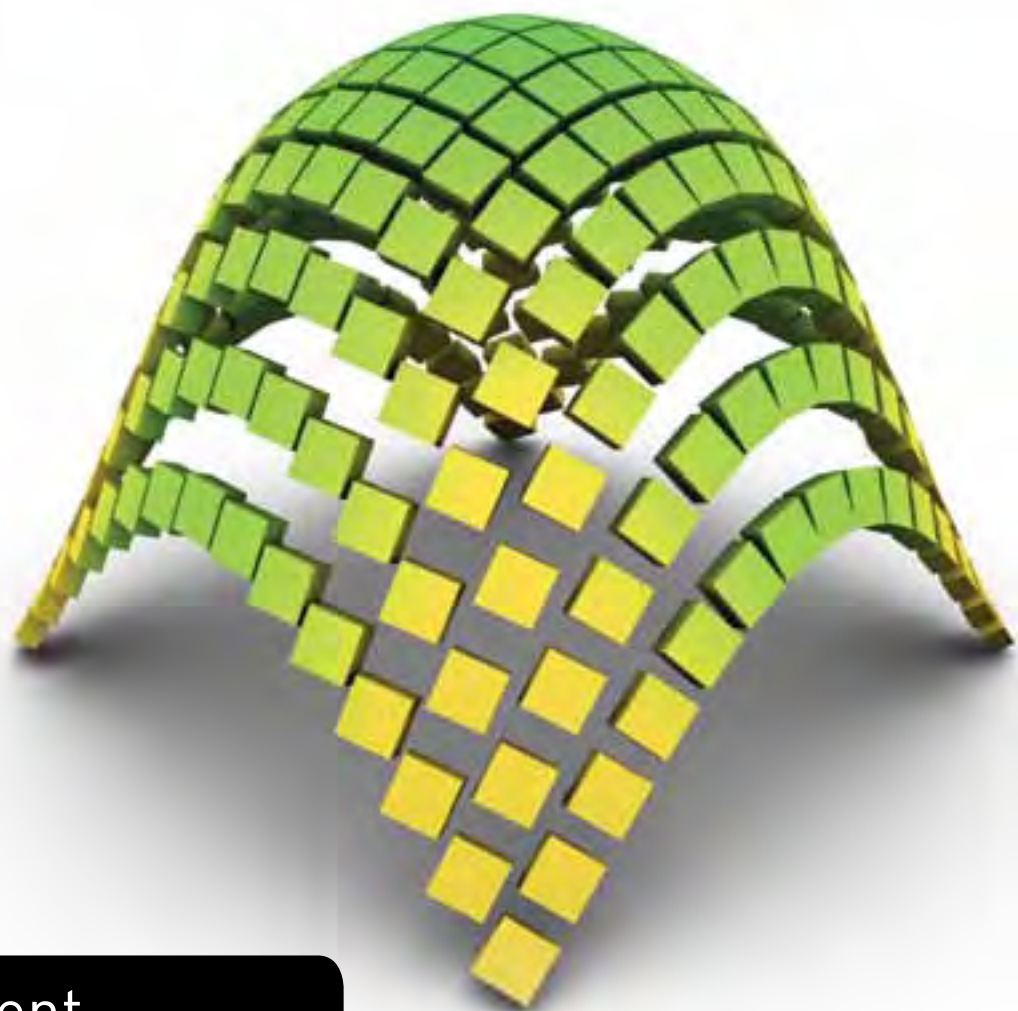


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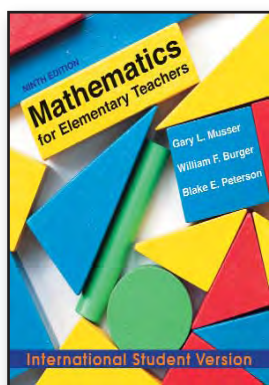
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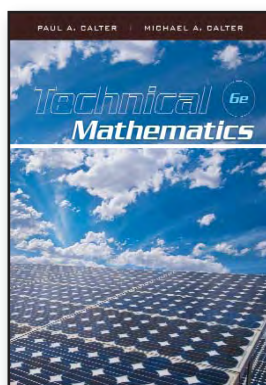
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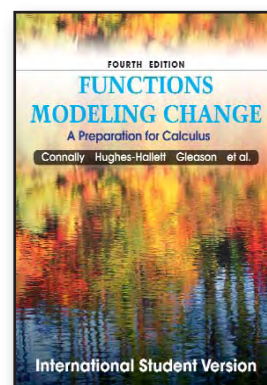
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PAUL A. CALTER, Vermont Technical College, MICHAEL A. CALTER, University of Rochester.

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4th Edition

ERIC CONNALLY et al, Wellesley College.

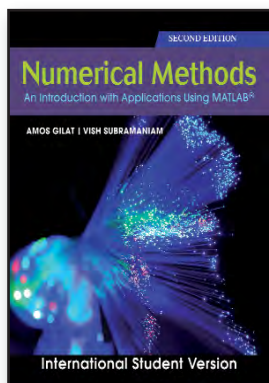
Functions Modeling Change, is designed to accomplish the main goals of the Precalculus course: to build a solid mathematical foundation and prepare students for Calculus. The authors achieve this by focusing on a small number of key topics, thereby emphasizing depth of understanding rather than breadth of coverage. Presenting each function symbolically, numerically, graphically and verbally (the Rule of Four).

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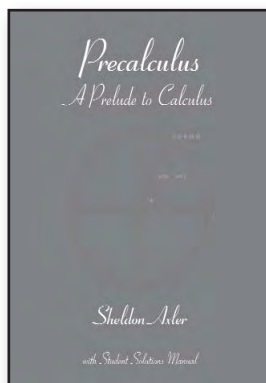
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A Prelude to Calculus

SHELDON AXLER

Build the foundation to learn calculus with this effective introduction.

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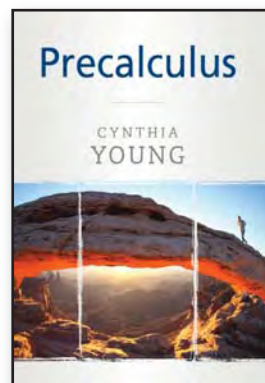
Features:

- Each exercise has a unique correct answer that is a mathematical object such as a number or a function, while the solutions to problems consist of explanations or examples. The solutions to the odd-numbered exercises appear in an index.
- The solutions manual encourages students to read the main text and students will save money by not having to purchase a separate solutions manual.

Contents: 0 The Real Numbers. 1 Functions and Their Graphs. 2 Linear, Quadratic, Polynomial, and Rational Functions. 3 Exponents and Logarithms. 4 Area, e , and the Natural Logarithm. 5 Trigonometric Functions. 6 Applications of Trigonometry. 7 Sequences, Series, and Limits. Index of Definitions. Index of Boxed Items.

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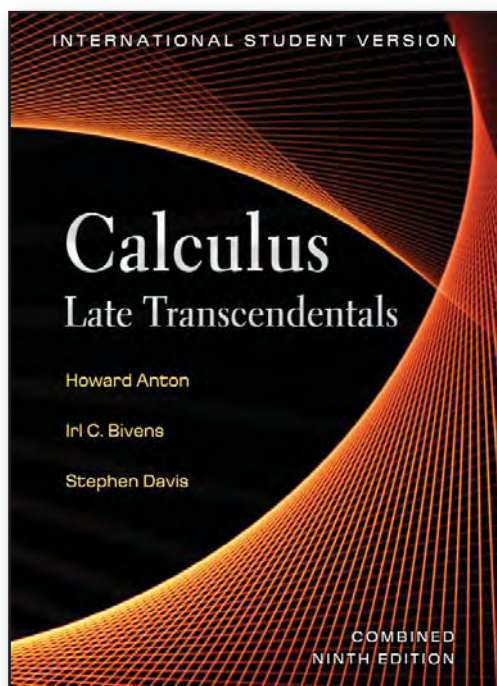
Features:

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Combined 9th Edition

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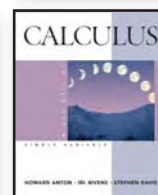
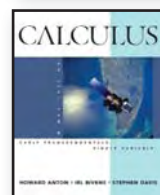
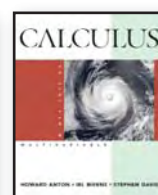
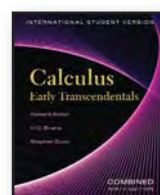


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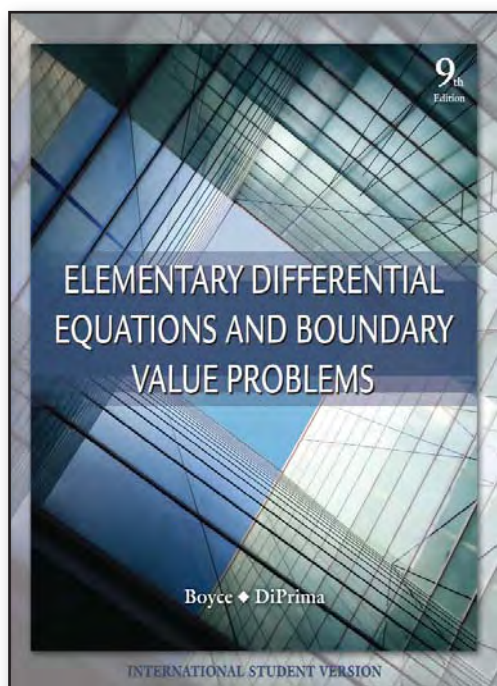
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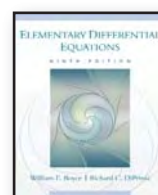


