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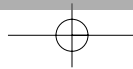
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General & Elementary Mathematics

NEW

Trigonometry

CYNTHIA Y. YOUNG



This innovative book combines a wide variety of relevant applications with a unique method to help properly prepare readers for trigonometry. It not only shows them how to quickly and easily solve problems, but also trains them to avoid common mistakes. This includes the integration of Catch the Error sections throughout the chapters that get the reader to uncover mistakes in calculations. The book also follows a graphing optional approach, providing very few integrated screen shots and little keystroke instruction.

Features

- An accessible, easy-to-follow introduction to trigonometry that alleviates math anxiety.
- Written in a conversation style while appealing to the readers' interests.
- Shows how to implement the ideas and concepts of trigonometry in a timely fashion.
- Offers an effective integration of pedagogy that specifically addresses the varying learning styles that readers may have.
- Presents examples of incorrect answers along with correct answers to train readers.
- Incorporates a five step problem solving method that makes learning math easier.

Contents: Right Triangle Trigonometry; Trigonometric Functions; Radian Measure and Circular Functions; Graphing Trigonometric Functions; Trigonometric Identities; Solving Trigonometric Equations; Applications of Trigonometric Functions and Vectors; Complex Numbers, Polar Coordinates, and Parametric Equations; APPENDIX: Algebraic Prerequisites and Review

ISBN 13: 9780471756859 / ISBN 10: 0471756857
640pp December 2006 CI

NEW

The Art and Craft of Problem Solving

2ND EDITION

PAUL ZEITZ, *University of San Francisco*

The newly revised Second Edition of this distinctive text uniquely blends interesting problems with strategies, tools and techniques to develop mathematical skill and intuition necessary for problem solving. Readers are encouraged to do math rather than just study it. The author draws upon his experience as a coach for the International Mathematics Olympiad to give students an enhanced sense of mathematics and the ability to investigate and solve problems.

Features

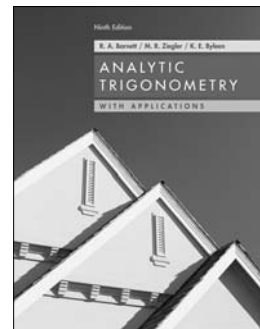
- Focuses on problem-solving, rather than doing exercises, using a collection of interesting, non-routine problems.
- Contains new examples and exercises and improved figures throughout the text.
- Includes a new chapter on geometry and additional material in the calculus chapter.
- Engages beginners and math faculty alike in its multi-level format.
- Presents mathematical solutions in a clear, straightforward way and uses energetic, precise, and lively writing style to expose readers to ways of thinking that can lead to results.
- Structured to first discuss overall strategies and then specifics to allow both the instructor and student to see how to develop a mode of attack and how to apply specific techniques to problems.

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384pp September 2006 Pr

Analytic Trigonometry with Applications

9TH EDITION

RAYMOND A. BARNETT, *Merritt College*,
MICHAEL R. ZIEGLER, *Marquette University*
and KARL E. BYLEEN, *Marquette University*



Featuring updated content, vivid applications, and integrated coverage of graphing utilities, the ninth edition of this hands-on trigonometry text guides readers step by step, from the right triangle to the unit-circle definitions of the trigonometric functions.

Features:

- Applications and "challenge" exercises have been updated and expanded.
- Updated and revised exposition and examples for clarity and timeliness.
- More than 2,000 carefully selected and graded problems from many different fields provide variety and relevance. The authors include both application-oriented exercises and an abundance of graded mechanical-type exercises.
- Concept development proceeds from the concrete to the abstract. For example, right-triangle definitions of trigonometric functions precede the unit-circle definitions of these functions.
- Realistic applications relate the subject matter to the real world.
- The functional use of colour makes the text easier to read and enhances the aesthetic appearance of the book.

