

Differential Equations and Boundary Value Problems: Computing and Modeling Edition 5

Edwards / Penney / Calvis

Binding Paperback | **Page Count** 800

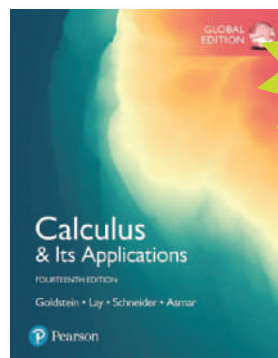
For introductory courses in differential equations

This best-selling text blends the traditional algebra problem-solving skills with the conceptual development and geometric visualization of a modern differential equations course that is essential to science and engineering students. It reflects the new qualitative approach that is altering the learning of elementary differential equations, including the wide availability of scientific computing environments like Maple, Mathematica, and MATLAB. Its focus balances the traditional manual methods with the new computer-based methods that illuminate qualitative phenomena and make accessible a wider range of more realistic applications. Seldom-used topics have been trimmed and new topics added: it starts and ends with discussions of mathematical modeling of real-world phenomena, evident in figures, examples, problems, and applications throughout the text.

Table of Contents

1. First-Order Differential Equations
2. Mathematical Models and Numerical Methods
3. Linear Equations of Higher Order
4. Introduction to Systems of Differential Equations
5. Linear Systems of Differential Equations
6. Nonlinear Systems and Phenomena
7. Laplace Transform Methods
8. Power Series Methods
9. Fourier Series Methods and Partial Differential Equations
10. Eigenvalue Methods and Boundary Value Problems

ISBN 9781292108773 | **PUB Date** 9/10/2017



Calculus & Its Applications Edition 14

Goldstein / Lay / Schneider / Asmar

Binding Paperback | **Page Count** 664

For one- or two-semester courses in Calculus for students majoring in business, social sciences, and life sciences

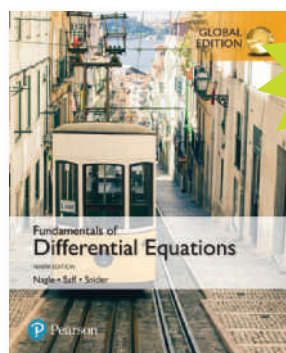
Calculus & Its Applications builds intuition with key concepts of calculus before the analytical material. For example, the authors explain the derivative geometrically before they present limits, and they introduce the definite integral intuitively via the notion of net change before they discuss Riemann 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.

Time-tested, comprehensive exercise sets are flexible enough to align with each instructor's needs, and new exercises and resources in MyLab™ Math help develop not only skills, but also conceptual understanding, visualization, and applications. The 14th Edition features updated exercises, applications, and technology coverage, presenting calculus in an intuitive yet intellectually satisfying way.

Table of Contents

0. Functions
1. The Derivative
2. Applications of the Derivative
3. Techniques of Differentiation
4. The Exponential and Natural Logarithm Functions
5. Applications of the Exponential and Natural Logarithm Functions
6. The Definite Integral
7. Functions of Several Variables
8. The Trigonometric Functions
9. Techniques of Integration
10. Differential Equations
11. Taylor Polynomials and Infinite Series
12. Probability and Calculus

ISBN 9781292229041 | **PUB Date** 4/23/2018



MyLab
Math
available

Fundamentals of Differential Equations, Global Edition Edition 9

Nagle / Saff / Snider

Binding Paperback | Page Count 720

ISBN 9781292240992 | PUB Date 2/19/2018

For one-semester sophomore- or junior-level courses in Differential Equations

An introduction to the basic theory and applications of differential equations

Fundamentals of Differential Equations presents the basic theory of differential equations and offers a variety of modern applications in science and engineering. This flexible text allows instructors to adapt to various course emphases (theory, methodology, applications, and numerical methods) and to use commercially available computer software. For the first time, MyLab™ Math is available for this text, providing online homework with immediate feedback, the complete eText, and more.

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1.3 Direction Fields	5.7 Electrical Systems	10.1 Introduction: A Model for Heat Flow
1.4 The Approximation Method of Euler	5.8 Dynamical Systems, Poincaré Maps, and Chaos	10.2 Method of Separation of Variables
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3.1 Mathematical Modeling	7.3 Properties of the Laplace Transform	11.3 Regular Sturm-Liouville Boundary Value Problems
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3.4 Newtonian Mechanics	7.6 Transforms of Discontinuous Functions	11.6 Green's Functions
3.5 Electrical Circuits	7.7 Transforms of Periodic and Power Functions	11.7 Singular Sturm-Liouville Boundary Value Problems.
3.6 Numerical Methods: A Closer Look At Euler's Algorithm	7.8 Convolution	11.8 Oscillation and Comparison Theory
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4.5 The Superposition Principle and Undetermined Coefficients Revisited	8.4 Equations with Analytic Coefficients	12.6 Limit Cycles and Periodic Solutions
4.6 Variation of Parameters	8.5 Cauchy-Euler (Equidimensional) Equations	12.7 Stability of Higher-Dimensional Systems
4.7 Variable-Coefficient Equations	8.6 Method of Frobenius	13. Existence and Uniqueness Theory
4.8 Qualitative Considerations for Variable-Coefficient and Nonlinear Equations	8.7 Finding a Second Linearly Independent Solution	13.1 Introduction: Successive Approximations
4.9 A Closer Look at Free Mechanical Vibrations	8.8 Special Functions	13.2 Picard's Existence and Uniqueness Theorem
4.10 A Closer Look at Forced Mechanical Vibrations	9. Matrix Methods for Linear Systems	13.3 Existence of Solutions of Linear Equations
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5.1 Interconnected Fluid Tanks	9.2 Review 1: Linear Algebraic Equations	Appendix A Review of Integration Techniques
5.2 Differential Operators and the Elimination Method for Systems	9.3 Review 2: Matrices and Vectors	Appendix B Newton's Method
5.3 Solving Systems and Higher-Order Equations Numerically	9.4 Linear Systems in Normal Form	Appendix C Simpson's Rule
	9.5 Homogeneous Linear Systems with Constant Coefficients	Appendix D Cramer's Rule
	9.6 Complex Eigenvalues	Appendix E Method of Least Squares
		Appendix F Runge-Kutta Procedure for n Equations
		Appendix G Software for Analyzing Differential Equations



Thomas' Calculus Edition 14

Hass / Heil / Weir

Binding Paperback | **Page Count** 1224

For three-semester or four-quarter courses in Calculus for students majoring in mathematics, engineering, or science

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 the 14th 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.