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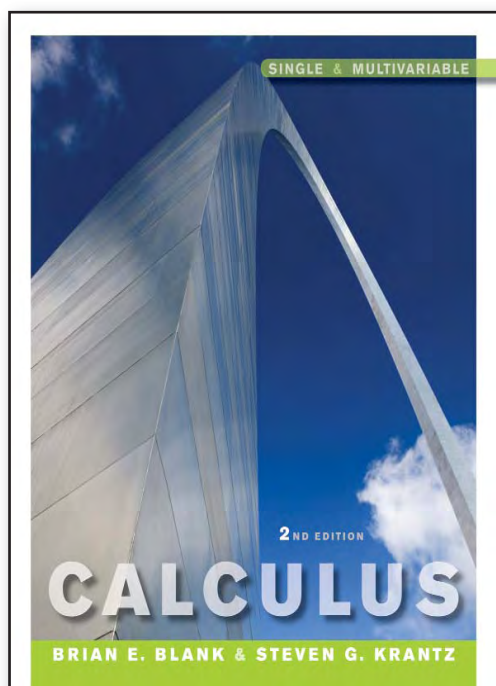
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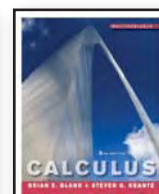
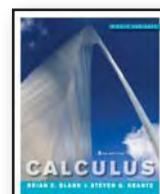


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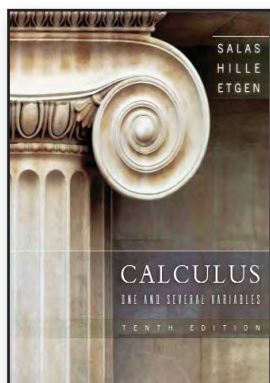
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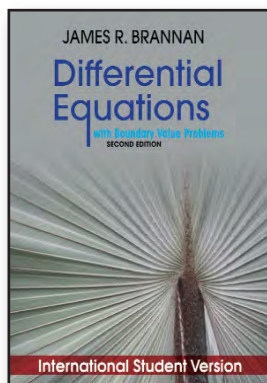
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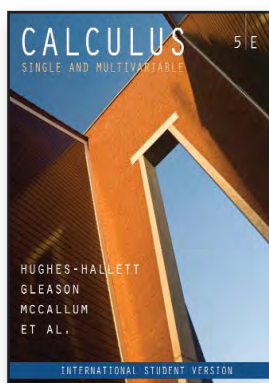
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- Highlights the applications' connection with real-world concerns.
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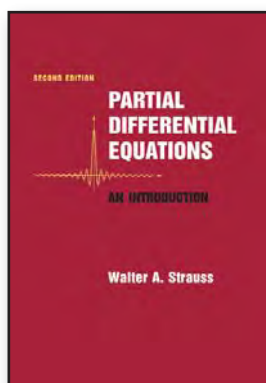
Contents: 1 A Library of Functions. 2 Key Concept: The Derivative. 3 Short-Cuts to Differentiation. 4 Using the Derivative. 5 Key Concept: The Definite Integral. 6 Constructing Antiderivatives. 7 Integration. 8 Using the Definite Integral. 9 Sequences and Series. 10 Approximating Functions Using Series. 11 Differential Equations. Appendix. Answers to Odd-Numbered Problems. Index.

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Partial Differential Equations

An Introduction

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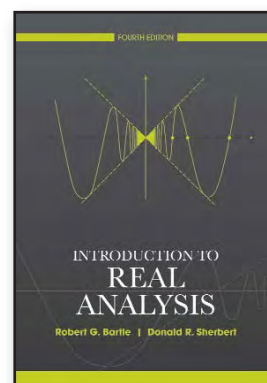
WALTER A. STRAUSS, Brown University.

Our understanding of the fundamental processes of the natural world is based to a large extent on partial differential equations (PDEs).

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NEW EDITION!

Introduction to Real Analysis

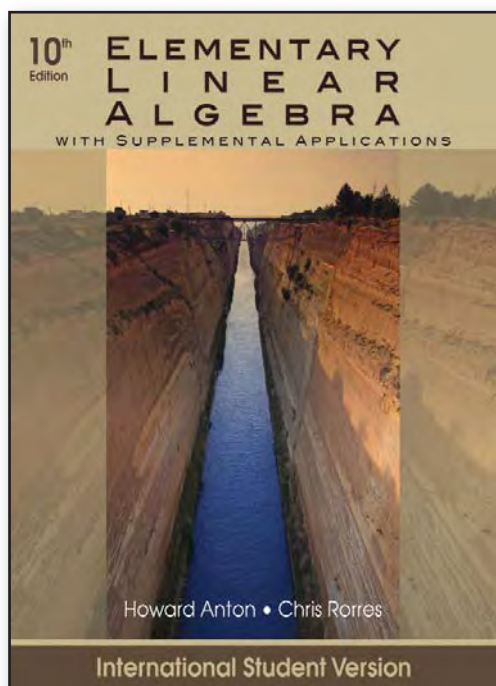
4th Edition

ROBERT G. BARTLE, DONALD R. SHERBERT, both of University of Illinois.

This text provides the fundamental concepts and techniques of real analysis for students. It helps develop the ability to think deductively, analyze mathematical situations, and extend ideas to a new context. Like the first three editions, this edition maintains the same spirit and user-friendly approach with additional examples and expansion on Logical Operations and Set Theory. There is also content revision in the following areas: Introducing point-set topology before discussing continuity, including a more thorough discussion of limsup and liminf, covering series directly following sequences, adding coverage of Lebesgue Integral and the construction of the reals, and drawing student attention to possible applications wherever possible.

Contents: 1 Preliminaries. 2 The Real Numbers 3 Sequences and Series. 4 Limits. 5 Continuous Functions. 6 Differentiation. 7 The Riemann Integral. 8 Sequences of Functions. 9 Infinite Series 10 The Generalized Riemann Integral. 11 A Glimpse into Topology. Appendix A: Logic and Proofs. Appendix B: Finite and Countable Sets. Appendix C: The Riemann and Lebesgue Criteria. Appendix D: Approximate Integration. Appendix E: Two Examples. References. Photo Credits. Hints for Selected Exercises. Index.

9780471433316 • 416pp • December 2010
Hbk • Adoption price available on request



NEW EDITION!

Elementary Linear Algebra with Supplemental Applications

10th Edition

HOWARD ANTON
CHRIS RORRES, both of Drexel University.

This book gives an elementary treatment of linear algebra that is suitable for first course undergraduate students. The aim is to present the fundamentals of linear algebra in the clearest possible way; pedagogy is the main consideration. Calculus is not a prerequisite, but there are clearly labeled exercises and examples for students who have studied calculus. Technology is not required, but for those who would like to use MATLAB, Maple, or Mathematica, or calculators with linear algebra capabilities, exercises are included at the ends of chapters that allow for further exploration using those tools.

A concluding chapter covers twenty applications of linear algebra drawn from various disciplines. The applications are independent and each includes a list of mathematical prerequisites.

Features:

- By continually revisiting the web of relationships among systems of equations, matrices, determinants, vectors, linear transformations, and eigenvalues, Anton helps students to perceive linear algebra as a cohesive subject rather than as a collection of isolated definitions and techniques.
- Students sharpen their mathematical reasoning skills and understanding of proofs by filling in justifications for proof steps in some exercises.
- Geometric aspects of various topics are emphasized, to support visual learners, and to provide an additional layer of understanding for all students.
- Mathematical precision appropriate for mathematics majors is maintained in a book whose explanations and pedagogy meet the needs of engineering, science, and business/economics students.

New to Edition:

- More basic applications are covered throughout.
- Section-end Concept Review helps students to review and prepare for exams.
- Skills listed at the end of every section are learning objectives that students and professors can use to measure progress.
- True/false exercises quickly assess conceptual understanding and logical reasoning.

Contents: 1 Systems of Linear Equations and Matrices. 2 Determinants. 3 Euclidean Vector Spaces. 4 General Vector Spaces. 5 Eigenvalues and Eigenvectors. 6 Inner Product Spaces. 7 Diagonalization and Quadratic Forms. 8 Linear Transformations. 9 Numerical Methods. 10 Applications of Linear Algebra.

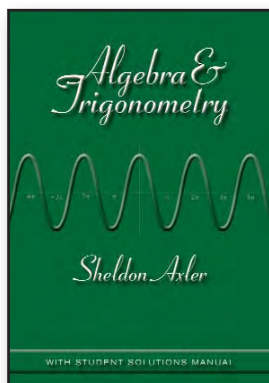
9780470561577 • 848pp • August 2010 • Pbk • £47.99/€57.60



WileyPLUS is a web-based application that assists instructors in preparing for classes and lectures and automates the process of assigning and grading homework. The power of WileyPLUS is that each problem is linked to the relevant section of the interactive book. It allows students to complete their homework online and receive instant feedback on their work.

