege Mathematics

Basic College Mathematics, 12e
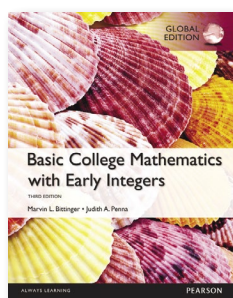
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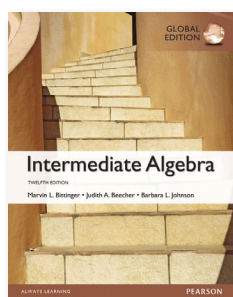
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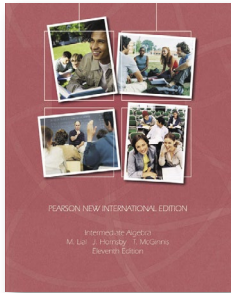9781292057705 • ©2014
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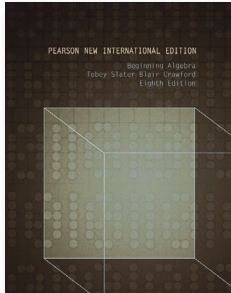9781292022734 • ©2013
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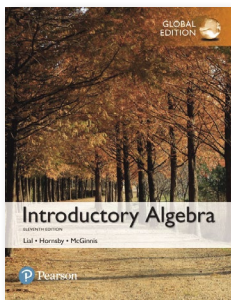702pp • Paperback

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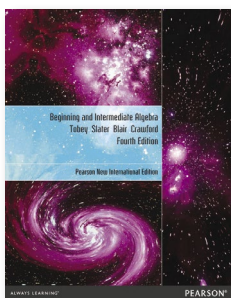9781292246123 • ©2013
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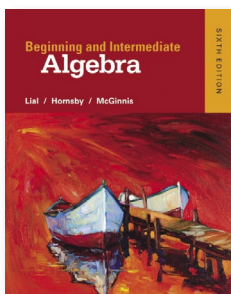9781292039428 • ©2013
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Title available on demand

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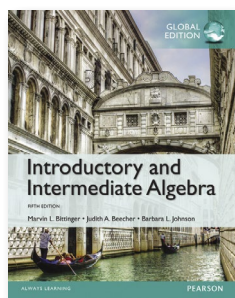Margaret L. Lial, John Hornsby
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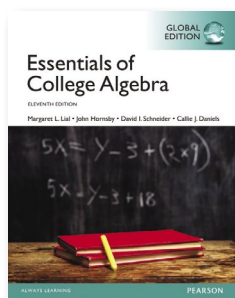Marvin L. Bittinger
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Essentials of College Algebra, 11e

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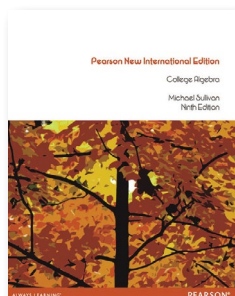David Schneider & Callie Daniels

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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
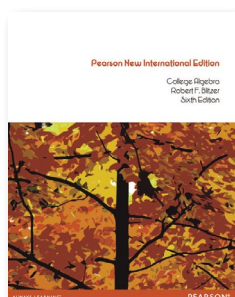
Michael Sullivan

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Course: College Algebra

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.
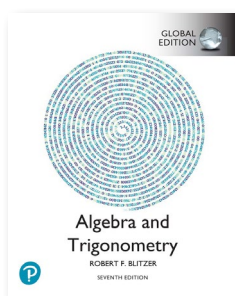
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Bob Blitzer has inspired thousands of students with his engaging approach to mathematics, making this beloved series the #1 in the market. Blitzer draws on his unique background in mathematics and behavioral science to present the full scope of mathematics with vivid applications in real-life situations. Students stay engaged because Blitzer often uses pop-culture and up-to-date references to connect math to students' lives, showing that their world is profoundly mathematical.

