



MATHEMATICS & STATISTICS 2020

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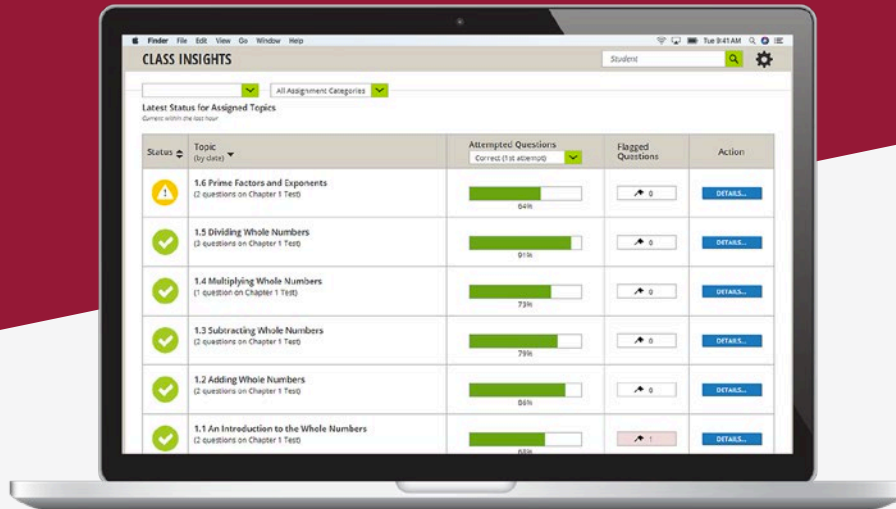
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COURSEWARE SOLUTIONS



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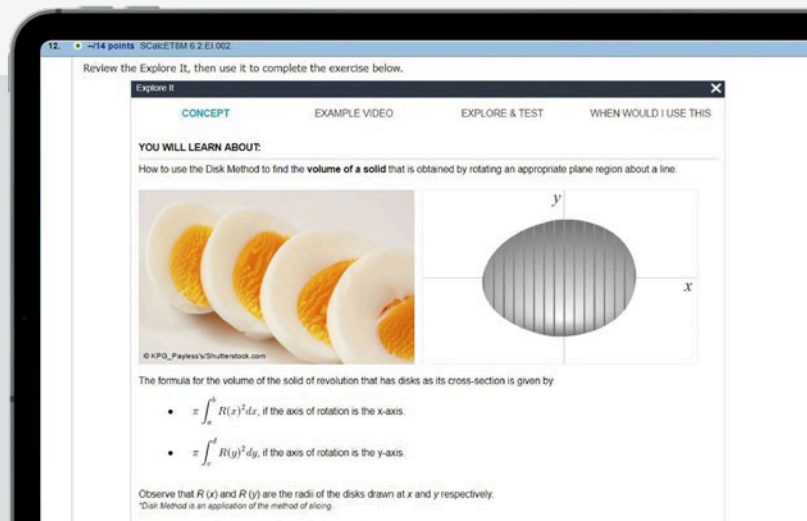
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Explore It Modules put Calculus into context, allowing students to investigate complex topics through interactive simulations, video content and real-life examples. Written in HTML5 they are accessible on any device.



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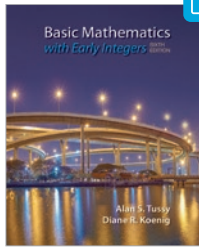
DEVELOPMENTAL MATHEMATICS

Available with WEBASSIGN

Basic Mathematics for College Students with Early Integers

6th Edition

Alan S. Tussy, Citrus College
Diane Koenig, Rock Valley College
© 2019 | 944pp | 9781337618403



Offering a uniquely modern, balanced approach, *Basic Mathematics For College Students With Early Integers*, 6th Edition, integrates the best of traditional drill and practice with the best elements of the reform movement. For many students, mathematics is like a foreign language. Many students need instructional support translating mathematical words, meanings, and how they apply to problem solving. Emphasizing the “language of mathematics,” the text’s fully integrated learning process expands student reasoning abilities and teaches them how to read, write, and think mathematically.