WileyPLUS for *Elementary Linear Algebra* includes:

- A complete online version of the text.
- Instructor's and Student Solutions Manual.
- Technology Exercises.
- Maple, MatLab, Mathematica data files on Companion Site.
- Supplementary Modules.
- A "Link-to-text" feature that allows students to access specific portions of their online text for immediate, contextual help as they are working.
- 200 NEW end-of-section algorithmic homework questions.
- 670 Correlated end-of-section and end-of-chapter algorithmic homework questions from the 9th edition.
- Proficiency Exams (1 per topic).
- Printed test banks.
- PowerPoint Presentations.
- This title contains *WileyPLUS/Quickstart* assignments and presentations created by a subject expert.



9780470470817 • 784pp
February 2011 • Pbk
Adoption price available
on request

NEW!

Algebra and Trigonometry

SHELDON AXLER, San Francisco State University.

This book is written for the two semester course. The text provides students with the skill and understanding needed for their coursework and for participating as an educated citizen in a complex society. The text focuses on depth, not breadth of topics by exploring necessary topics in greater detail.

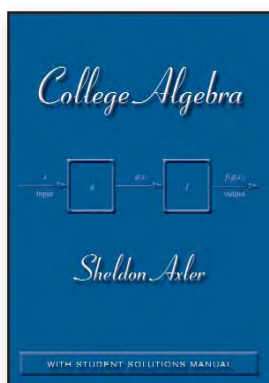
Readers will benefit from the straightforward definitions and plentiful examples of complex concepts. The Student Solutions Manual is integrated at the end of every section. The proximity of the solutions encourages students to go back and read the main text as they are working through the problems and exercises. The inclusion of the manual also saves students money.

Contents: About the Author. Preface to the Instructor. Acknowledgments. Preface to the Student. 1 The Real Numbers. 2 Combining Algebra and Geometry. 3 Functions and Their Graphs. 4 Polynomial and Rational Functions. 5 Exponents and Logarithms. 6 e and the Natural Logarithm. 7 Trigonometric Functions. 8 Trigonometric Algebra and Geometry. 9 Applications of Trigonometry. 10 Systems of Equations and Inequalities. 11 Sequences, Series, and Limits.



WileyPLUS is a web-based application that assists instructors in preparing for classes and lectures and automates the process of assigning and grading homework. The power of WileyPLUS is that each problem is linked to the relevant section of the interactive book. It allows students to complete their homework online and receive instant feedback on their work.

WileyPLUS for *Algebra and Trigonometry* includes: Computerized Test Bank, Instructors Solutions Manual, PowerPoint Slides, Printed Test Bank.



9780470470770 • 528pp
January 2011 • Pbk
Adoption price available
on request

NEW!

College Algebra

SHELDON AXLER, San Francisco State University.

This book focuses on depth, not breadth of topics by exploring necessary topics in greater detail. Students will benefit from the straightforward definitions and plentiful examples of complex concepts. The Student Solutions Manual is integrated at the end of every section. The proximity of the solutions encourages students to go back and read the main text as they are working through the problems and exercises. The inclusion of the manual also saves students money.

Features:

- Topics have been carefully selected to get at the heart of algebraic weakness by narrowing down to key sets of skills which are regularly revisited from varied perspectives.
- The difference between an exercise and a problem is that each exercise has a unique correct answer that is a mathematical object such as a number or a function, while the solutions to problems consist of explanations or examples.
- The writing style and layout induce students to read and understand the material.
- A symbol appears next to problems that require a calculator.

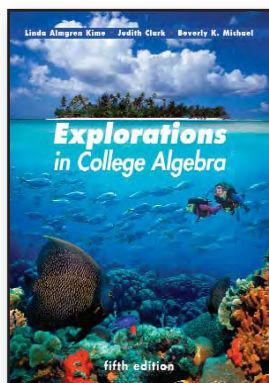
Contents: 1 The Real Numbers. 2 Combining Algebra and Geometry. 3 Functions and Their Graphs. 4 Polynomial and Rational Functions. 5 Exponents and Logarithms. 6 e and the Natural Logarithm. 7 Systems of Equations and Inequalities. 8 Sequences, Series, and Limits.



WileyPLUS is a web-based application that assists instructors in preparing for classes and lectures and automates the process of assigning and grading homework. The power of WileyPLUS is that each problem is linked to the relevant section of the interactive book. It allows students to complete their homework online and receive instant feedback on their work.

WileyPLUS for *College Algebra* includes: Computerized Test Bank, Instructors Solutions Manual, PowerPoint Slides, Printed Test Bank.





NEW EDITION!

Explorations in College Algebra

5th Edition

LINDA ALMGREN KIME, JUDY CLARK, both of University of Massachusetts, BEVERLY K. MICHAEL, University of Pittsburgh.

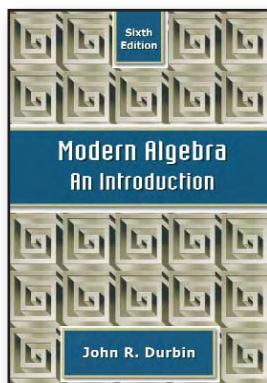
The fifth edition and its accompanying ancillaries are designed to make algebra interesting and relevant to the student. The text adopts a problem-solving approach that motivates students to grasp abstract ideas by solving real-world problems. The problems lie on a continuum from basic algebraic drills to open-ended, non-routine questions. The focus is shifted from learning a set of discrete mathematical rules to exploring how algebra is used in the social, physical, and life sciences. The goal is to prepare students for future advanced mathematics or other quantitatively based courses, while encouraging them to appreciate and use the power of algebra in answering questions about the world around us.

Features:

- “Mini Exploration” problems provide students with ideas for going deeper into topics or previewing new concepts. They can be found in every section.
- The authors added a transformation to each chapter that covers functions.
- The two Extended Explorations have been integrated into the text as sections in relevant chapters.

Contents: 1 An Introduction to Data and Functions. 2 Rates of Change and Linear Functions. 3 When Lines Meet: Linear Systems. 4 The Laws of Exponents and Logarithms: Measuring the Universe. 5 Growth and Decay: An Introduction to Exponential Functions. 6 Logarithmic Links: Logarithmic and Exponential Functions. 7 Power Functions. 8 Quadratics and the Mathematics of Motion. 9 New Functions from Old. Solutions. Index.

9780470466445 • 768pp • December 2010
Pbk • Adoption price available on request



Modern Algebra: An Introduction

6th Edition

JOHN R. DURBIN, The University of Texas.

Durbin provides an accessible introduction to algebra with the help of numerous examples and exercises.

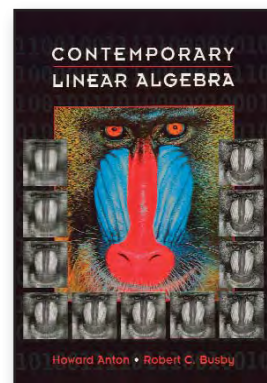
The new sixth edition of *Modern Algebra* has two main goals: to introduce the most important kinds of algebraic structures, and to help students improve their ability to understand and work with abstract ideas.

Features:

- Durbin takes great care in helping students to understand and work with abstract ideas and proofs in a first course in modern algebra.
- Each problem set is organized by level of difficulty. The early problems in each set are grouped in pairs, with solutions to odd-numbered problems in the solutions appendix.
- The material is arranged so that most of the sections can be covered in one lecture.

Contents: 1 Introduction. 2 Introduction to Groups. 3 Equivalence. Congruence. Divisibility. 4 Groups. 5 Group Homomorphisms. 6 Introduction to Rings. 7 The Familiar Number Systems. 8 Polynomials. 9 Quotient Rings. 10 Galois Theory: Overview. 11 Galois Theory. 12 Geometric Constructions. 13 Solvable and Alternating Groups. 14 Applications of Permutation Groups. 15 Symmetry. 16 Lattices and Boolean Algebras. Appendix A: Sets. B: Proofs. C: Mathematical Induction. D: Linear Algebra. E: Solutions to Selected Problems.

9780470384435 • 336pp • 2009 • Hbk
Adoption price available on request



Contemporary Linear Algebra

HOWARD ANTON

ROBERT C. BUSBY, both of Drexel University.

This book focuses on the aspects of linear algebra that are most likely to have practical value to the student while not compromising the intrinsic mathematical form of the subject.

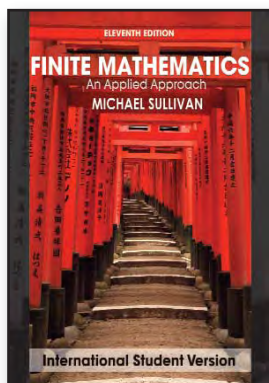
Features:

- The authors believe that a working knowledge of vectors in \mathbb{R}^n and some experience with viewing functions as vectors is the right focus for this course.
- All major concepts are introduced early and revisited in more depth later on. This spiral approach to concept development ensures that all key topics can be covered in the course.
- The text provides students with a strong geometric foundation upon which to build.
- *Looking Ahead* features provide students with insight into the future role of the material currently being studied.
- A wide range of applications throughout gives students a sense of the broad applicability of linear algebra.

Contents: 1 Vectors. 2 Systems of Linear Equations. 3 Matrices and Matrix Algebra. 4 Determinants. 5 Matrix Models. 6 Linear Transformations. 7 Dimension and Structure. 8 Diagonalizations. 9 General Vector Spaces. Appendices: How to Read Theorems. Complex Numbers.