Algebra and Trigonometry, 7e

Robert F. Blitzer

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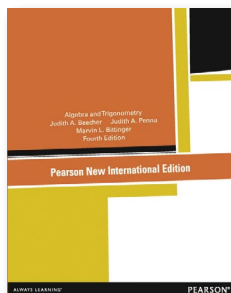1320pp • Paperback

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Course: Algebra and Trigonometry

Algebra and Trigonometry continues to support and inspire students with its engaging approach, The author's unique background in mathematics and behavioral science informs a wide range of applications, drawn from pop culture and up-to-date references, that appeal to students of all majors and connect math to students' lives.

Algebra and Trigonometry, 4e

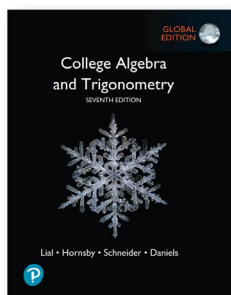Judith A. Beecher, Judith A. Penna & Marvin L. Bittinger

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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, 7e

Margaret L. Lial, John Hornsby, David I. Schneider & Callie Daniels
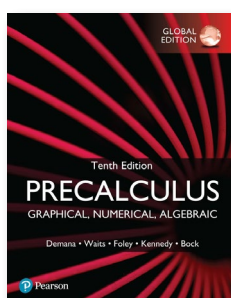
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College Algebra combines the experience of master teachers to help students develop the balance of conceptual understanding and analytical skills needed to succeed in mathematics. For this revision, integrated review is now available in MyLab™ Math for every title in the series, to accommodate varying levels of student preparation. The Review chapter has been expanded to cover the basic algebra concepts that students often find most challenging.

Precalculus: Graphical, Numerical, Algebraic, 10e

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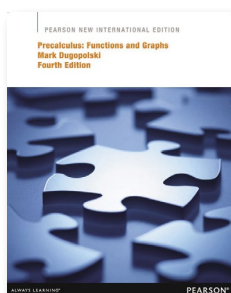
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Course: Precalculus Mathematics

A principal feature of *Precalculus: Graphical, Numerical, Algebraic* is the balance among the algebraic, numerical, graphical and verbal methods of representing problems: the rule of four. This approach reinforces the idea that to understand a problem fully, students need to understand it algebraically as well as graphically and numerically. This edition introduces graphing technology as an essential tool for mathematical discovery and effective problem solving and a focus on Statistics – to help students see that statistical analysis is an investigative process.

Precalculus: Functions and Graphs, 4e
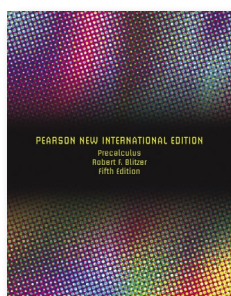
Mark Dugopolski

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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.

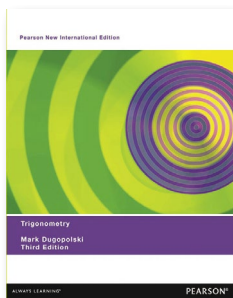## Precalculus, 5e

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Course: Precalculus Mathematics

Bob Blitzer has inspired thousands of students with his engaging approach to mathematics, making this beloved series the #1 in the market. Blitzer draws on his unique background in mathematics and behavioral science to present the full scope of mathematics with vivid applications in real-life situations. Students stay engaged because Blitzer often uses pop-culture and up-to-date references to connect math to students' lives, showing that their world is profoundly mathematical.

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
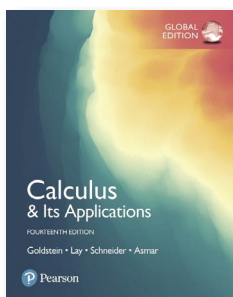
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520pp • Paperback

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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.