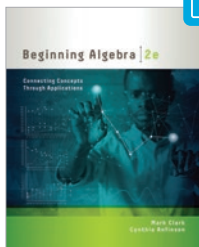
Available with WEBASSIGN

Beginning Algebra

Connecting Concepts through Applications

2nd Edition

Mark Clark, Palomar College
Cynthia Anfinson, Palomar College
© 2019 | 9781337616065



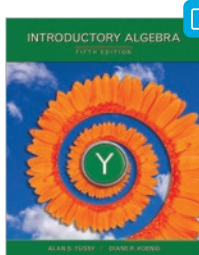
In *Beginning Algebra, 2nd Edition*, concepts become real and vivid as authors Clark and Anfinson draw from real data to show students why and how to apply maths. Through conceptual explorations, skill building, and applications, this approach helps students master concepts and develop problem solving and communication skills. The authors integrate algebraic techniques, graphing, the use of data in tables, and writing sentences to communicate solutions to application problems.

Available with WEBASSIGN

Introductory Algebra

5th Edition

Alan S. Tussy, Citrus College
Diane Koenig, Rock Valley College
© 2015 | 864pp | 9781285429571



Combining the best of traditional and reform approaches, *Introductory Algebra, 5th Edition*, focuses on adequate skill development while emphasizing applications and interpretation of visual data, conceptual development, and problem solving. The text utilizes creative applications, a unique learning system, and an emphasis on the language of algebra.

ALSO AVAILABLE

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Math Study Skills Workbook

5th Edition

Paul D. Nolting
© 2016 | 144pp | 9781305120822

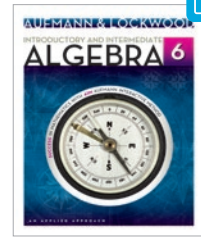
Available with WEBASSIGN

Introductory and Intermediate Algebra

An Applied Approach

6th Edition

Richard N. Aufmann, Palomar College
Joanne S. Lockwood, Nashua Community College
© 2014 | 928pp | 9781133365419



Introductory and Intermediate Algebra, 6th Edition focuses on the Aufmann Interactive Method (AIM). Students are encouraged to be active participants in the classroom and in their own studies as they work through the How To examples and the paired Examples and You Try It problems. New features like Focus on Success, Apply the Concept, and Concept Check add an increased emphasis on study skills and conceptual understanding to strengthen the foundation of student success. The Sixth Edition also features a new design, enhancing the Aufmann Interactive Method and making the pages easier for both students and instructors to follow.

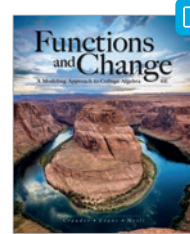
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Functions and Change

A Modeling Approach to College Algebra

6th Edition

Bruce Crauder, Oklahoma State University
Benny Evans, Oklahoma State University
Alan Noell, Oklahoma State University
© 2017 | 576pp | 9781337111348

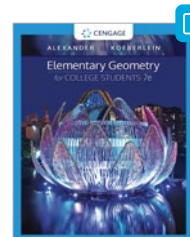


Functions and Change, 6th Edition, is ideal for both non-math and science majors, as well as students who may continue onto calculus. With an emphasis on business applications, this book helps students connect maths in the real world, master the material, and hone critical thinking skills. The authors incorporate graphing utilities, functions, modeling, real data, applications and projects to develop key skills and give students the practice they need to not only master basic mathematics, but also to apply it in future courses and, ultimately, their career.

Elementary Geometry for College Students

7th Edition

Daniel C. Alexander, Parkland College
Gerilyn M. Koeberlein, Mahomet-Seymour High School
© 2020 | 624pp | 9781337614085



This seventh edition explores the important principles and real-world applications of plane, coordinate, and solid geometry. Strongly influenced by both NCTM and AMATYC standards, the text includes intuitive, inductive, and deductive experiences in its explorations. Updates in this edition include the addition of 150 new problems, new applications, new Discover! activities and examples and additional material on select topics such as parabolas and a Three-Dimensional Coordinate System.

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TECHNICAL MATHEMATICS

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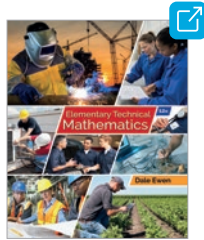
Elementary Technical Mathematics

12th Edition

Dale Ewen, Parkland College

© 2019 | 9781337630580

In *Elementary Technical Mathematics*, author Dale Ewen focuses on fundamental concepts in basic arithmetic: the metric system and measurement, algebra, geometry, trigonometry and statistics. Thousands of examples, exercises and applications cover such fields as industrial and construction trades, electronics, agriculture/horticulture, allied health, CAD/drafting, HVAC, welding, auto/diesel service, aviation, natural resources, culinary arts and business/personal finance--to engage students and provide them with the maths background they need to succeed in future courses and careers.