Contents: Right Triangle Ratios; Trigonometric Functions; Graphing Trigonometric Functions; Identities; Inverse Trigonometric Functions; Trigonometric Equations and Inequalities; Additional Topics: Triangles and Vectors; Polar Coordinates; Complex Numbers; Appendix A: Comments on Numbers; Appendix B: Functions and Inverse Functions; Appendix C: Plane Geometry; Some Useful Facts; Selected Answers; Index

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The M-Tutor Interactive Tutorial

BRIAN DAKU

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General & Elementary Mathematics

NEW

College Algebra



CYNTHIA Y. YOUNG,
University of Central Florida

This mainstream yet innovative college algebra text is written by an experienced college algebra instructor who actively teaches this course. She uses a clear, single voice that speaks directly to students similar to how instructors communicate to them in lectures. It features truly unique, strong pedagogy that bridges the gap between in-class work and homework.

Students learning from it will overcome common barriers to learning in college algebra and build confidence in their ability to do mathematics. The seamlessly integrated digital and print resources were either author written or advised and are the result of a global vision for the text and supplements.

Contents: Prerequisites and Review; Equations and Inequalities; Graphs; Functions and their Graphs; Polynomial and Rational Functions 262; Exponential and Logarithmic Functions; Systems of Equations and Inequalities; Matrices; Conics; Sequences, Series and Probability; Answers to Odd Numbered Exercises; Applications Index; Subject Index

Supplements: Instructor's Test Bank; Computerised Test Bank; Instructor's PowerPoint Slides; Student Solution's Manual

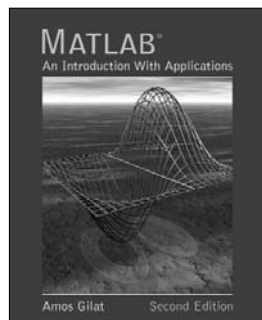
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752pp January 2006 Cl

MATLAB

An Introduction with Applications,
2ND EDITION

AMOS GILAT, *The Ohio State University*



Designed for the newest version of the popular MATLAB software program and priced below competitive texts, MATLAB: An Introduction with Applications, 2/e requires no previous knowledge of computer programming. That, plus its brevity and accessibility, make it the perfect introduction for first- and second-year students. The first chapter describes basic features of the program and shows how to use it in simple arithmetic operations with scalars. The next two chapters focus on the topic of arrays (the basis of MATLAB), while the remaining text covers a wide range of other applications. Computer screens, tutorials, samples, and homework questions in math, science, and engineering, provide the student with the practical hands-on experience needed for total proficiency.

New to This Edition:

- Updated to the July 2004 release of MATLAB, Version 7.
- A new chapter on symbolic math has been added.
- Chapter 4 includes a new section on importing and exporting data.

Contents: Starting with MATLAB; Creating Arrays; Mathematical Operations with Arrays; Script Files; Two Dimensional Plots; Functions and Function Files; Programming in MATLAB; Polynomials, Curve Fitting, A Interpolation; Three Dimensional Plots; Applications in Numerical Analysis; Symbolic Math

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CARL B. BOYER, *Brooklyn College*,
Revised by UTA C. MERZBACH, *LHM Institute*

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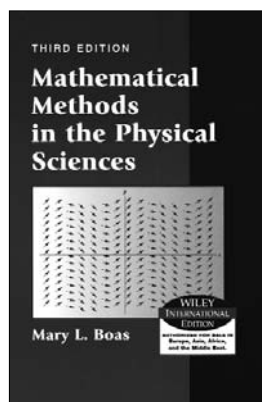
New to This Edition:

- Matrix diagonalization has been moved from Ch. 10 to Ch. 3 and the treatment of tensors in Ch. 10 has been expanded.
- Ch. 3 also includes more detail on linear vector spaces. The discussion of basis function is continued in Ch. 7 (Fourier Series), Ch. 8 (Differential Equations), Ch. 12 (Series Solutions), and Chapter 13 (Partial Differential Equations).
- Fourier integrals have been moved to Ch. 7 (Fourier Series). The Laplace transform and an expanded treatment of the Dirac delta function have been moved to Ch. 8 (Differential Equations).
- Throughout the book, the usefulness and also the pitfall of computer algebra systems are pointed out.