Table of Contents

1. Functions
2. Limits and Continuity
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13. Vector-Valued Functions and Motion in Space
14. Partial Derivatives
15. Multiple Integrals
16. Integrals and Vector Fields
17. Second-Order Differential Equations
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 3. Lines, Circles, and Parabolas
 4. Proofs of Limit Theorems
 5. Commonly Occurring Limits
 6. Theory of the Real Numbers
 7. Complex Numbers
 8. The Distributive Law for Vector Cross Products
 9. The Mixed Derivative Theorem and the Increment Theorem

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Thomas' Calculus: Early Transcendentals, 14/e Edition 14

Hass / Heil / Weir

Binding Paperback | **Page Count** 1232

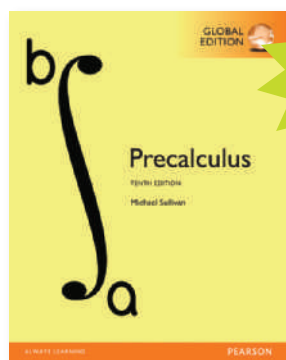
For three-semester or four-quarter courses in Calculus for students majoring in mathematics, engineering, or science

Thomas' Calculus: Early Transcendentals 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.

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14. Multiple Integrals
15. Integrals and Vector Fields
16. First-Order Differential Equations
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 10. The Distributive Law for Vector Cross Products AP-34
 11. The Mixed Derivative Theorem and the Increment Theorem

ISBN 9781292253114 | **PUB Date** 4/2/2018



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Precalculus Edition 10

Sullivan

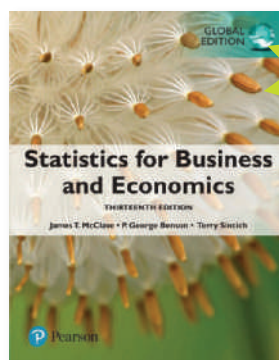
Binding Paperback | **Page Count** 1176

Mike Sullivan's time-tested approach in *Precalculus* focuses students on the fundamental skills they need for the course: preparing for class, practicing with homework, and reviewing the concepts. The 10th Edition has evolved to meet today's course needs.

Table of Contents

1. Graphs
 2. Functions and Their Graphs
 3. Linear and Quadratic Functions
 4. Polynomial and Rational Functions
 5. Exponential and Logarithmic Functions
 6. Trigonometric Functions
 7. Analytic Trigonometry
 8. Applications of Trigonometric Functions
 9. Polar Coordinates; Vectors
 10. Analytic Geometry
 11. Systems of Equations and Inequalities
 12. Sequences; Induction; the Binomial Theorem
 13. Counting and Probability
 14. A Preview of Calculus: The Limit, Derivative, and Integral of a Function
- Appendix A: Review
Appendix B: Graphing Utilities

ISBN 9781292121772 | **PUB Date** 4/1/2018



MyLab
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Statistics for Business and Economics Edition 13

McClave / Benson / Sincich

Binding Paperback | **Page Count** 888

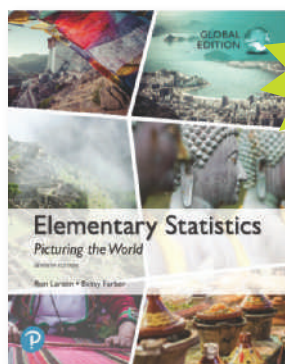
For courses in Introductory Business Statistics

Now in its 13th Edition, *Statistics for Business and Economics* introduces statistics in the context of contemporary business. Emphasizing statistical literacy in thinking, the text applies its concepts with real data and uses technology to develop a deeper conceptual understanding. Examples, activities, and case studies foster active learning in the classroom while emphasizing intuitive concepts of probability and teaching students to make informed business decisions. The 13th Edition continues to highlight the importance of ethical behavior in collecting, interpreting, and reporting on data, while also providing a wealth of new and updated exercises and case studies.

Table of Contents

1. Statistics, Data, and Statistical Thinking
2. Methods for Describing Sets of Data
3. Probability
4. Random Variables and Probability Distributions
5. Sampling Distributions
6. Inferences Based on a Single Sample: Estimation with Confidence Intervals
7. Inferences Based on a Single Sample: Tests of Hypotheses
8. Inferences Based on Two Samples: Confidence Intervals and Tests of Hypotheses
9. Design of Experiments and Analysis of Variance
10. Categorical Data Analysis
11. Simple Linear Regression
12. Multiple Regression and Model Building
13. Methods for Quality Improvement: Statistical Process Control (Available Online)
14. Time Series: Descriptive Analyses, Models, and Forecasting (Available Online)
15. Nonparametric Statistics (Available Online)

ISBN 9781292227085 | **PUB Date** 2/3/2018



MyLab
Statistics
available

Elementary Statistics: Picturing the World Edition 7

Larson / Farber

Binding Paperback | **Page Count** 712

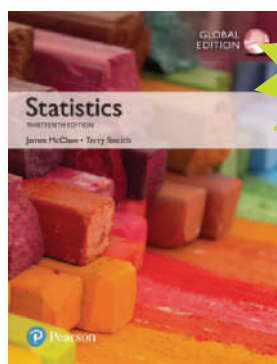
For courses in Introductory Statistics (algebra-based)

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 7th Edition incorporates a thorough update of key features, examples, and exercises.