Introductory Technical Mathematics

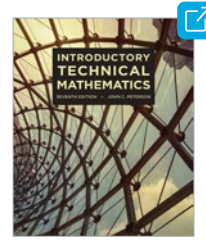
7th Edition

John Peterson, Chattanooga State Technical Community College

Robert D. Smith, Chattanooga State Technical Community College

© 2019 | 1040pp | 9781337397674

With an emphasis on real-world math applications, the seventh edition of *Introductory Technical Mathematics* provides readers with current and practical technical math applications for today's sophisticated trade and technical work environments. Straightforward and easy to understand, this hands-on book helps readers build a solid understanding of math concepts through step-by-step examples and problems drawn from various occupations.



PRECALCULUS

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Precalculus

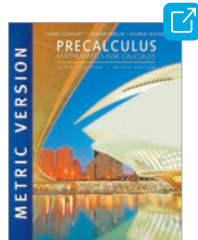
Mathematics for Calculus

International Metric Edition, 7th Edition

James Stewart, McMaster University
Lothar Redlin, Pennsylvania State University
Saleem Watson, California State University

© 2017 | 1024pp | 9781305999985

With its clear and simple writing style, *Precalculus, 7th Edition*, gives students a solid foundation in the principles of mathematical thinking. Problem solving and mathematical modeling are reinforced throughout. This comprehensive, evenly paced book provides complete coverage of the function concept and integrates substantial graphing calculator materials that help students develop insight into mathematical ideas.



ALGEBRA

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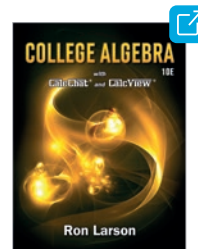
College Algebra

10th Edition

Ron Larson, The Pennsylvania State University

© 2018 | 9781337282291

Larson's *College Algebra, 10th Edition* is known for delivering sound explanations of mathematical concepts and carefully selected exercises to prepare students for further study in mathematics. With the Tenth Edition, Larson continues to transform the way students learn by including more real-world applications, ongoing review, and technology.



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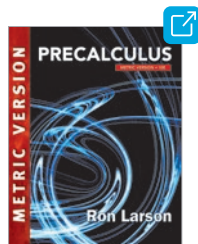
Precalculus

International Metric Edition, 10th Edition

Ron Larson, The Pennsylvania State University

© 2018 | 976pp | 9781337685191

Larson's *Precalculus* is known for sound, consistently structured explanations of mathematical concepts and exercises to expertly prepare students for calculus. With the Tenth Edition, the author continues to revolutionize the way students learn by incorporating more real-world applications and innovative technology. It includes How Do You See It? exercises that let students practice applying concepts and Summarize and Checkpoint questions to reinforce students' understanding.



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College Algebra

7th Edition

James Stewart, McMaster University
Lothar Redlin, Pennsylvania State University
Saleem Watson, California State University

© 2016 | 832pp | 9781305115545

Along with longtime coauthors Lothar Redlin and Saleem Watson, James Stewart wrote *College Algebra* specifically to help students learn to think mathematically and to develop genuine problem-solving skills. Incorporating technology, real-world applications, and useful pedagogy, the seventh edition promises to help more students than ever build conceptual understanding and a core of fundamental skills.



Available with WEBASSIGN

Precalculus with Limits

4th Edition

Ron Larson, The Pennsylvania State University

© 2018 | 9781337271189

Larson's *Precalculus with Limits* is known for delivering the same sound explanations and exercises as his core Precalculus text, with a concentrated focus on preparation for calculus.