Supplements: Instructor's Solutions Manual; eGrade; TI-Calculator Technology Resource Manual; Maple Technology Resource Manual; Mathematica Technology Resource Manual; MatLab Technology Resource Manual; Student Solutions Manual.

9780471163626 • 656pp • 2002 • Hbk
£47.99/€57.60



9780470646250 • 864pp
March 2011 • Pbk • £49.99/€60.00

NEW EDITION!

Finite Mathematics: An Applied Approach

11th Edition

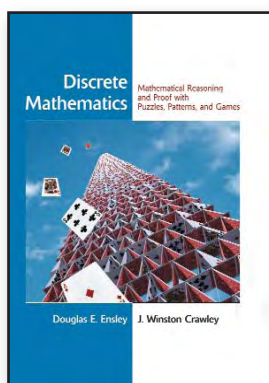
MICHAEL SULLIVAN, Chicago State University.

Now in its Eleventh Edition, this text once again lives up to its reputation as a clearly written, comprehensive finite mathematics book.

The new edition builds upon a solid foundation by integrating new features and techniques that further enhance student interest and involvement. All existing problems have been updated to provide relevance and timeliness. This new edition contains the same elements such as Step-by-Step Examples, Exercise Sets, and Learning Objectives in every chapter. In an engaging and accessible style, this text demonstrates how mathematics applies to various fields of study. The text is packed with real data and real-life applications to business, economics, social and life sciences.

Contents: 1 Linear Equations. 2 Systems of Linear Equations. 3 Matrices. 4 Linear Programming with Two Variables. 5 Linear Programming: Simplex Method. 6 Finance. 7 Probability. 8 Bayes' Theorem. The Binomial Probability Model. 9 Statistics. 10 Markov Chains. Games. 11 Logic. Appendix A: Review. Appendix B: Using LINDO to Solve Linear Programming Problems. Appendix C: Graphing Utilities.

Resources: WileyPLUS is a web-based application that assists instructors in preparing for classes and lectures and automates the process of assigning and grading homework. The power of WileyPLUS is that each problem is linked to the relevant section of the interactive book. It allows students to complete their homework online and receive instant feedback on their work.



9780471476023 • 704pp • 2005
Hbk • Adoption price available
on request

Discrete Mathematics

Mathematical Reasoning and Proof, with Puzzles, Patterns and Games

DOUG ENSLEY, J. WINSTON CRAWLEY, both of Shippensburg University.

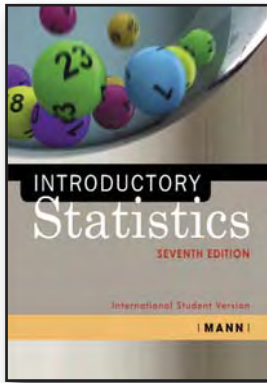
These active and well-known authors have come together to create a fresh, innovative, and timely approach to Discrete Math. One innovation uses several major threads to help weave core topics into a cohesive whole. Throughout the book the application of mathematical reasoning is emphasized to solve problems while the authors guide the student in thinking about, reading, and writing proofs in a wide variety of contexts.

Features:

- Online applications help improve students' mathematical reasoning with intriguing, interactive flash-based applications which illustrate key mathematical concepts and help develop students' ability to reason mathematically, solve problems and work with proofs.
- Every section contains a number of practice problems and at the conclusion of each chapter a section review outlines the major terms, concepts and skills covered in that chapter.
- Over 1,000 exercises ranging from routine reinforcement to conceptual challenges.

Contents: 1 Puzzles, Patterns and Mathematical Language. 2 A Primer of Mathematical Writing. 3 Sets and Boolean Algebra. 4 Functions and Relations. 5 Combinatorics. 6 Probability. 7 Graphs and Trees. Appendices A: Rules of the Game. Appendices B: Matrices and Their Operations. Selected Answers. References for further reading.

Supplements: Instructor's Solutions Manual, Student Solution Manual.



WILEY PLUS

Introductory Statistics

7th Edition

PREM S. MANN, Eastern Connecticut State University.

When it comes to learning statistics, Mann delivers the information that readers need.

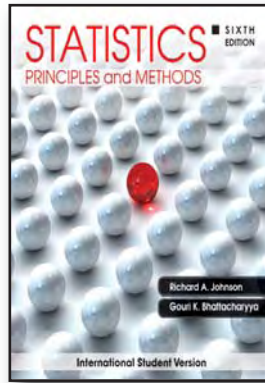
The realistic content of this book's examples and exercises, the clarity and brevity of its presentation, and the soundness of its pedagogical approach have received the highest remarks from both students and instructors.

Features:

- The text contains a wealth of examples, given in a format showing a problem and its solution.
- Technology sections can be found at the end of each chapter with separate subsections covering the use of Excel, MINITAB, and the TI-84 have been updated.
- Case studies provide additional illustrations of the applications of statistics in research and statistical analysis.

Contents: 1 Introduction. 2 Organizing and Graphing. 3 Numerical Descriptive Measures. 4 Probability. 5 Discrete Random Variable & Their Probability Distributions. 6 Continuous Random Variables and the Normal Distribution. 7 Sampling Distributions. 8 Estimation of the Mean and Proportion. 9 Hypothesis Tests About the Mean and Proportion. 10 Estimation & Hypothesis Testing: Two Populations. 11 Chi Square Tests. 12 Analysis of Variance. 13 Simple Linear Regression. 14 Multiple Regression-Website. 15 Nonparametric Methods – Website. Appendix A: Sample Surveys, Sampling Techniques, and Design Experiments. Appendix B: Explanation of Data Sets. Appendix C: Statistical Tables.

9780470505830 • 736pp • April 2010 • Pbk £48.99/€58.80



WILEY PLUS

Statistics – Principles and Methods

6th Edition

RICHARD A. JOHNSON, GOURI K. BHATTACHARYYA, both of University of Wisconsin.

A comprehensive, accurate introduction to statistics.

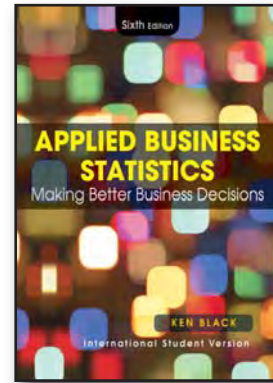
This new edition unique in its clarity of exposition while maintaining the mathematical correctness of its explanations. This highly regarded text provides a wide range of contemporary applications in its examples and exercises to ensure that all students will find something they can relate to and which will motivate them.

Features:

- At the end of each chapter, all of its key ideas and formulas are summarized.
- A rich collection of examples and exercises are included, drawn from a large variety of real-life settings.
- At the end of most chapters are step-by-step directions for using MINITAB, EXCEL, and the TI-84 calculator.

Contents: 1 Introduction. 2 Organization and Description of Data. 3 Descriptive Study of Bivariate Data. 4 Probability. 5 Probability Distributions. 6 The Normal Distribution. 7 Variation in Repeated Samples-Sampling Distribution. 8 Drawing Inferences From Large Samples. 9 Small-Sample Inferences for Normal Populations. 10 Comparing Two Treatments. 11 Regression Analysis I. 12 Regression Analysis- II. 13 Analysis of Categorical Data. 14 Analysis of Variance (ANOVA). Appendix A1: Summation Notation. Appendix A2: Rules for Counting. Appendix A3: Expectation and Standard Deviation Properties. Appendix A4: The Expected Value and Standard Deviation of X. Appendix B: Tables.

9780470505779 • 712pp • March 2010 • Pbk £47.99/€57.60



WILEY PLUS

Applied Business Statistics

Making Better Business Decisions

6th Edition

KEN BLACK, University of Houston.

Widely recognized for its effective pedagogy and well-liked for its user-friendly, flowing style.

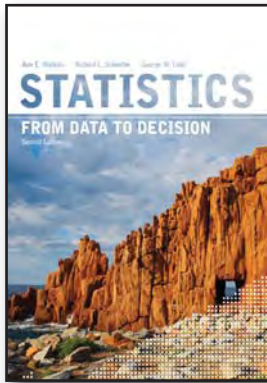
Guiding students through business statistics clearly and comprehensively, this book uses a formulaic integration of problem solving via conceptual and practice questions. Well-written and energetic, it enables lecturers to facilitate a highly successful, mathematically appropriate experience for all business statistics students.

Contents:

Part I – Introduction. 1 Introduction to Statistics. 2 Charts and Graphs. 3 Descriptive Statistics. 4 Probability. Part II – The Distributions. 5 Discrete Distributions. 6 Continuous Distributions. 7 Sampling and Sampling Distributions. Part III – Making Inferences about Population Parameters. 8 Statistical Inference: Estimation for Single Populations. 9 Statistical Inference: Hypothesis Testing for Single Populations. 10 Statistical Inferences about Two Populations. 11 Analysis of Variance and Design of Experiments. 12 Simple Regression Analysis and Correlation. 13 Multiple Regression Analysis. Part IV – Regression Analysis and Forecasting. 14 Building Multiple Regression Models. 15 Time-Series Forecasting and Index Numbers. 16 Analysis of Categorical Data. 17 Nonparametric Statistics. 18 Statistical Quality Control.