Table of Contents

- I. DESCRIPTIVE STATISTICS
 - 1. Introduction to Statistics
 - 2. Descriptive Statistics
 - 3. Probability
 - 4. Discrete Probability Distributions
 - 5. Normal Probability Distributions
 - 6. Confidence Intervals
 - 7. Hypothesis Testing with One Sample
 - 8. Hypothesis Testing with Two Samples
- IV. MORE STATISTICAL INFERENCE
 - 9. Correlation and Regression
 - 10. Chi-Square Tests and the F -Distribution
- APPENDICES
 - Appendix A: Alternative Presentation of the Standard Normal Distribution
 - Appendix B: Tables

ISBN 9781292260464 | **PUB Date** 1/13/2018



MyLab
Statistics
available

Statistics Edition 13

McClave / Sincich

Binding Paperback | **Page Count** 896

For courses in introductory statistics

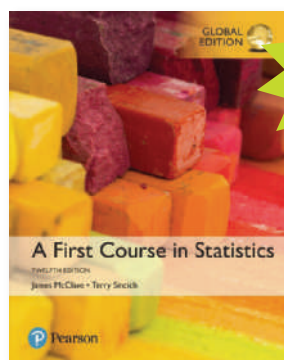
Classic, yet contemporary; theoretical, yet applied. McClave & Sincich's Statistics gives you the best of both worlds. This text offers a trusted, comprehensive introduction to statistics that emphasizes inference and integrates real data throughout. The authors stress the development of statistical thinking, the assessment of credibility, and value of the inferences made from data. This new edition is extensively revised with an eye on clearer, more concise language throughout the text and in the exercises.

Ideal for one- or two-semester courses in introductory statistics, this text assumes a mathematical background of basic algebra. Flexibility is built in for instructors who teach a more advanced course, with optional footnotes about calculus and the underlying theory.

Table of Contents

- 1. Statistics, Data, and Statistical Thinking
- 2. Methods for Describing Sets of Data
- 3. Probability
- 4. Discrete Random Variables
- 5. Continuous Random Variables
- 6. Sampling Distributions
- 7. Inferences Based on a Single Sample: Estimation with Confidence Intervals
- 8. Inferences Based on a Single
- 9. Inferences Based on Two Samples: Confidence Intervals and Tests of Hypotheses
- 10. Analysis of Variance: Comparing More than Two Means
- 11. Simple Linear Regression
- 12. Multiple Regression and Model Building
- 13. Categorical Data Analysis
- 14. Nonparametric Statistics (available online)

ISBN 9781292161556 | **PUB Date** 4/1/2018



A First Course in Statistics Edition 12

McClave / Sincich

Binding Paperback | **Page Count** 640

For courses in introductory statistics

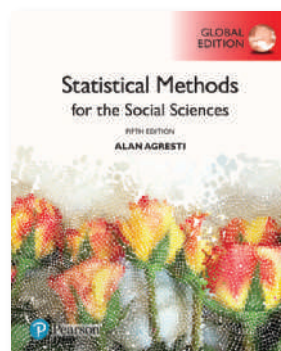
Classic, yet contemporary; theoretical, yet applied—McClave & Sincich's *A First Course in Statistics* gives you the best of both worlds. This text offers a trusted, comprehensive introduction to statistics that emphasizes inference and integrates real data throughout. The authors stress the development of statistical thinking, the assessment of credibility, and value of the inferences made from data. This new edition is extensively revised with an eye on clearer, more concise language throughout the text and in the exercises.

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14. Nonparametric Statistics (available online)

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Statistical Methods for the Social Sciences Edition 5

Agresti

Binding Paperback | **Page Count** 568

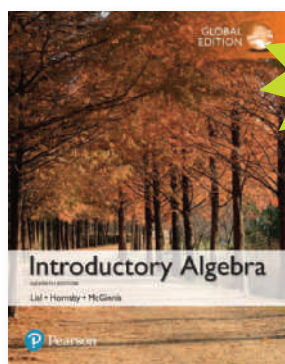
For courses in Statistical Methods for the Social Sciences

Statistical Methods for the Social Sciences introduces statistical methods to students majoring in social science disciplines. With an emphasis on concepts and applications, this book assumes no previous knowledge of statistics and only a minimal mathematical background. It contains sufficient material for a two-semester course. The 5th Edition uses examples and exercises with a variety of real data. It includes more illustrations of statistical software for computations and takes advantage of the outstanding applets to explain key concepts, such as sampling distributions and conducting basic data analyses. It continues to downplay mathematics (often a stumbling block for students) while avoiding reliance on an overly simplistic recipe-based approach to statistics.

Table of Contents

- Introduction
- Sampling and Measurement
- Descriptive Statistics
- Probability Distributions
- Statistical Inference: Estimation
- Statistical Inference: Significance Tests
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- Analyzing Association between Categorical Variables
- Linear Regression and Correlation
- Introduction to Multivariate Relationships
- Multiple Regression and Correlation
- Regression with Categorical Predictors: Analysis of Variance Methods
- Multiple Regression with Quantitative and Categorical Predictors
- Model Building with Multiple Regression
- Logistical Regression: Modeling Categorical Responses
- Appendix: R, Stata, SPSS, and SAS for Statistical Analyses
- Answers to Select Odd-Numbered Exercises

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MyLab
Math
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Introductory Algebra, Global Edition Edition 11

Lial / Hornsby / McGinnis

Binding Paperback | **Page Count** 752

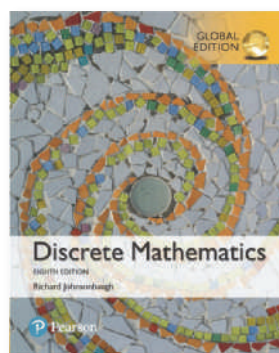
For courses in Beginning Algebra

The Lial Series has helped thousands of students succeed in developmental mathematics by combining clear, concise writing and examples with carefully crafted exercises to support skill development and conceptual understanding. Written with the developmental learner in mind, the precise, accessible writing style delivers help precisely when needed. The revision of the series faithfully continues to support students with enhancements in the text and Pearson MyLab Mathematics course to encourage conceptual understanding beyond skills and procedures. Student-oriented features throughout the text and Pearson MyLab Mathematics, including the Relating Concepts exercises, Guided Solutions, Test Your Word Power, and the Lial Video Library, make the Lial series one of the most well-rounded and student-friendly on the market.