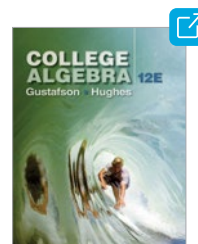
Available with WEBASSIGN

College Algebra

12th Edition

R. David Gustafson, Rock Valley College
Jeff Hughes, Hinds Community College

© 2017 | 848pp | 9781305652231



TRIGONOMETRY

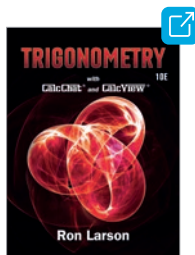
Available with WEBASSIGN

Trigonometry

10th Edition

Ron Larson, The Pennsylvania State University
© 2018 | 9781337278461

Larson's *Trigonometry* incorporates real-world applications, ongoing review, and innovative technology. It includes How Do You See It? exercises to help students practice applying the concepts, and new Summarize features and Checkpoint problems that reinforce understanding of the skill sets to help students better prepare for tests.

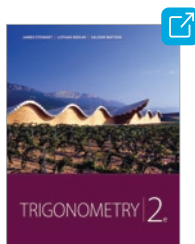


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Trigonometry

2nd Edition

James Stewart, McMaster University
Lothar Redlin, Pennsylvania State University
Saleem Watson, California State University
© 2013 | 624pp | 9781111574482



Available with WEBASSIGN

Trigonometry

8th Edition

Charles P. McKeague, Cuesta Community College
Mark Turner, Cuesta College
© 2017 | 624pp | 9781305652224

Students gain a solid understanding of the principles of trigonometry and how these concepts apply to real life with McKeague/ Turner's *Trigonometry*. The book presents contemporary concepts in brief, manageable sections using current, detailed examples and interesting applications. Captivating illustrations such as cycling, the Ferris wheel, and the human cannonball show trigonometry in action. Unique Historical Vignettes offer a fascinating glimpse at how many of the central ideas in trigonometry began. The text is easy to read, and important theorems and definitions are boxed so they can be quickly identified for study purposes.



ALGEBRA & TRIGONOMETRY

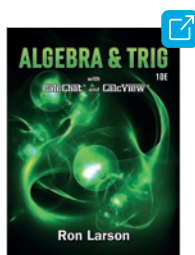
Available with WEBASSIGN

Algebra & Trigonometry

10th Edition

Ron Larson, The Pennsylvania State University
© 2018 | 9781337271172

Larson's *Algebra And Trigonometry* is ideal for a two-term course and known for delivering sound, consistently structured explanations and carefully written exercises. It includes How Do You See It? exercises that give students practice applying the concepts and Summarize and Checkpoint questions to reinforce understanding of skills.



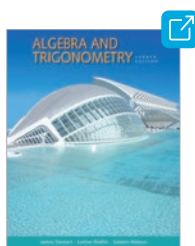
Available with WEBASSIGN

Algebra and Trigonometry

4th Edition

James Stewart, McMaster University
Lothar Redlin, Pennsylvania State University
Saleem Watson, California State University
© 2016 | 1136pp | 9781305071742

This bestselling author team explains concepts simply and clearly, without glossing over difficult points. Problem solving and mathematical modeling are introduced early and reinforced throughout, providing students with a solid foundation in the principles of mathematical thinking. Comprehensive and evenly paced, the book provides complete coverage of the function concept, and integrates a significant amount of graphing calculator material to help students develop insight into mathematical ideas.



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Algebra and Trigonometry

8th Edition

Richard N. Aufmann, Palomar College
Richard D. Nation, Palomar College
© 2015 | 1088pp | 9781285449425

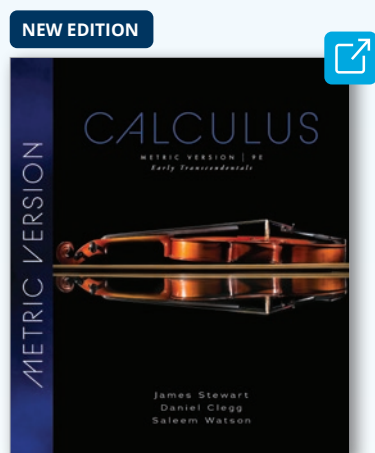
Accessible to students and flexible for instructors, *Algebra And Trigonometry, 8th Edition* incorporates the dynamic link between concepts and applications to bring mathematics to life. By integrating interactive learning techniques, the Aufmann author team helps students to better understand concepts, work independently, and obtain greater mathematical fluency. The text also includes technology features to accommodate courses that allow the option of using graphing calculators. In the eighth edition, Review Notes are featured more prominently throughout the text to help students recognize the key prerequisite skills needed to understand new concepts.