Resources: WileyPLUS includes the full e-book, a dozen Video Tutorials, a Tree Taxonomy Diagram, improved visuals, problems, exercises, and data outputs based on a new scientific method-based, and much more.

9780470505885 • 872pp • March 2010 • Pbk £49.99/€60.00



Statistics

From Data to Decision

2nd Edition

ANN E. WATKINS, California State University-Northridge, RICHARD L. SCHEAFFER, University of Florida, GEORGE W. COBB, Mount Holyoke College.

Features:

- More examples and exercises show how statistics are used for research.
- The text features many graphical displays and computer printouts.
- An activity introduces each major topic, allowing students to experience the major concepts of statistical thinking before going on to confirm them through further analysis and practice with data.
- Realistic models are provided for design and analysis of experiments and surveys at an intro level.

Contents: 1 Statistical Reasoning: Investigating a Claim of Discrimination. 2 Exploring Distributions of Data. 3 Exploring the Relationship between Two Quantitative Variables. 4 Sample Surveys and Experiments. 5 Probability Models. 6 Probability Distributions. 7 Sampling Distributions. 8 Inference for a Proportion. 9 Comparing Two Populations: Inference for the Difference of Two Proportions. 10 Inference for a Mean. 11 Comparing Two Populations: Inference for the Difference of Two Means. 12 Chi-Square Tests. 13 Inference for Regression. 14 Analysis of Variance. 15 Multiple Regression. 16 Westvaco Revisited: Modern Distribution-Free Techniques Statistical Tables. Table A: Standard Normal Probabilities. Table B: t-Distribution Critical Values. Table C: χ^2 Critical Values. Table D: F-Distribution Critical Values. Table E: Random Digits. Glossary. Brief Answers to Practice Problems and Selected Exercises.

9780470458518 • 829pp • April 2010 • Hbk
£47.99/€57.60



Statistics

An Introduction using R

MICHAEL J. CRAWLEY, Imperial College of Science, Technology and Medicine.

"...I know of no better book of its kind..."

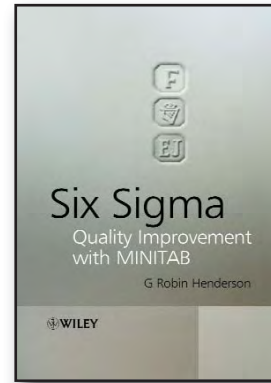
JOURNAL OF THE ROYAL STATISTICAL SOCIETY,
Vol 169 (1), January 2006

Features:

- Features step-by-step instructions that assume no mathematics, statistics or programming background, helping the non-statistician to fully understand the methodology.
- Uses a series of realistic examples, developing step-wise from the simplest cases, with the emphasis on checking the assumptions (e.g. constancy of variance and normality of errors) and the adequacy of the model chosen to fit the data.
- The emphasis throughout is on estimation of effect sizes and confidence intervals, rather than on hypothesis testing.

Contents: 1 Introduction to Statistics. 2 Descriptive Charts and Graphs. 3 Descriptive Statistics. 4 Probability. 5 Discrete Distributions. 6 Continuous Distributions. 7 Sampling and Sampling Distributions. 8 Statistical Inference. 9 Estimation for Single Populations. 10 Statistical Inference. 11 Hypothesis Testing for Single Populations. 12 Statistical Inferences about Two Populations. 13 Analysis of Variance and Design of Experiments. 14 Analysis of Categorical Data. 15 Simple Regression Analysis. 16 Multiple Regression Analysis. 17 Building Multiple Regression Models. 18 Time Series Forecasting and Index Numbers. 19 Nonparametric Statistics. 20 Statistical Quality Control. Decision Analysis. Appendix A: Tables. Appendix B: Answers to Selected Odd-Numbered Quantitative Problems. Appendix C: References. Glossary. Index.

9780470022986 • 342pp • 2005 • Pbk
£29.50/€35.40



Six Sigma

Quality Improvement with Minitab

G. ROBIN HENDERSON, Napier University.

This is the first book to focus on the use of Minitab as a statistical methods for the monitoring and improvement of quality.

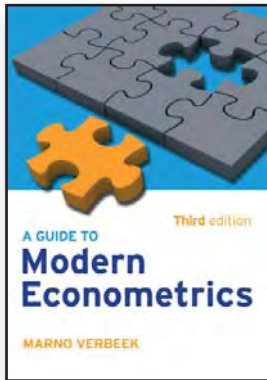
It explains some of the most important methods and their implementation via the statistical software package Minitab (Release 14). The book integrates the development of the topics with the application of Minitab, either to apply the statistical tools or as an aid to gaining better understanding of the tools.

Features:

- Use of random data generation in Minitab to aid understanding of important statistical concepts.
- Provision of informative follow-up exercises on each topic.
- Complementary to text to books such as *Douglas Montgomery's Introduction to Statistical Quality Control*.

Contents: Foreword. Preface. About the Author; Introduction. 1 Introduction to MINITAB, Data Display, Summary and Manipulation. 2 Exploratory Data Analysis, Display and Summary of Multivariate Data. 3 Statistical Models. 4 Control Charts. 5 Process Capability Analysis. 6 Process Experimentation with a Single Factor. 7 Process Experimentation with two or more Factors. 8 Evaluation of Measurement Processes. 9 Regression and Model Building. 10 More about MINITAB. Appendices. References. Index.

9780470011560 • 452pp • 2006 • Pbk
£34.95/€42.00



A Guide to Modern Econometrics

3rd Edition

MARNO VERBEEK, Erasmus University.

A Guide to Modern Econometrics has become established as a successful textbook. With its focus on exploring alternative techniques, combined with a practical emphasis, it serves as a guide to alternative techniques with the emphasis on the intuition behind the approaches and their practical relevance. In this new edition, Marno Verbeek builds on the strengths of the second edition and brings the text completely up-to-date.

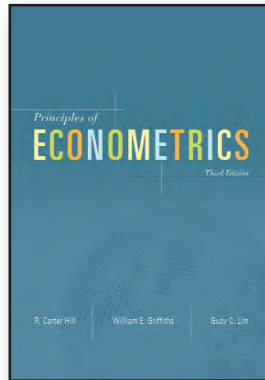
Features:

- Up-to-date references on line with current literature on the subjects.
- New empirical illustrations including panel data, discrete choice models and the linear model with heteroskedasticity.
- New supplementary material including PowerPoint Slides for lecturers, data sets and solutions to selected exercises in each chapter.

Contents: Preface. 1 Introduction. 2 An Introduction to Linear Regression. 3 Interpreting and Comparing Regression Models. 4 Heteroskedasticity and Autocorrelation. 5 Endogeneity, Instrumental Variables and GMM. 6 Maximum Likelihood Estimation and Specification Tests. 7 Models with Limited Dependent Variables. 8 Univariate Time Series Models. 9 Multivariate Time Series Models. 10 Models based on Panel Data. 11 Vectors and Matrices. 12 Statistical and Distribution Theory.

Resources: Instructor's Resources including Powerpoint Presentations for each chapter, Data Sets of almost all empirical illustrations, Additional Data Sets for empirical exercises and solutions to selected exercises for each chapter.

9780470517697 • 488pp • 2008 • Pbk
£36.99/€44.40



Principles of Econometrics

3rd Edition

R. CARTER HILL, Louisiana State University, WILLIAM GRIFFITHS, GUAY C. LIM, both of University of Melbourne.

Designed specifically for undergraduates, *Principles of Econometrics, Third Edition*, is shorter and more focused on selective topics, important results are demonstrated in a simple manner, and algebra and proofs are presented so that instructors can choose to include or exclude them.

Features:

- Presents new examples and exercises that use real data to make the material more relevant.
- Emphasizes model interpretation, especially for nonlinear relationships involving logarithms.

Contents: 1 An Introduction to Econometrics. 2 The Simple Linear Regression Model: Specification and Estimation. 3 Interval Estimation and Hypothesis Testing. 4 The Simple Linear Regression Model: Reporting the Results and Choosing the Functional Form. 5 The Multiple Regression Model. 6 Further Inference in the Multiple Regression Model. 7 Dummy (Binary) Variables. 8 Nonlinear Models. 9 Heteroskedasticity. 10 Autocorrelation. 11 Random Regressors and Moment Based Estimation. 12 Simultaneous Equations. 13 Time Series Econometrics. 14 Regression with Time Series Data. 15 Time Varying Volatility. 16 Pooling Time-Series and Cross-Sectional Data. 17 Qualitative and Limited Dependent Variable Models. 18 Writing and Empirical Research Report, and Sources of Economic Data. Appendices.

Resources: Instructor's Resources including E-Views Computing Handbook, Instructor's Resource CD, Using Excel Guide, STATA. Student Resources including E-Views Computing Handbook, Using Excel Guide, STATA.

9780471723608 • 608pp • 2008 • Hbk
£46.99/€56.40



Applied Econometric Time Series

3rd Edition

WALTER ENDERS, Alabama State University.

Learn to master time-series analysis efficiently and effectively with *Applied Econometric Time Series!*

This bestselling, classic text demonstrates modern techniques for developing models capable of forecasting, interpreting, and testing hypotheses concerning economic data.