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- R. Prealgebra Review
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- R.2 Decimals and Percents
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- 4. Systems of Linear Equations and Inequalities
- 5. Exponents and Polynomials
- 6. Factoring and Applications
- 7. Rational Expressions and Applications
- 8. Roots and Radicals
- 9. Quadratic Equations

ISBN 9781292246123 | **PUB Date** 4/1/2018



Discrete Mathematics, 8/e Edition 8

Johnsonbaugh

Binding Paperback | **Page Count** 712

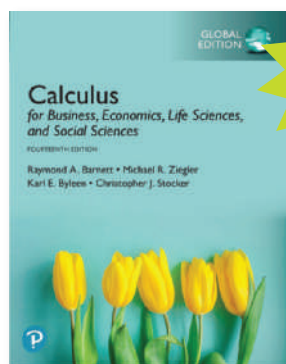
For one- or two-term introductory courses in discrete mathematics

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. Many proofs are illustrated with annotated figures and/or motivated by special Discussion sections. The side margins of the text now include directions to relevant applications, extensions, and computer programs on the textbook website.

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- 8. Graph Theory
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- 11. Boolean Algebras and Combinatorial Circuits
- 12. Automata, Grammars, and Languages
- 13. Computational Geometry
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- A. Matrices
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- References
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- Index

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

Barnett / Ziegler / Byleen / Stocker

Binding Paperback | **Page Count** 800

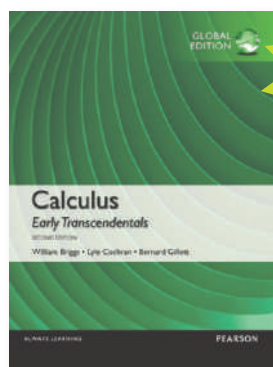
For two-semester courses in Calculus

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.

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ISBN 9781292266152 | **PUB Date** 2/3/2018



Calculus: Early Transcendentals Edition 2

Briggs / Cochran / Gillett

Binding Paperback | **Page Count** 1320

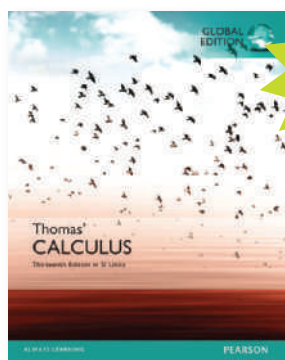
For a three-semester or four-quarter calculus course covering single variable and multivariable calculus for mathematics, engineering, and science majors

This book 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 through examples that are stepped out and thoughtfully annotated, and figures that are designed to teach rather than supplement the narrative.

Table of Contents

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Appendix B. Proofs of Selected Theorems
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D1.2 Direction Fields and Euler's Method
D1.3 Separable Differential Equations
D1.4 Special First-Order Differential Equations
D1.5 Modeling with Differential Equations
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D2.3 Linear Nonhomogeneous Equations
D2.4 Applications
D2.5 Complex Forcing Functions

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MyLab
Math
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Thomas' Calculus SI Edition 13

Thomas / Weir / Hass

Binding Paperback | **Page Count** 1192

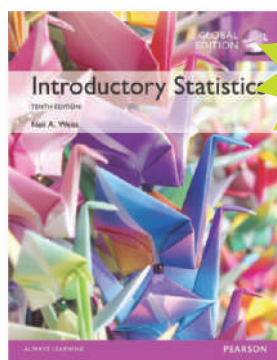
This text is designed for a three-semester or four-quarter calculus course (math, engineering, and science majors).

Calculus, 13th Edition, introduces students to the intrinsic beauty of calculus and the power of its applications. For more than half a century, this text has been revered for its clear and precise explanations, thoughtfully chosen examples, superior figures, and time-tested exercise sets. With this new edition, the exercises were refined, updated, and expanded.

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- 4 Applications of Derivatives
- 5 Integrals
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- 7 Transcendental Functions
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 - A.6 Theory of the Real Numbers
 - A.7 Complex Numbers
 - A.8 The Distributive Law for Vector Cross Products
 - A.9 The Mixed Derivative Theorem and the Increment Theorem

ISBN 9781292089799 | **PUB Date** 2/25/2018



MyLab
Statistics
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Introductory Statistics Edition 10

Weiss

Binding Paperback | **Page Count** 856

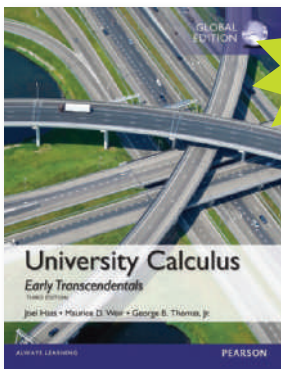
For introductory statistics courses

Weiss's Introductory Statistics, 10th Edition emphasizes statistical reasoning and critical thinking. Comprehensive in its coverage, Weiss's meticulous style offers careful, detailed explanations to ease the learning process. With more than 1,000 data sets and over 3,000 exercises, this text takes a data-driven approach that encourages students to apply their knowledge and develop statistical understanding.

Table of Contents

- PART I: Introduction
 - 1. The Nature of Statistics
- PART II: Descriptive Statistics
 - 2. Organizing Data
 - 3. Descriptive Measures
- PART III: Probability, Random Variables, and Sampling Distributions
 - 4. Probability Concepts
 - 5. Discrete Random Variables
 - 6. The Normal Distribution
 - 7. The Sampling Distribution of the Sample Mean
- PART IV: Inferential Statistics
 - 8. Confidence Intervals for One Population Mean
 - 9. Hypothesis Tests for One Population Mean
 - 10. Inferences for Two Population Means
 - 11. Inferences for Population Standard Deviations
 - 12. Inferences for Population Proportions
 - 13. Chi-Square Procedures
- PART V: Regression, Correlation, and ANOVA
 - 14. Descriptive Methods in Regression and Correlation
 - 15. Inferential Methods in Regression and Correlation
 - 16. Analysis of Variance (ANOVA)
- PART VI: Multiple Regression and Model Building; Experimental Design and ANOVA
 - MODULE A: Multiple Regression Analysis
 - MODULE B: Model Building in Regression
 - MODULE C: Design of Experiments and Analysis of Variance
- Answers to Selected Exercises
- Index
- Appendix A: Statistical Tables
- Appendix B: Answers to Selected Exercises