Contents: Infinite Series, Power Series; Complex Numbers; Linear Algebra; Partial Differentiation; Multiple Integrals; Vector Analysis; Fourier Series and Transforms; Ordinary Differential Equations; Calculus of Variations; Tensor Analysis; Special Functions; Legendre, Bessel, Hermite, and Laguerre functions; Partial Differential Equations; Functions of a Complex Variable; Probability and Statistics

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864pp Summer 2005 CI



Protein Bioinformatics

An Algorithmic Approach to Sequence and Structure Analysis
INGVAR EIDHAMMER and INGE JONASSEN,
Both of University of Bergen, Norway,
WILLIAM R. TAYLOR, *National Institute for Medical Research, London, UK*

Bioinformatics is the study of biological information and biological systems – such as of the relationships between the sequence, structure and function of genes and proteins. The subject has seen tremendous development in recent years, and there are ever-increasing needs for good understanding of quantitative methods in the study of proteins. *Protein Bioinformatics: An Algorithmic Approach to Sequence and Structure Analysis* takes the novel approach of covering both the sequence and structure analysis of proteins in one volume and from an algorithmic perspective.

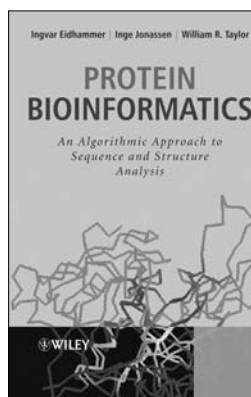
Features:

- Provides a comprehensive introduction to the analysis of protein sequences and structures.
- Provides an integrated presentation of methodology, examples, exercises and applications.
- Emphasises the algorithmic rather than mathematical aspects of the methods described.
- Covers comparison and alignment of protein sequences and structures as well as protein structure prediction focusing on threading approaches.
- Written in an accessible yet rigorous style, suitable for biologists, mathematicians and computer scientists alike.
- Suitable both for developers and users of bioinformatics tools.
- Supported by a Web site featuring exercises, solutions, images, and computer programs.

Contents: Preface; Acknowledgements; Part I: SEQUENCE ANALYSIS; Pairwise Global Alignment of Sequences; Pairwise Local Alignment and Database Searching; Statistical Analysis; Multiple Global Alignment and Phylogenetic Trees; Scoring Matrices; Profiles; Sequence Patterns; Part II: STRUCTURE ANALYSIS; Structures and Structure Descriptions; Superposition and Dynamic Programming; Geometric Techniques; Clustering: Combining Local Similarities; Significance and Assessment of Structure Comparisons; Multiple Structure Comparison; Part III: SEQUENCE-STRUCTURE ANALYSIS; Structure Prediction: Threading; Appendix A: Basics in Mathematics, Probability and Algorithms; Appendix B: Introduction to Molecular Biology; References; Index

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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 but 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. Unable to find a book pitched at the right level, that concentrated on why numerical skills are useful to biologists, he wrote his own. The result is *Maths from Scratch for Biologists*, a highly instructive, informal text that explains step by step how and why you need to tackle maths within the biological sciences.

Contents: Maths in Biology; Manipulating Numbers; Units and Conversions; Molarities and Dilutions; Areas and Volumes; Exponents and Logs; Introduction to Statistics; Descriptive Statistics; Probability; Inferential Statistics; Correlation and Regression; Appendix 1: Answers to Problems; Appendix 2: Software for Biologists; Appendix 3: Statistical Formulae and Tables; Appendix 4: Glossary; Index.

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R. LAMBOURNE, *The Open University* and M. TINKER, *University of Reading*

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Contents: BASIC ARITHMETIC AND ALGEBRA: Introducing Arithmetic and Algebra; Numbers, Units and Physical Quantities; Functions and Graphs; Solving Equations; Trigonometric Functions; Exponential and Logarithmic Functions; Hyperbolic Functions; BASIC GEOMETRY: Introducing Geometry; Co-ordinate Geometry; Conic Sections; BASIC VECTOR ALGEBRA: Introducing Vectors; Working with Vectors; BASIC DIFFERENTIATION: Introducing Differentiation; Differentiating Simple Functions; Differentiating Composite Functions; Stationary Points and Graph Sketching; BASIC INTEGRATION: Introducing Integration; Integrating Simple Functions; Integrating by Parts and by Substitution; Appendix - Mathematics Handbook; Answers and Comments; Index.