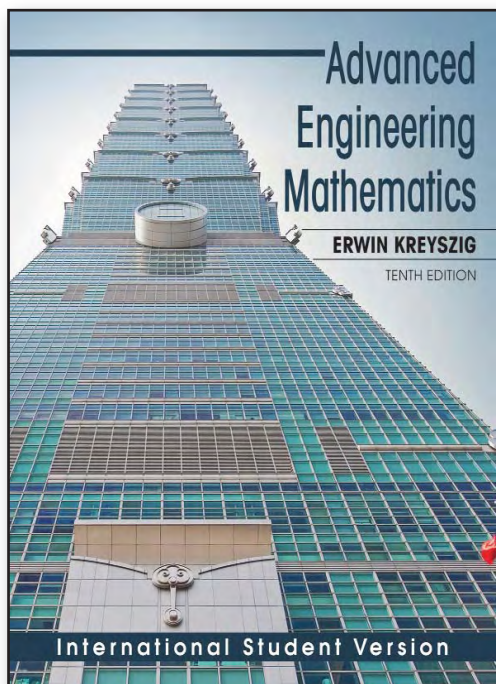
Features:

- New discussion of parameter instability and structural breaks including tests for endogenous breaks.
- New coverage developments in cointegration tests including the error-correction and ADL tests.
- Coverage on new developments in unit root tests including the LM tests and the DF-GLS tests.
- Expanded coverage of multivariate GARCH models to include VECH, BEK and DCC specifications.

Contents: 1 Difference Equations. 2 Stationary Time-Series Models. 3 Modeling Volatility. 4 Testing for Trends and Unit Roots. 5 Multiequation Time-Series Models. 6 Cointegration and Error-Correction Models. 7 Nonlinear Time-Series Models. 8 Statistical Tables. 9 References. Indexes.

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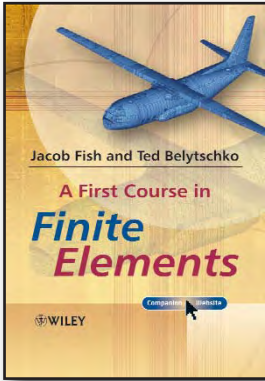
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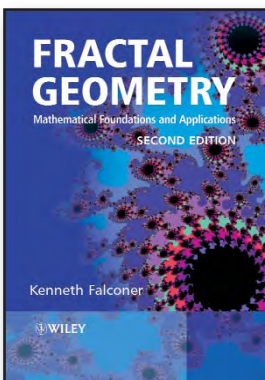
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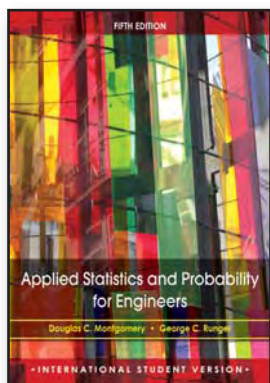
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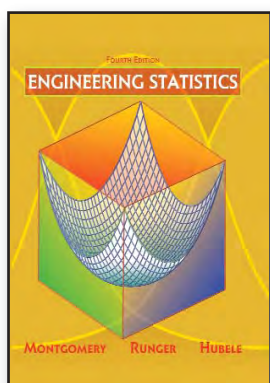
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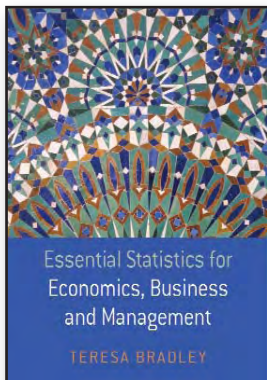
The book covers all major aspects of engineering statistics, including descriptive statistics, probability and probability distributions, statistical test and confidence intervals for one and two samples, building regression models, designing and analyzing engineering experiments, and statistical process control.

Contents: 1 The Role of Statistics in Engineering. 2 Data Summary and Presentation. 3 Random Variables and Probability Distributions. 4 Decision Making for a Single Sample. 5 Decision Making for Two Samples. 6 Building Empirical Models. 7 Design of Engineering Experiments. 8 Statistical Quality Control. Appendices. Index.

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Companion website includes data sets, image gallery, solution manual and Powerpoint slides.



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Essential Statistics for Economics, Business and Management

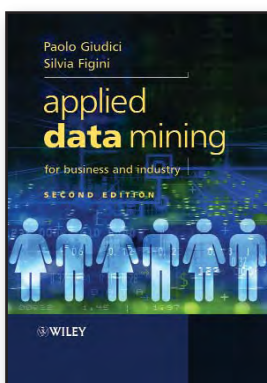
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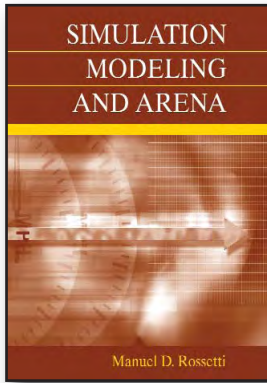
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JAMES J. SOLBERG, Purdue University.

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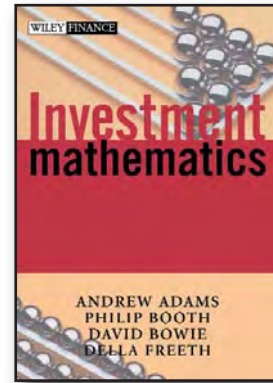
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Investment Mathematics

ANDREW A. ADAMS, University of Edinburgh

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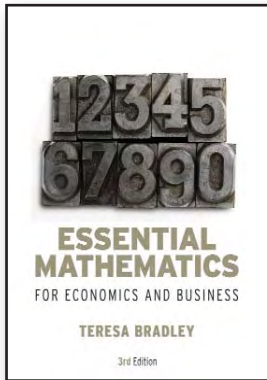
DAVID C. BOWIE, Hymans Robertson

DELLA S. FREETH, City University.

Investment Mathematics provides an introductory analysis of investments from a quantitative viewpoint, drawing together many of the tools and techniques required by investment professionals. Using these techniques, the authors provide simple analyses of a number of securities including fixed interest bonds, equities, index-linked bonds, foreign currency and derivatives. The book concludes with coverage of other applications, including modern portfolio theory, portfolio performance measurement and stochastic investment models.

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3rd Edition

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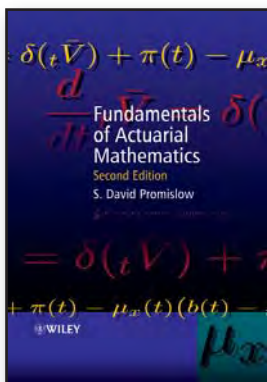
This text has become established as one of the leading introductory textbooks on mathematics for students of these subjects.

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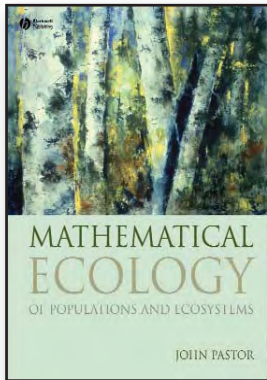
This new edition includes additional material on credibility theory, continuous time multi-state models, more complex types of contingent insurances, exible contracts such as universal life, the risk measures VaR and TVaR.

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Mathematical Ecology

Of Populations and Ecosystems

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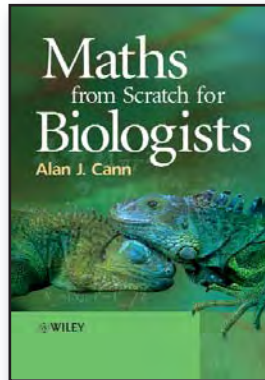
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Maths from Scratch for Biologists

ALAN CANN, University of Leicester.

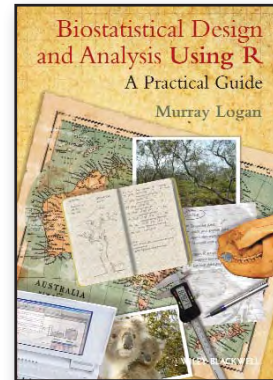
Numerical ability is an essential skill for everyone studying the biological sciences. Many students are frightened by the 'perceived' difficulty of mathematics, and are nervous about applying mathematical skills in their chosen field of study. Having taught introductory maths and statistics for many years, Alan Cann understands these challenges and just how invaluable an accessible, confidence building textbook could be to the fearful student.

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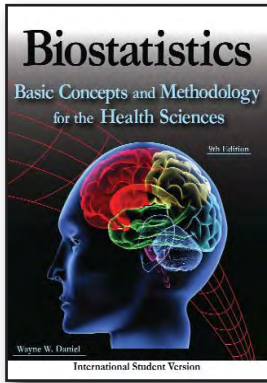
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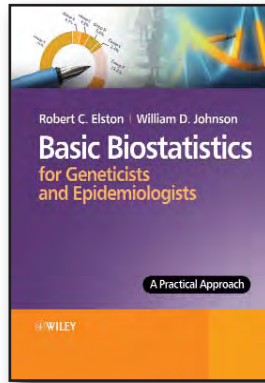
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Basic Biostatistics for Geneticists and Epidemiologists

A Practical Approach

ROBERT C. ELSTON, Case Western
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Experimental Methods

An Introduction to the Analysis
and Presentation of Data

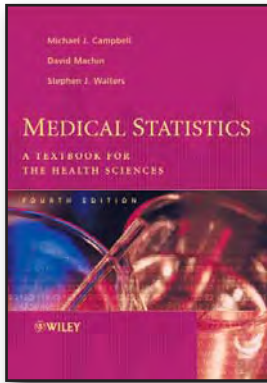
LES KIRKUP, University of Technology.