ISBN 9781292099729 | **PUB Date** 4/1/2018



University Calculus, Early Transcendentals Edition 3

Hass / Weir / Thomas

Binding Paperback | Page Count 1076

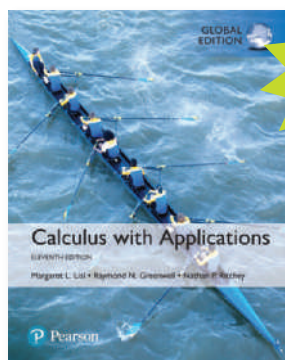
ISBN 9781292104034 | PUB Date 2/25/2018

For three-semester or four-quarter courses in calculus for math, science, and engineering majors

University Calculus, Early Transcendentals, 3rd Edition helps students generalize and apply the key ideas of calculus through clear and precise explanations, thoughtfully chosen examples, meticulously crafted figures, and superior exercise sets. This text offers the right mix of basic, conceptual, and challenging exercises, along with meaningful applications. This revision features more examples, more mid-level exercises, more figures, as well as improved conceptual flow, and the best in technology for learning and teaching.

Table of Contents

1. Functions
2. Limits and Continuity
3. Differentiation
4. Applications of Derivatives
5. Integration
6. Applications of Definite Integrals
7. Integrals and Transcendental Functions
8. Techniques of Integration
9. Infinite Sequences and Series
10. Parametric Equations and Polar Coordinates
11. Vectors and the Geometry of Space
12. Vector-Valued Functions and Motion in Space
13. Partial Derivatives
14. Multiple Integrals
15. Integration in Vector Fields
16. First-Order Differential Equations (Online)
17. Second-Order Differential Equations (Online)
- Appendices
 1. Real Numbers and the Real Line
 2. Mathematical Induction
 3. Lines, Circles, and Parabolas
 4. Conic Sections
 5. Proofs of Limit Theorems
 6. Commonly Occurring Limits
 7. Theory of the Real Numbers
 8. Complex Numbers
 9. The Distributive Law for Vector Cross Products
 10. The Mixed Derivative Theorem and the Increment Theorem
 11. Taylor's Formula for Two Variables



Calculus with Applications Edition 11

Lial / Greenwell / Ritchey

Binding Paperback | **Page Count** 864

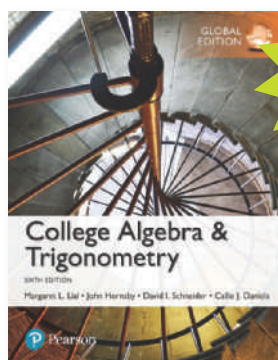
For freshman/sophomore, two-semester (2-3 quarter) courses covering applied calculus for students in business, economics, social sciences, or life sciences

Calculus with Applications, 11th Edition by Lial, Greenwell, and Ritchey, is our most applied text to date, making the math relevant and accessible for students of business, life science, and social sciences. Current applications, many using real data, are incorporated in numerous forms throughout the book, preparing students for success in their professional careers. With this edition, students will find new ways to help them learn the material, such as Warm-Up Exercises and added "help text" within examples.

Table of Contents

R. Algebra Reference
 R-1 Polynomials
 R-2 Factoring
 R-3 Rational Expressions
 R-4 Equations
 R-5 Inequalities
 R-6 Exponents
 R-7 Radicals
 1. Linear Functions
 2. Nonlinear Functions
 3. The Derivative
 4. Calculating the Derivative
 5. Graphs and the Derivative
 6. Applications of the Derivative
 7. Integration
 8. Further Techniques and Applications of Integration
 9. Multivariable Calculus
 10. Differential Equations
 11. Probability and Calculus
 12. Sequences and Series
 13. The Trigonometric Functions
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 Answers to Selected Exercises
 Photo Acknowledgements
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ISBN 9781292108971 | **PUB Date** 4/1/2018



College Algebra and Trigonometry Edition 6

Lial / Hornsby / Schneider / Daniels

Binding Paperback | **Page Count** 1200

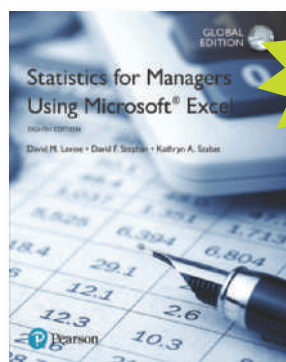
For courses in college algebra and trigonometry

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.

Table of Contents

1. Equations and Inequalities
 2. Graphs and Functions
 3. Polynomial and Rational Functions
 4. Inverse, Exponential, and Logarithmic Functions
 5. Trigonometric Functions
 6. The Circular Functions and Their Graphs
 7. Trigonometric Identities and Equations
 8. Applications of Trigonometry
 9. Systems and Matrices
 10. Analytic Geometry
 11. Further Topics in Algebra
 Appendices

ISBN 9781292151953 | **PUB Date** 4/2/2018



MyLab
Statistics
available

Statistics for Managers Using Microsoft Excel Edition 8

Levine / Stephan / Szabat

Binding Paperback | **Page Count** 728

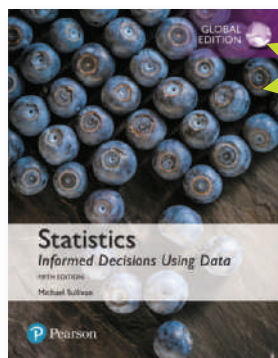
For undergraduate business statistics courses

This text is the gold standard for learning how to use Microsoft Excel® in business statistics, helping students gain the understanding they need to be successful in their careers. The authors present statistics in the context of specific business fields; full chapters on business analytics further prepare students for success in their professions. Current data throughout the text lets students practice analyzing the types of data they will see in their professions. The friendly writing style include tips throughout to encourage learning.