Applied Mathematics

Calculus & Its Applications, 14e

Larry J. Goldstein, David Lay,
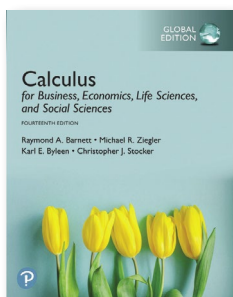Nakhle I Asmar &
David I. Schneider

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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

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Michael R. Ziegler & Karl E. Byleen
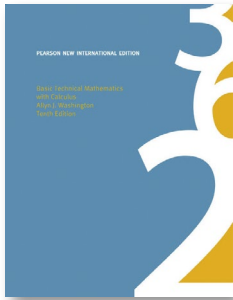
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Course: Applied Calculus

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

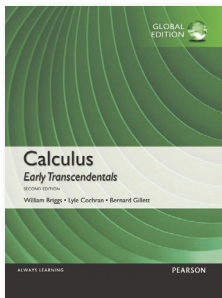9781292022123 • ©2014
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Course: Technical Mathematics

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
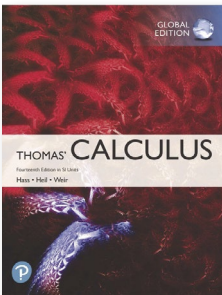
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Course: Calculus

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
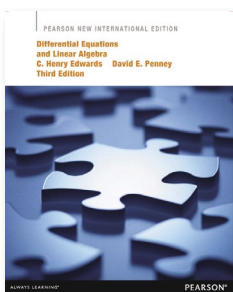
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1200pp • Paperback

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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 & David E. Penney
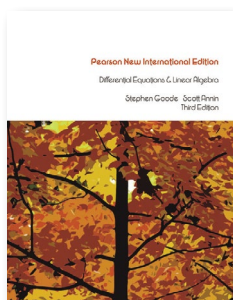
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Course: Differential Equations and Linear Algebra

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.
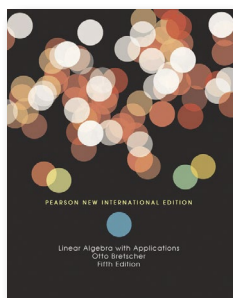
Differential Equations and Linear Algebra, 3e

Stephen W. Goode
& Scott A. Annin

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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.
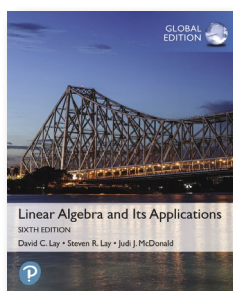
Linear Algebra with Applications, 5e

Otto Bretscher

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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, 6e

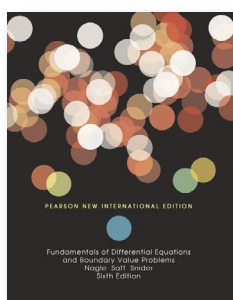David C. Lay, Steven R. Lay
& Judi J. McDonald

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672pp • Paperback

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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 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.

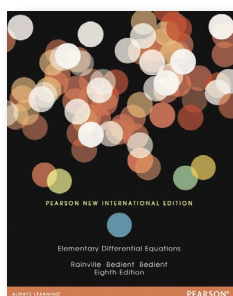## Fundamentals of Differential Equations and Boundary Value Problems, 6e

R. Kent Nagle, Edward Saff
& David Snider

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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.
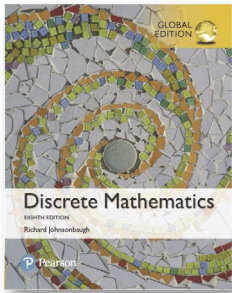
Elementary Differential Equations, 8e

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.
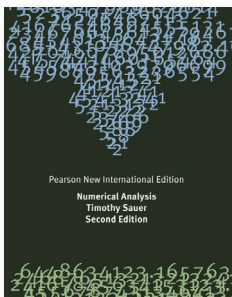
Discrete Mathematics, 8e

Richard Johnsonbaugh

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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.
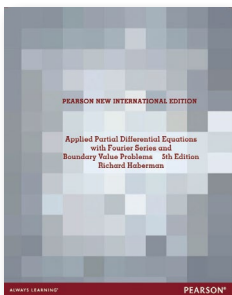
Numerical Analysis, 2e

Timothy Sauer

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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
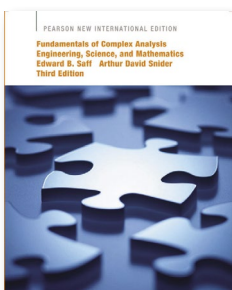
Richard Haberman