JAMES STEWART'S CALCULUS

James Stewart's Calculus texts are widely renowned for their mathematical precision and accuracy, clarity of exposition, and outstanding examples and problem sets. Millions of students worldwide have explored calculus through Stewart's trademark style, while instructors have turned to his approach time and time again.

The Ninth Metric Editions feature carefully revised content alongside the patient explanations, superb exercises, focus on problem solving, and carefully graded problem sets that have made Stewart's texts best-sellers.

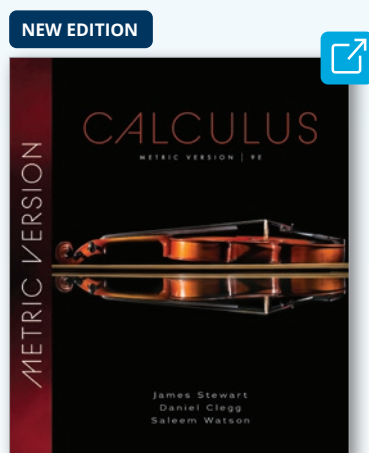


Calculus

Early Transcendentals
International Metric Edition
9th Edition
© 2021 | 1368pp | 9780357113516

Single Variable Calculus

Early Transcendentals
International Metric Edition
9th Edition
© 2021 | 960pp | 9780357113523



Calculus

International Metric Edition
9th Edition
© 2021 | 1368pp | 9780357113462

Single Variable Calculus

International Metric Edition
9th Edition
© 2021 | 984pp | 9780357113479

Multivariable Calculus

International Metric Edition
9th Edition
© 2021 | 624pp | 9780357113509

KEY FEATURES

- New exercises, subheadings and examples make the Ninth editions even more usable as a teaching and learning tool. Many new graphs and illustrations provide additional graphical insights.
- Includes more than 8,000 quality exercises that progress from skill-development problems to more challenging problems involving applications and proofs to encourage students to develop and apply their skills. Comprehensive review sections follow each chapter and further support conceptual understanding.
- A "Concept Check" and "True/False Quiz" allow students to prepare for upcoming tests through ideas and skill-building.

Available with WEBASSIGN

- A customisable online resource that provides learning content, homework, tests and practice problems with instant assessment. New Explore It modules help students to visualize complex topics through interactive simulation.

Accompanying Student Solutions Manuals and Study Guides are also available for Stewart's Calculus textbooks. Please contact your local Cengage representative for more information.

ABOUT THE AUTHORS

James Stewart

Stewart, who passed away in 2014, was a world-renowned author and mathematician publishing more than 70 textbooks over the course of his life. He received his M.S. from Stanford University and his Ph.D. from the University of Toronto. He did research at the University of London and was influenced by the famous mathematician George Polya at Stanford University. Stewart was the author of the best-selling calculus textbook series, including *Calculus*, *Calculus: Early Transcendentals* and *Calculus: Concepts And Contexts*, as well as a series of precalculus texts.

Daniel Clegg

Daniel Clegg, a former colleague of Stewart's, will author the new editions. Daniel Clegg is a Professor of Mathematics at Palomar College and assisted Stewart with various aspects of his calculus texts.

Saleem Watson

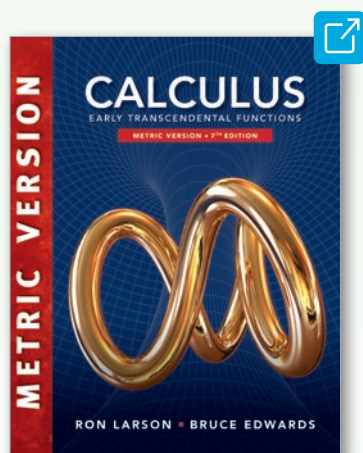
Saleem Watson is a Professor of Mathematics at California State University, Long Beach, specializing in the field of Functional Analysis. He co-authored the best-selling *Precalculus: Mathematics for Calculus* with Stewart and Redlin.

CALCULUS BY RON LARSON AND BRUCE EDWARDS



With a clear, effective design and a wealth of exercises to help students hone their skills, the new metric editions of Larson and Edwards' Calculus textbooks address the needs of a broad range of teaching and learning styles.

The student-focused pedagogy, complimented by online tools and resources, supports students in developing a comprehensive understanding of Calculus concepts and how to apply them, with real-life exercises to reinforce their problem-solving skills.