Table of Contents

- 1. Defining and Collecting Data
- 2. Organizing and Visualizing Variables
- 3. Numerical Descriptive Measures
- 4. Basic Probability
- 5. Discrete Probability Distributions
- 6. The Normal Distribution and Other Continuous Distributions
- 7. Sampling Distributions
- 8. Confidence Interval Estimation
- 9. Fundamentals of Hypothesis Testing: One-Sample Tests
- 10. Two-Sample Tests
- 11. Analysis of Variance
- 12. Chi-Square and Nonparametric Tests
- 13. Simple Linear Regression
- 14. Introduction to Multiple Regression
- 15. Multiple Regression Model Building
- 16. Time-Series Forecasting
- 17. Getting Ready to Analyze Data in the Future
- 18. Statistical Applications in Quality Management (online)
- 19. Decision Making (online)
- Appendices
 - A. Basic Math Concepts and Symbols
 - B. Important Excel and Minitab Skills and Concepts
 - C. Online Resources
 - D. Configuring Microsoft Excel
 - E. Tables
 - F. Useful Excel Knowledge
 - G. Software FAQs
- Self-Test Solutions and Answers to Selected Even-Numbered Problems

ISBN 9781292156347 | **PUB Date** 9/10/2017



MyLab
Statistics
available

Statistics: Informed Decisions Using Data Edition 5

Sullivan

Binding Paperback | **Page Count** 976

For courses in introductory statistics

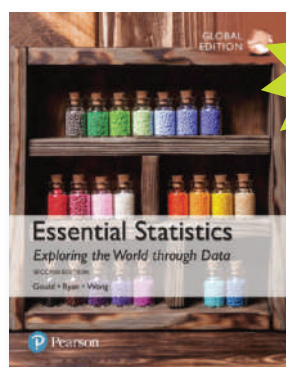
Statistics: Informed Decisions Using Data, Fifth Edition, gives students the tools to see a bigger picture and make informed choices. As a current introductory statistics instructor,

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.

Table of Contents

- Resources for Success
- Technology Resources
- Applications Index
- PART 1: GETTING THE INFORMATION YOU NEED
- 1. Data Collection
- PART 2: DESCRIPTIVE STATISTICS
- 2. Organizing and Summarizing Data
- 3. Numerically Summarizing Data
- 4. Describing the Relation between Two Variables
- PART 3: PROBABILITY AND PROBABILITY DISTRIBUTIONS
- 5. Probability
- 6. Discrete Probability Distributions
- 7. The Normal Probability Distribution
- PART 4: INFERENCE: FROM SAMPLES TO POPULATION
- 8. Sampling Distributions
- 9. Estimating the Value of a Parameter
- 10. Hypothesis Tests Regarding a Parameter
- 11. Inferences on Two Samples
- 12. Inference on Categorical Data
- 13. Comparing Three or More Means
- 14. Inference on the Least-Squares Regression Model and Multiple Regression
- 15. Nonparametric Statistics
- Answers

ISBN 9781292157115 | **PUB Date** 4/1/2018



MyLab
Statistics
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Essential Statistics Edition 2

Gould / Ryan / Wong

Binding Paperback | Page Count 584

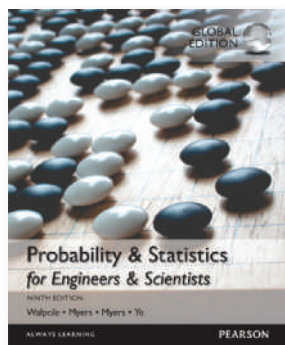
ISBN 9781292161228 | PUB Date 4/2/2018

For a one-semester course in statistic

Essential Statistics aims to teach students how to access and analyze data critically in today's data-driven world. Regardless of the students' math backgrounds, this text helps to learn how to think about data and how to reason using data. With a clear, unimposing writing style and carefully chosen pedagogy, this text makes data analysis accessible to all students.

Table of Contents

Preface	
Index of Applications	
1. Introduction to Data	
Case Study–Deadly Cell Phones?	
1.1 What Are Data?	
1.2 Classifying and Storing Data	
1.3 Organizing Categorical Data	
1.4 Collecting Data to Understand Causality	
Exploring Statistics–Collecting a Table of Different Kinds of Data	
2. Picturing Variation with Graphs	
Case Study–Student-to-Teacher Ratio at Colleges	
2.1 Visualizing Variation in Numerical Data	
2.2 Summarizing Important Features of a Numerical Distribution	
2.3 Visualizing Variation in Categorical Variables	
2.4 Summarizing Categorical Distributions	
2.5 Interpreting Graphs	
Exploring Statistics–Personal Distance	
3. Numerical Summaries of Center and Variation	
Case Study–Living in a Risky World	
3.1 Summaries for Symmetric Distributions	
3.2 What's Unusual? The Empirical Rule and z-Scores	
3.3 Summaries for Skewed Distributions	
3.4 Comparing Measures of Center	
3.5 Using Boxplots for Displaying Summaries	
Exploring Statistics–Does Reaction Distance Depend on Gender?	
4. Regression Analysis: Exploring Associations between Variables	
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4.2 Measuring Strength of Association with Correlation	
4.3 Modeling Linear Trends	
4.4 Evaluating the Linear Model	
Exploring Statistics–Guessing the Age of Famous People	
5. Modeling Variation with Probability	
Case Study–SIDS or Murder?	
5.1 What Is Randomness?	
5.2 Finding Theoretical Probabilities	
5.3 Associations in Categorical Variables	
5.4 Finding Empirical Probabilities	
Exploring Statistics–Let's Make a Deal: Stay or Switch?	
6. Modeling Random Events: The Normal and Binomial Models	
Case Study–You Sometimes Get More Than You Pay For	
6.1 Probability Distributions Are Models of Random Experiments	
6.2 The Normal Model	
6.3 The Binomial Model (optional)	
Exploring Statistics–ESP with Coin Flipping	
7. Survey Sampling and Inference	
Case Study–Spring Break Fever: Just What the Doctors Ordered?	
7.1 Learning about the World through Surveys	
7.2 Measuring the Quality of a Survey	
7.3 The Central Limit Theorem for Sample Proportions	
7.4 Estimating the Population Proportion with Confidence Intervals	
7.5 Comparing Two Population Proportions with Confidence	
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8. Hypothesis Testing for Population Proportions	
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8.2 Hypothesis Testing in Four Steps	
8.3 Hypothesis Tests in Detail	
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9. Inferring Population Means	
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9.4 Hypothesis Testing for Means	
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Appendix C Answers to Odd-Numbered Exercises	
Appendix D Credits	
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Probability & Statistics for Engineers & Scientists, MyStatLab Update Edition 9

Walpole / Myers / Myers / Ye

Binding Paperback | **Page Count** 816

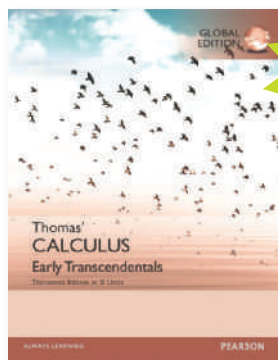
For junior/senior undergraduates taking probability and statistics as applied to engineering, science, or computer science

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.