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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 &
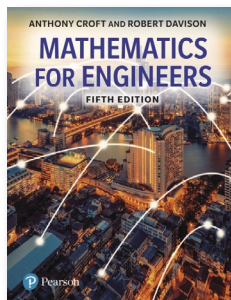Arthur David Snider

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520pp • Paperback

eBook version available

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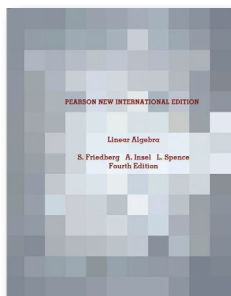
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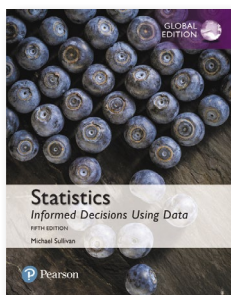
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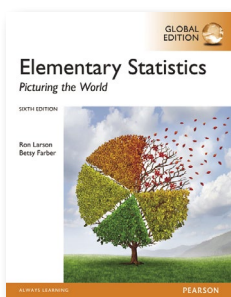
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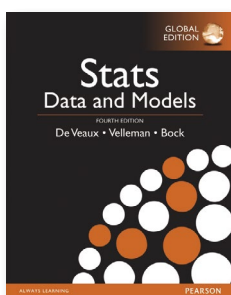
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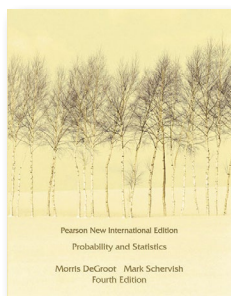
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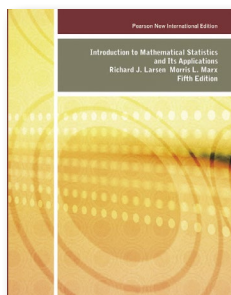
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The revision of this well-respected text presents a balanced approach of the classical and Bayesian methods and now includes a chapter on simulation (including Markov chain Monte Carlo and the Bootstrap), coverage of residual analysis in linear models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

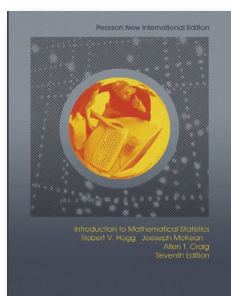## Introduction to Mathematical Statistics and Its Applications, 5e

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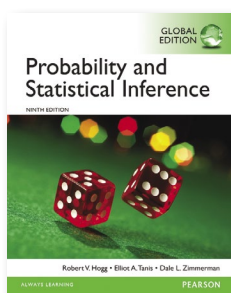## Introduction to Mathematical Statistics, 7e

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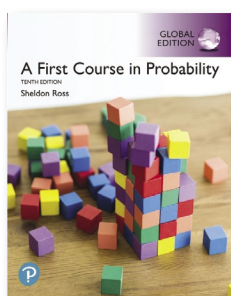## Probability and Statistical Inference, 9e

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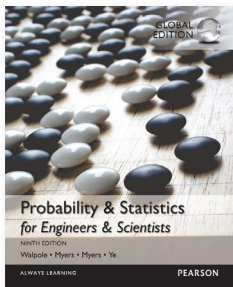## A First Course in Probability, 10e

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MATHEMATICS & STATISTICS

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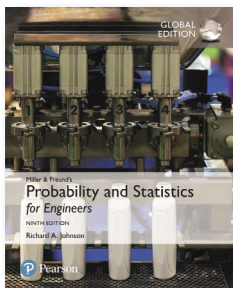Keying E. Ye, Ronald E. Walpole, Raymond H. Myers & Sharon L. Myers

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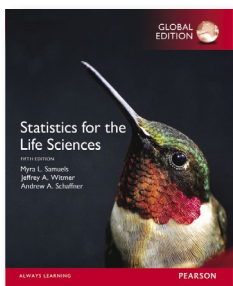
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