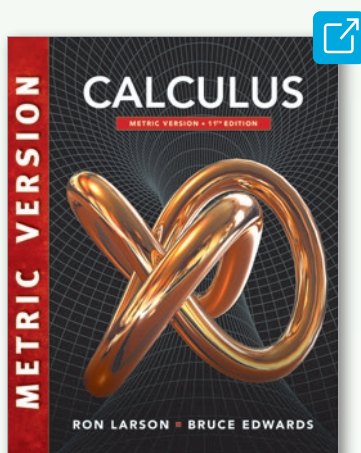


Calculus

Early Transcendental Functions
International Metric Edition
7th Edition
© 2019 | 9781337782432

Calculus of a Single Variable

Early Transcendental Functions
International Metric Edition
7th Edition
© 2019 | 1312pp | 9781337782449



Calculus

International Metric Edition
11th Edition
© 2018 | 9781337616195

Calculus of a Single Variable

International Metric Edition
11th Edition
© 2018 | 9781337616201

Multivariable Calculus

International Metric Edition
11th Edition
© 2018 | 9781337616218

KEY FEATURES

- How Do You See It? exercises in each section present a problem that students solve by visual inspection using the concepts learned in the lesson.
- Hints and tips are included to reinforce or expand upon concepts, help students learn how to study mathematics, caution them against common errors, address special cases, or show alternative or additional steps to a solution of an example.
- Comprehensive question sets include multi-step, real-life exercises that reinforce problem-solving skills and mastery of concepts by giving students the opportunity to apply the concepts in real-life situations.
- LarsonCalculus.com – The authors created a free companion website offering many valuable resources, including videos, interactive examples and rotatable graphs.
- Available with **WEBASSIGN**

ABOUT THE AUTHORS

Ron Larson

Dr. Ron Larson is a professor of mathematics at The Pennsylvania State University, where he has taught since 1970 and is considered the pioneer of using multimedia to enhance the learning of mathematics, having authored over 30 software titles since 1990. He has also received numerous awards for his various Calculus textbooks.

Bruce H. Edwards

Dr. Bruce H. Edwards is Professor of Mathematics at the University of Florida. While teaching at the University of Florida, Professor Edwards has won many teaching awards, including Teacher of the Year in the College of Liberal Arts and Sciences and the University of Florida Honors Program Teacher of the Year.

APPLIED CALCULUS FOR BUSINESS

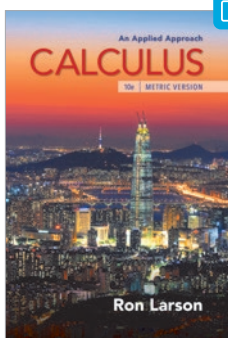
Available with WEBASSIGN

Calculus

An Applied Approach
International Metric Edition
10th Edition

Ron Larson, The Pennsylvania State University
© 2017 | 864pp | 9781337290562

Designed specifically for business, economics and life/social sciences courses, *Calculus: An Applied Approach* motivates students while fostering understanding and mastery. The book emphasizes integrated and engaging applications that show the real-world relevance of topics and concepts with applied problems drawn from industry, current events, and other disciplines to provide well-rounded examples that appeal to diverse interests. The Tenth Edition builds upon its applications emphasis through updated exercises and relevant examples. Throughout the text, features such as algebra review and study tips provide students with extra guidance and practice. Stepped-out solution videos with instruction are available at CalcView.com for selected exercises throughout the text. Additionally, the companion website, LarsonAppliedCalculus.com, offers free access to multiple tools and resources.



ALSO AVAILABLE

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Calculus

An Applied Approach, Brief
International Metric Edition
10th Edition

Ron Larson, The Pennsylvania State University
© 2017 | 640pp | 9781337290579

CALCULUS FOR BIOLOGICAL SCIENCES

Includes additional
chapters on Probability
and Statistics

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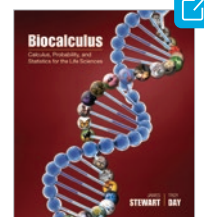
Biocalculus

Calculus, Probability, and Statistics for the Life Sciences

James Stewart, McMaster University
Troy Day, Queens' University

© 2016 | 1032pp | 9781305114036

This book shows students how calculus relates to biology, with additional coverage of probability and statistics. The text motivates and illustrates the topics of calculus with examples drawn from many areas of biology, including genetics, biomechanics, medicine, pharmacology, physiology, ecology, epidemiology, and evolution, to name a few. Particular attention has been paid to ensuring that all applications of the mathematics are genuine, and references to the primary biological literature for many of these has been provided so that students and instructors can explore the applications in greater depth. Although the focus is on the interface between mathematics and the life sciences, the logical structure of the book is motivated by the mathematical material. Students will come away with a sound knowledge of mathematics, an understanding of the importance of mathematical arguments, and a clear understanding of how these mathematical concepts and techniques are central in the life sciences.