Table of Contents

- Preface
- 1. Introduction to Statistics and Data Analysis
- 2. Probability
- 3. Random Variables and Probability Distributions
- 4. Mathematical Expectation
- 5. Some Discrete Probability Distributions
- 6. Some Continuous Probability Distributions
- 7. Functions of Random Variables (Optional)
- 8. Sampling Distributions and More Graphical Tools
- 9. One- and Two-Sample Estimation Problems
- 10. One- and Two-Sample Tests of Hypotheses
- 11. Simple Linear Regression and Correlation
- 12. Multiple Linear Regression and Certain Nonlinear Regression Models
- 13. One-Factor Experiments: General
- 14. Factorial Experiments (Two or More Factors)
- 15. 2k Factorial Experiments and Fractions
- 16. Nonparametric Statistics
- 17. Statistical Quality Control
- 18. Bayesian Statistics
- Bibliography
- A. Statistical Tables and Proofs
- B. Answers to Odd-Numbered Non-Review Exercises
- Index

ISBN 9781292161365 | **PUB Date** 4/1/2018



Thomas' Calculus Early Transcendentals SI Edition 13

Thomas / Weir / Hass

Binding Paperback | **Page Count** 1200

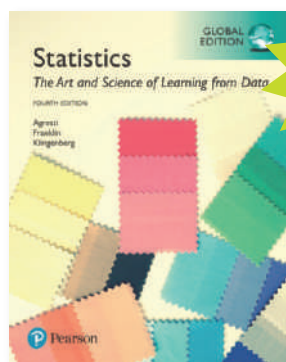
This text is designed for a three-semester or four-quarter calculus course (math, engineering, and science majors).

Calculus Early Transcendentals, 13th Edition, introduces students to the intrinsic beauty of calculus and the power of its applications. For more than half a century, this text has been revered for its clear and precise explanations, thoughtfully chosen examples, superior figures, and time-tested exercise sets. With this new edition, the exercises were refined, updated, and expanded.

Table of Contents

- 1 Functions
- 2 Limits and Continuity
- 3 Derivatives
- 4 Applications of Derivatives
- 5 Integrals
- 6 Applications of Definite Integrals
- 7 Integrals and Transcendental Functions
- 8 Techniques of Integration
- 9 First-Order Differential Equations
- 10 Infinite Sequences and Series
- 11 Parametric Equations and Polar Coordinates
- 12 Vectors and the Geometry of Space
- 13 Vector-Valued Functions and Motion in Space
- 14 Partial Derivatives
- 15 Multiple Integrals
- 16 Integrals and Vector Fields
- 17 Second-Order Differential Equations online
- Appendices
- A.1 Real Numbers and the Real Line
- A.2 Mathematical Induction
- A.3 Lines, Circles, and Parabolas
- A.4 Proofs of Limit Theorems
- A.5 Commonly Occurring Limits
- A.6 Theory of the Real Numbers
- A.7 Complex Numbers
- A.8 The Distributive Law for Vector Cross Products
- A.9 The Mixed Derivative Theorem and the Increment Theorem

ISBN 9781292163444 | **PUB Date** 4/1/2018



MyLab
Statistics
available

Statistics: The Art and Science of Learning from Data Edition 4

Agresti / Franklin / Klingenberg

Binding Paperback | **Page Count** 816

For courses in introductory statistics

Statistics: The Art and Science of Learning from Data, 4th Edition, takes a conceptual approach, helping students understand what statistics is about and learning the right questions to ask when analyzing data. This book takes the ideas that have turned statistics into a central science in modern life and makes them accessible, without compromising rigor. This book provides a wide variety of real-world data in the examples and exercises.

The text pays greater attention to the analysis of proportions than many other introductory statistics texts. Concepts are introduced first with categorical data, and then with quantitative data.

Table of Contents

PART ONE: GATHERING AND EXPLORING DATA

1. Statistics: The Art and Science of Learning from Data
2. Exploring Data with Graphs and Numerical Summaries
3. Association: Contingency, Correlation, and Regression
4. Gathering Data

PART TWO: PROBABILITY, PROBABILITY DISTRIBUTIONS, AND SAMPLING DISTRIBUTIONS

5. Probability in Our Daily Lives
6. Probability Distributions
7. Sampling Distributions

PART THREE: INFERENCE STATISTICS

8. Statistical Inference: Confidence Intervals
9. Statistical Inference: Significance Tests About Hypotheses
10. Comparing Two Groups

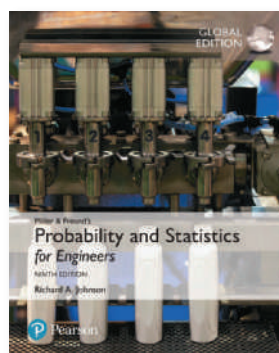
PART FOUR: ANALYZING ASSOCIATION AND EXTENDED STATISTICAL METHODS

11. Analyzing the Association Between Categorical Variables
12. Analyzing the Association Between Quantitative Variables: Regression Analysis
13. Multiple Regression
14. Comparing Groups: Analysis of Variance Methods
15. Nonparametric Statistics

Tables

Answers

ISBN 9781292164779 | **PUB Date** 4/1/2018



Miller & Freund's Probability and Statistics for Engineers Edition 9

Johnson / Miller / Freund

Binding Paperback | **Page Count** 552

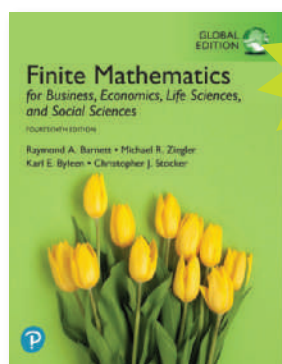
For an introductory, one or two semester, or sophomore-junior level course in Probability and Statistics or Applied Statistics for engineering, physical science, and mathematics students

Miller & Freund's Probability and Statistics for Engineers 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. The 9th Edition includes several new datasets and examples showing application of statistics in scientific investigations, familiarizing students with the latest methods, and readying them to become real-world engineers and scientists.