This concise and easy to read text
introduces first year students to the
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data. Written for students taking
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A Textbook for the Health Sciences

4th Edition

MICHAEL J. CAMPBELL, University of Sheffield, DAVID MACHIN, National Cancer Center, Singapore, STEPHEN J. WALTERS, University of Sheffield.

Written by three experts with wide teaching and consulting experience

Medical Statistics: A Textbook for the Health Sciences:

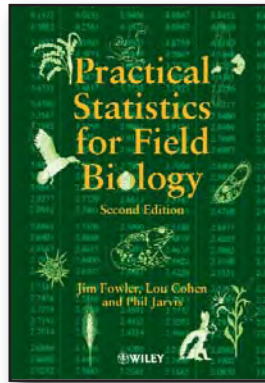
- Assumes no prior knowledge of statistics.
- Covers all essential statistical methods.
- Completely revised, updated and expanded.
- Includes numerous examples and exercises on the interpretation of the statistics in papers published in medical journals.

"The book has several excellent features: it is written by statisticians, is....well presented, is well referenced....and is short." – THE LANCET

"Many statisticians are concerned at the generally poor standard of statistics in papers published in medical journals. Perhaps this could be remedied if more research workers would spare a few hours to read through Campbell and Machin's book." – BRITISH MEDICAL JOURNAL

Contents: 1 Uses and Abuses of Medical Statistics. 2 Describing and Displaying Categorical Data. 3 Describing and Displaying Quantitative Data. 4 Probability and Decision Making. 5 Distributions. 6 Populations, Samples, Standard Errors and Confidence Intervals. 7 p-values and Statistical Inference. 8 Tests for Comparing Two Groups of Categorical or Continuous Data. 9 Correlation and Linear Regression. 10 Survival Analysis. 11 Reliability and Methods Comparison Studies. 12 Observational Studies. 13 The Randomised Controlled Trial. 14 Sample Size Issues. 15 Common Pitfalls.

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Practical Statistics for Field Biology

2nd Edition

JIM FOWLER, DeMontfort University
LOU COHEN, Loughborough University of Technology
PHIL JARVIS, Zeneca Pharmaceuticals.

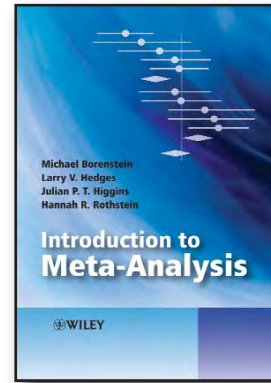
This unique treatment acknowledges the peculiarities of field-based data and its interpretation. It provides biologists with sufficient grounding in statistical principles and methods to enable them to understand research reports in journals, decide on the most appropriate statistical tests for their own problems and finally to analyse and present their findings.

Features:

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Introduction to Meta-Analysis

MICHAEL BORENSTEIN, Biostat Inc.

LARRY V HEDGES, Northwestern University

JULIAN P.T HIGGINS, University College London

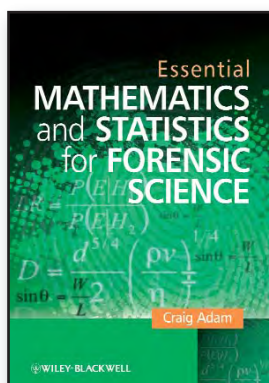
HANNAH R. ROTHSTEIN, Baruch College.

Features:

- Provides worked examples throughout, with visual explanations, using screenshots from Excel spreadsheets and computer programs such as Comprehensive Meta-Analysis (CMA) or Strata.
- Details instructions for performing the analyses shown in the screenshots, and manipulating the variables to fully master the techniques.
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- Authored by four of the leading names in meta-analysis research.

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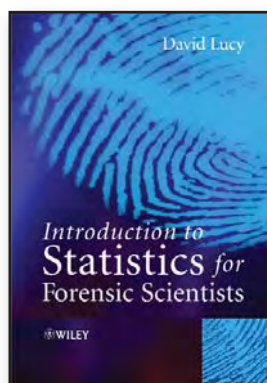
From a basis of high school mathematics, the book develops essential quantitative analysis techniques within the context of a broad range of forensic applications. This clearly structured text focuses on developing core mathematical skills together with an understanding of the calculations associated with the analysis of experimental work, including an emphasis on the use of graphs and the evaluation of uncertainties.

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Introduction to Statistics for Forensic Scientists

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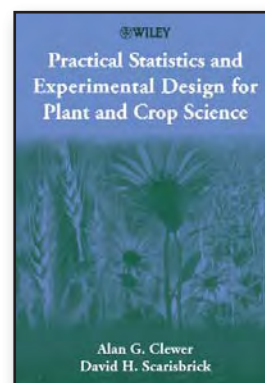
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Features:

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Practical Statistics and Experimental Design for Plant and Crop Science

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DAVID H. SCARISBRICK, both of
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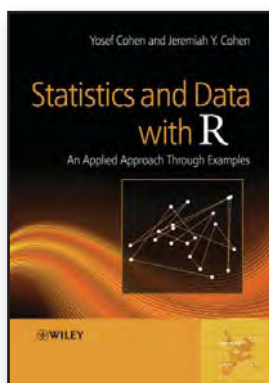
An introduction to the principles of plant and crop experimentation and how statistics is used in the design and analysis of experiments. This gives students a thorough understanding of the commonly used experimental techniques and the practical problems associated with them.

Key Features:

- Includes exercises at the end of each chapter making it ideal for self-teaching. Solutions with discussion will be given at the back of the book.
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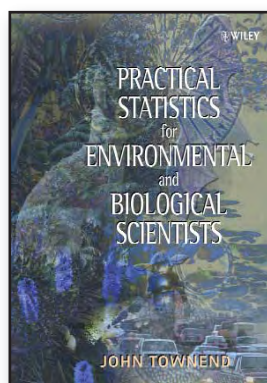
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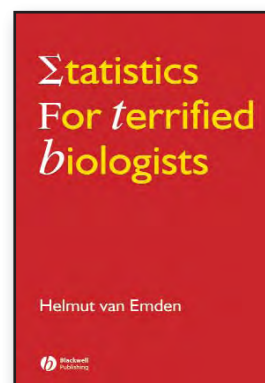
Practical Statistics for Environmental and Biological Scientists

JOHN TOWNEND, University of Aberdeen.

Practical Statistics for Environmental and Biological Scientists provides a concise, user-friendly, non-technical introduction to statistics. The book covers planning and designing experiments, how to analyse and present data, and the limitations and assumptions of each statistical method. The text does not refer to a specific computer package but descriptions of how to carry out the tests and interpret the results are based on the approaches used by most of the commonly used packages. Formulae are kept to a minimum and relevant examples are included throughout the text.

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Statistics for Terrified Biologists

HELMUT VAN EMDEN, formerly University of Reading.

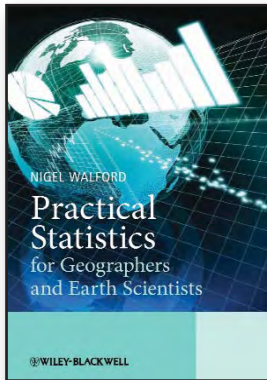
Written in a lively and engaging style, this textbook makes basic statistical methods and applications accessible to undergraduate biology and environmental science students. Based on a course created by an internationally renowned professor with over 30 years teaching experience.

Features:

- Straight forward, jargon-free language demystifies statistical formulas for the average student.
- Includes additional activities that can be tackled with a basic pocket calculator at the end of each chapter.
- Features simple illustrations and useful case studies to help illustrate key concepts.

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NIGEL WALFORD

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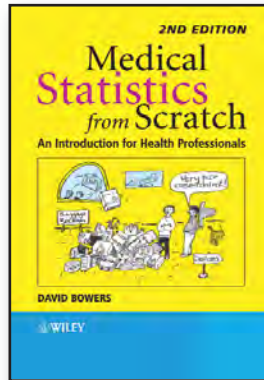
The main rationale for the text is to demystify the mathematical component of statistics and to present these techniques in a digestible fashion. This will be achieved through case studies that illustrate the workings of each technique, through photographs and diagrams that help students visualise some of the processes involved and through a clear explanation of how statistical software packages work.

Features:

- Takes a practical approach to statistics with a range of case studies illustrating each key technique.
- Photographs complement tables and figures to assist with explaining statistical concepts e.g. sampling strategies.
- Includes a flowchart to help students plan and design their independent projects.
- Sample output from the key statistical software packages (Excel, SPSS, MINITAB) will be analysed.

Contents: Preface. Acknowledgements. Glossary. Section I First Principles. 1 What's In A Number? 2 Geographical Data: Quantity and Content. 3 Geographical Data: Collection and Acquisition. 4 Statistical Measures (Or Quantities). 5 Frequency Distributions, Probability and Hypotheses Flow Diagrams. Section II Testing Times Chapter. 6 Parametric Tests. 7 Non-Parametric Tests. Section III Forming Relationships. 8 Correlation. 9 Regression. 10 Correlation and Regression of Spatial Data. Selected Reading. Index.