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Biocalculus

Calculus for Life Sciences

James Stewart, McMaster University
Troy Day, Queens' University

© 2015 | 900pp | 9781133109631

MATHEMATICS FOR MANAGEMENT AND THE SCIENCES

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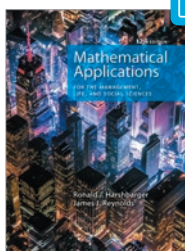
Mathematical Applications for the Management, Life, and Social Sciences

12th Edition

Ronald J. Harshbarger, University of South Carolina
James J. Reynolds, Clarion University

© 2019 | 9781337625340

Mathematical Applications For The Management, Life, And Social Sciences, 12th Edition, helps students succeed in finite mathematics and applied calculus courses by tying the concepts to real-life applications using real, meaningful data. Designed for students in business, economics, life sciences and social sciences, the book offers a brief review of algebra to prepare students with different backgrounds.



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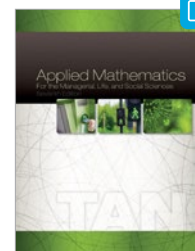
Applied Mathematics for the Managerial, Life, and Social Sciences

7th Edition

Soo T. Tan, Stonehill College

© 2016 | 1024pp | 9781305107908

A traditional book with a modern feel, teaches by application and uses real-world examples to motivate students. It combines solid theory with innovative technology, includes a robust supplements package, and offers unmatched flexibility that caters to both traditional and modern practitioners.



DISCRETE MATHEMATICS

FINITE MATHEMATICS

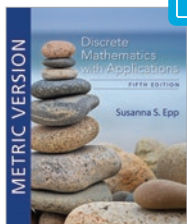
NEW EDITION

Available with WEBASSIGN

Discrete Mathematics with Applications

International Metric Edition
5th Edition

Susanna S. Epp, DePaul University
© 2020 | 984pp | 9780357114087



Known for its accessible, precise approach, Epp's *Discrete Mathematics with Applications, 5th Edition*, introduces discrete mathematics with clarity and precision. Coverage emphasizes the major themes of discrete mathematics as well as the reasoning that underlies mathematical thought. Students learn to think abstractly as they study the ideas of logic and proof. While learning about logic circuits and computer addition, algorithm analysis, recursive thinking, computability, automata, cryptography and combinatorics, students discover that ideas of discrete mathematics underlie and are essential to today's science and technology.

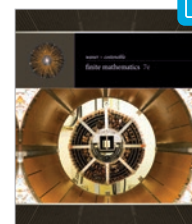


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Finite Mathematics

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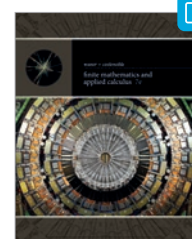


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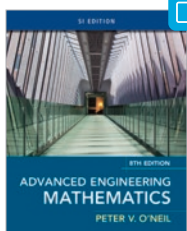


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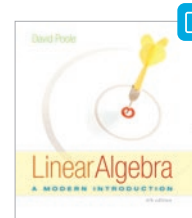


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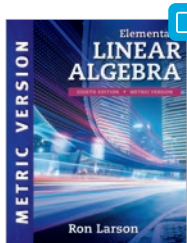
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NUMERICAL ANALYSIS AND METHODS

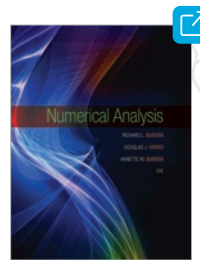
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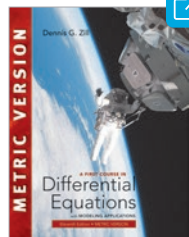
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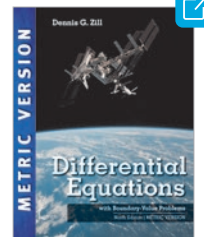
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STATISTICS