Table of Contents

1. Introduction
2. Organization and Description of Data
3. Probability
4. Probability Distributions
5. Probability Densities
6. Sampling Distributions
7. Inferences Concerning a Mean
8. Comparing Two Treatments
9. Inferences Concerning Variances
10. Inferences Concerning Proportions
11. Regression Analysis
12. Analysis of Variance
13. Factorial Experimentation
14. Nonparametric Tests
15. The Statistical Content of Quality Improvement Programs
16. Application to Reliability and Life Testing

ISBN 9781292176017 | **PUB Date** 4/1/2018



Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences Edition 14

Barnett / Ziegler / Byleen / Stocker

Binding Paperback | **Page Count** 672

For one-semester courses in Finite Mathematics.

Helps students “get the idea.” Finite Mathematics for Business, Economics, Life Sciences, and Social Sciences, 14th Edition offers more built-in guidance than any other text for this course – 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, updated data and applications, and a robust MyLab™ Math course.

Table of Contents

I. A LIBRARY OF ELEMENTARY FUNCTIONS

1. Linear Equations and Graphs

2. Functions and Graphs

II. FINITE MATHEMATICS

3. Mathematics of Finance

4. Systems of Linear Equations; Matrices

5. Linear Inequalities and Linear Programming

6. Linear Programming: The Simplex Method

7. Logic, Sets, and Counting

8. Probability

9. Markov Chains

10. Data Description and Probability Distributions

11. Games and Decisions (online at goo.gl/6VBjkQ)

Appendix A: Basic Algebra Review

Appendix B: Special Topics

Appendix C: Area under the Standard Normal Curve

ISBN 9781292264202 | **PUB Date** 11/15/2018



Introduction to Mathematical Statistics Edition 8

Binding Paperback | **Page Count** 768

For courses in mathematical statistics.

Comprehensive coverage of mathematical statistics – with a proven approach. Introduction to Mathematical Statistics by Hogg, McKean, and Craig enhances student comprehension and retention with numerous, illustrative examples and exercises.

Table of Contents

1. Probability and Distributions

2. Multivariate Distributions

3. Some Special Distributions

4. Some Elementary Statistical Inferences

5. Consistency and Limiting Distributions

6. Maximum Likelihood Methods

7. Sufficiency

8. Optimal Tests of Hypotheses

9. Inferences About Normal Linear Models

10. Nonparametric and Robust Statistics

11. Bayesian Statistics

Appendices:

A. Mathematical Comments

B. R Primer

C. Lists of Common Distributions

D. Table of Distributions

E. References

F. Answers to Selected Exercises

ISBN 9781292264769 | **PUB Date** 1/20/2018



A First Course in Probability Edition 10

Ross

Binding Paperback | **Page Count** 528

For upper-level to graduate courses in Probability or Probability and Statistics, for majors in mathematics, statistics, engineering, and the sciences.

Explores both the mathematics and the many potential applications of probability theory. 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.

Table of Contents

1. COMBINATORIAL ANALYSIS
2. AXIOMS OF PROBABILITY
3. CONDITIONAL PROBABILITY AND INDEPENDENCE
4. RANDOM VARIABLES
5. CONTINUOUS RANDOM VARIABLES
6. JOINTLY DISTRIBUTED RANDOM VARIABLES
7. PROPERTIES OF EXPECTATION
8. LIMIT THEOREMS 394
9. ADDITIONAL TOPICS IN PROBABILITY
10. SIMULATION

Answers to Selected Problems

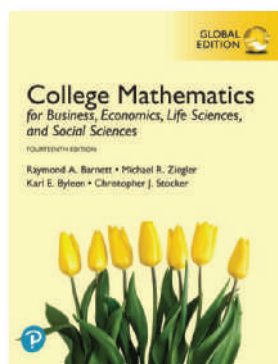
Solutions to Self-Test Problems and Exercises

Index

Common Discrete Distributions

Common Continuous Distributions

ISBN 9781292269207 | **PUB Date** 8/9/2018



College Mathematics for Business, Economics, Life Sciences, and Social Sciences Edition 14

Barnett / Ziegler / Byleen / Stocker

Binding Paperback | **Page Count** 1008

For two-semester courses in Finite Math & Applied Calculus or Mathematics for Business

College Mathematics for Business, Economics, Life Sciences, and Social Sciences, 14th Edition offers more built-in guidance than any other text for this course – 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. Its emphasis on helping students “get the idea” is enhanced in the new edition by a design refresh, updated data and applications, and a robust MyLab™ Math course.

The text is organized into three parts: A Library of Elementary Functions (Chapters 1-2), Finite Mathematics (Chapters 3-8, 15), and Calculus (Chapters 9-14).

Table of Contents

- I. A LIBRARY OF ELEMENTARY FUNCTIONS
 1. Linear Equations and Graphs
 2. Functions and Graphs
- II. FINITE MATHEMATICS
 3. Mathematics of Finance
 4. Systems of Linear Equations; Matrices
 5. Linear Inequalities and Linear Programming
 6. Linear Programming: The Simplex Method
 7. Logic, Sets, and Counting
 8. Probability
- III. CALCULUS
 9. Limits and the Derivative
 10. Additional Derivative Topics
 11. Graphing and Optimization
 12. Integration
 13. Additional Integration Topics
 14. Multivariable Calculus
 15. Markov Chains (online at goo.gl/8SZkyn)
- Appendix A: Basic Algebra Review
- Appendix B: Special Topics
- Appendix C: Tables
 - Table I Integration Formulas
 - Table II Area under the Standard Normal Curve

ISBN 9781292270494 | **PUB Date** 5/8/2018