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Medical Statistics from Scratch

An Introduction for Health Professionals

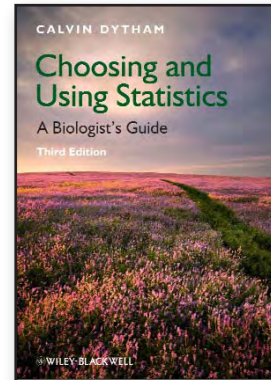
2nd Edition

DAVID BOWERS, The Nuffield Institute of Health, University of Leeds and Leeds General Infirmary.

This long awaited second edition of this bestseller continues to provide a comprehensive, user friendly, down-to-earth guide to elementary statistics. The book presents a detailed account of the most important procedures for the analysis of data, from the calculation of simple proportions, to a variety of statistical tests, and the use of regression models for modeling of clinical outcomes.

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A Biologist's Guide

3rd Edition

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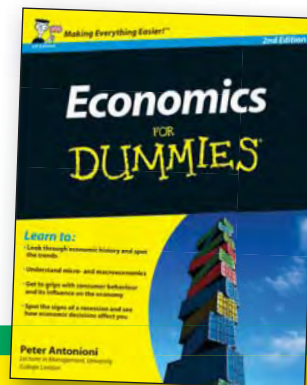
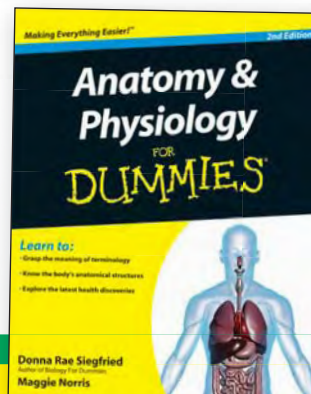
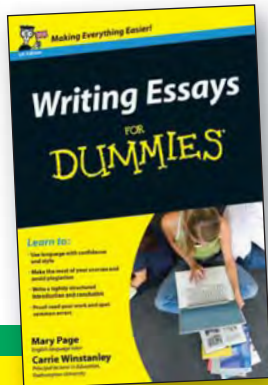
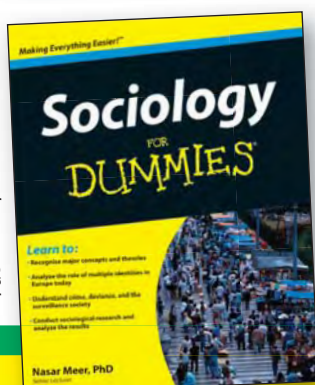
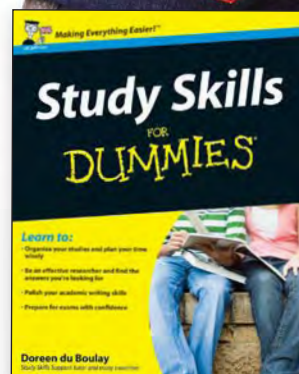
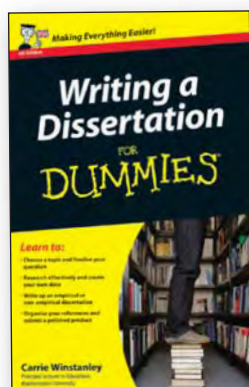
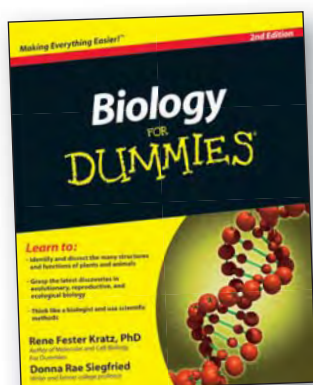
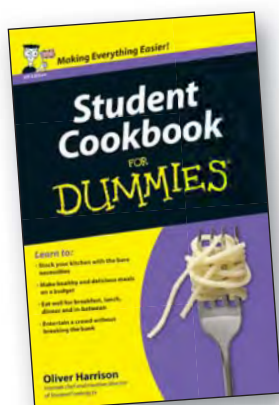
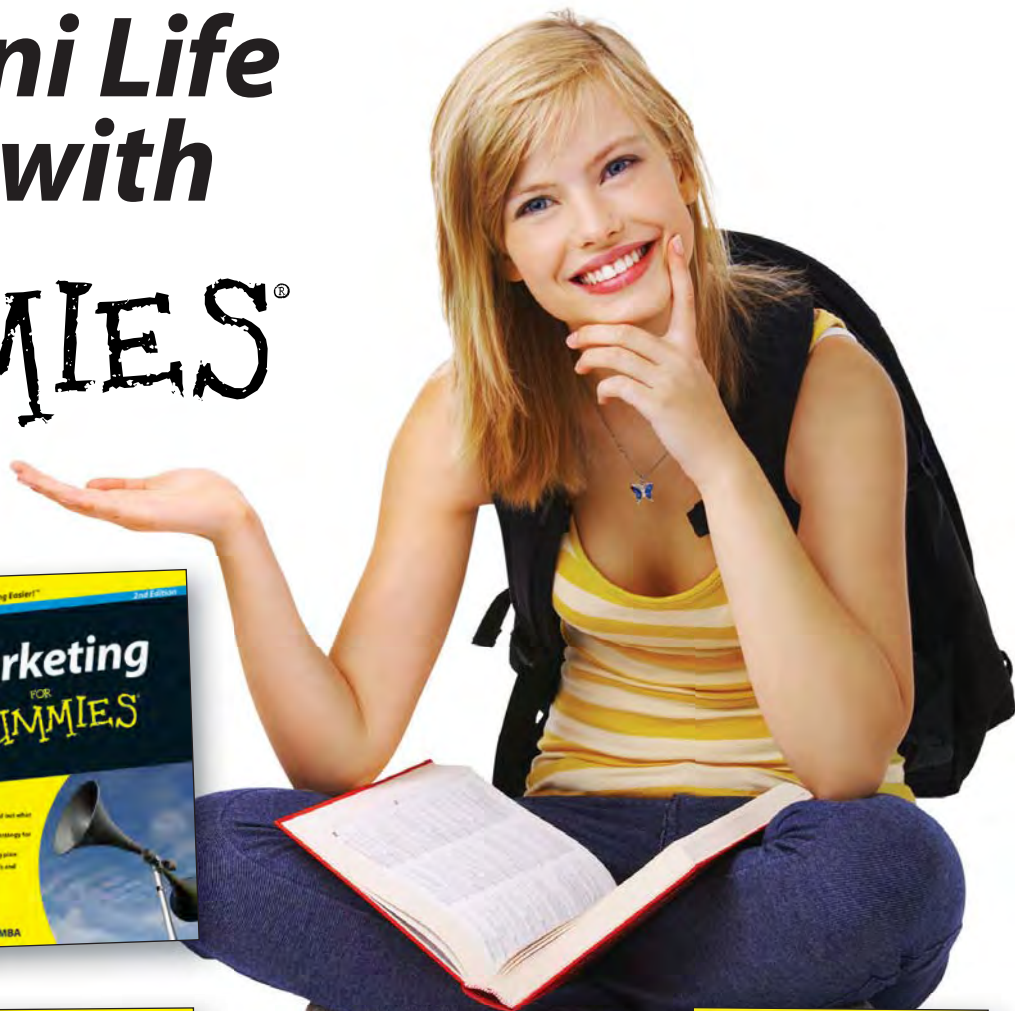
- Now features information on using the popular free program, R.
- Aimed at students using statistics for projects and in practical classes.
- Includes an extensive glossary and key to symbols to explain any statistical jargon.
- No previous knowledge of statistics is assumed.

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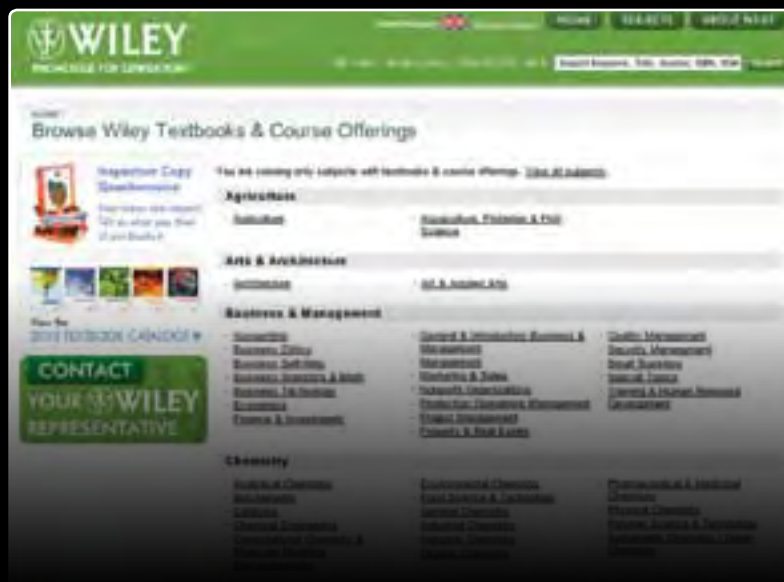
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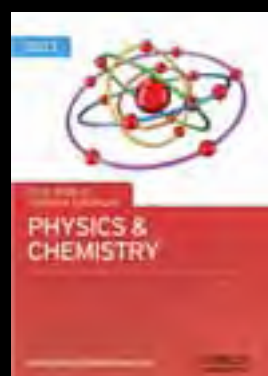
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