INTRODUCTORY STATISTICS

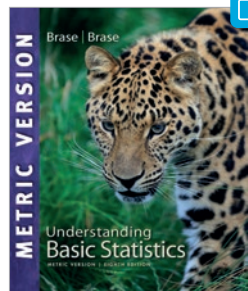
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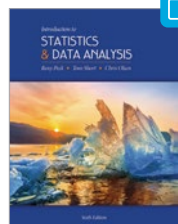
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Roxy Peck, California Polytechnic State University
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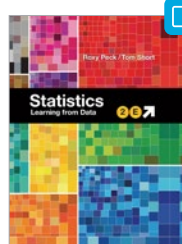
Introduction To Statistics And Data Analysis introduces students to the study of statistics and data analysis by using real data and attention-grabbing examples. The authors guide the reader through an intuition-based learning process that stresses interpretation and communication of statistical information. Simple notation--including frequent substitution of words for symbols--helps students grasp concepts and cement their comprehension. You'll also find coverage of most major technologies as a problem-solving tool, plus hands-on activities in each chapter that allow your class to practice statistics firsthand.

Statistics

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Roxy Peck, California Polytechnic State University
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Statistics: Learning From Data, addresses common problems faced by students and instructors with an innovative approach to elementary statistics. Translating research on student learning in statistics and probability into practice, the authors tackle areas students struggle with most -- probability, hypothesis testing, and selecting an appropriate method of analysis. Supported by learning objectives, real-data examples and exercises, and technology notes, this important resource helps students to develop conceptual understanding, mechanical proficiency, and the ability to put knowledge into practice.

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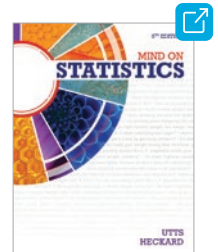
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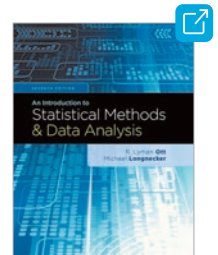
Mind On Statistics, 5th Edition, helps students to develop a conceptual understanding of statistical ideas and discover how to find meaning in data. The authors engage students' curiosity with intriguing questions, and explain statistical topics in the context of interesting, useful examples and case studies. Your students will develop statistical intuition by focusing on analyzing data and interpreting results, rather than on mathematical formulation building both statistical literacy and an understanding of statistical methodology.

An Introduction to Statistical Methods and Data Analysis

7th Edition

R. Lyman Ott
Michael T. Longnecker, Texas A&M University

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Ott and Longnecker's *An Introduction To Statistical Methods And Data Analysis, 7th Edition*, provides a broad overview of statistical methods for advanced undergraduate and graduate students from a variety of disciplines who have little or no prior course work in statistics. The authors teach students to solve problems encountered in research projects, to make decisions based on data in general settings both within and beyond the university setting, and to become critical readers of statistical analyses in research papers and news reports. The first eleven chapters present material typically covered in an introductory statistics course, as well as case studies and examples that are often encountered in undergraduate capstone courses. The remaining chapters cover regression modeling and design of experiments.

STATISTICS



PROBABILITY AND STATISTICS

REGRESSION ANALYSIS

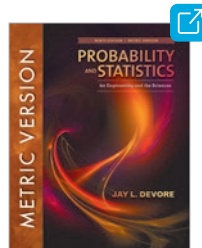
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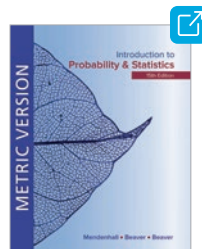
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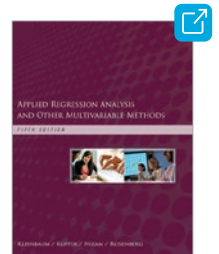
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APPLIED STATISTICS

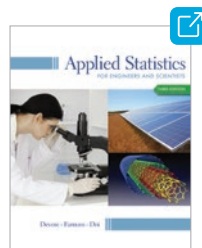
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This concise book for engineering and sciences students emphasizes modern statistical methodology and data analysis. *Applied Statistics for Engineers and Scientists* is ideal for one-term courses that cover probability only to the extent that it is needed for inference. The authors emphasize application of methods to real problems, with real examples throughout.

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