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Mathematics for the Sciences

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GRAHAM CURRELL, *University of the West of England, UK* ANTONY DOWMAN

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Contents: Preface; Mathematics and Statistics in Science; Scientific Data; Equations in Science; Linear Relationships; Logarithmic and Exponential Functions; Rates of Change; Statistics and Information; Distributions and Uncertainty; Scientific Investigation; Parametric Tests; Chi-squared Tests; Non-parametric Tests; Experimental Design and Analysis

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M. TINKER, *University of Reading* and R. LAMBOURNE, *The Open University*

Following on from *Basic Mathematics for the Physical Sciences* by the same author team this book is aimed at all students in the physical sciences taking a second course in mathematics. It consists of self-paced modules that can be studied as part of a traditional course or as an open or distance learning course and it also gives lecturers the flexibility to cover topics at different rates and in any order they choose.

Contents: COMPLEX NUMBERS: Introducing Complex Numbers; Polar Representation of Complex Numbers; DeMoivre's Theorem and Complex Algebra; VECTOR ALGEBRA: Scalar Product of Vectors; Vector Product of Vectors; DETERMINANTS AND MATRICES: Determinants; Matrices; DIFFERENTIATION, EXPANSION AND APPROXIMATION: Expansions and Approximations; Taylor Expansions and Polynomial Approximations; Hyperbolic Functions and Differentiation; INTEGRATION, SUMMATION AND AVERAGING: Areas, Volumes and Averages; Special Integration Techniques; DIFFERENTIAL EQUATIONS: Formulating and Classifying Differential Equations; Solving First Order Differential Equations; Solving Second Order Differential Equations; Waves and Partial Differential Equations; VECTOR CALCULUS: Differentiating Vectors; Integrating Vectors; Appendix - Mathematics Handbook; Answers and Comments; Index.

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Calculus, Analysis & Differential Equations

Calculus

Late Transcendentals Single and Multivariable
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HOWARD A. ANTON, *Drexel University*, IRL BIVENS and STEPHEN DAVIS, *Both of Davidson College*

The new edition of Calculus continues to evolve to fulfil the needs of a changing market by providing flexible solutions to teaching and learning needs of all kinds. Calculus 8th Edition excels in increasing student comprehension and conceptual understanding of the mathematics. The new edition retains the strengths of earlier editions: e.g., Anton's trademark clarity of exposition; sound mathematics; excellent exercises and examples; and appropriate level, while incorporating new ideas that have withstood the objective scrutiny of many skilled and thoughtful instructors, and their students.

Features:

- New Quick Check Exercises in each section's exercise set starts with a basic set of 4-8 exercises designed to cover key skills and concepts in the section.
- New Focus on Concepts throughout each exercise set highlight exercises of a conceptual nature
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- Mathematical Level: The book is written at a mathematical level that is suitable for students planning on careers in engineering or science.

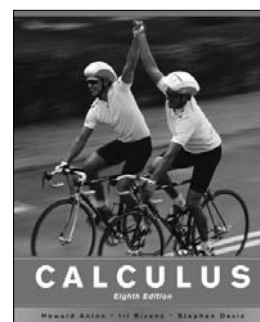
Contents: Limits and Continuity; The Derivative; Derivatives of Exponential, Logarithmic, and Inverse Trigonometric Functions; The Derivative in Graphing and Applications; Integration; Applications of the Definite Integral in Geometry, Science, and Engineering; Principles of Integral Evaluation; Mathematical Modeling with Differential Equations; Infinite Series; Analytic Geometry in Calculus; Three-Dimensional Space; Vectors; Vector-Valued Functions; Partial Derivatives; Multiple Integrals; Topics in Vector Calculus; Appendices

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Calculus, Analysis & Differential Equations

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Calculus

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For ten editions, readers have turned to Salas to learn the difficult concepts of calculus without sacrificing rigor. The book consistently provides clear calculus content to help them master these concepts and understand its relevance to the real world. Throughout the pages, it offers a perfect balance of theory and applications to elevate their mathematical insights. Readers will also find that the book emphasizes both problem-solving skills and real-world applications.

Features

- A rigorous approach to calculus that integrates technology.
- Contains over 750 problems ranging from routine to medium-level to intensely challenging.
- Includes numerous figures to enhance visualization of calculus.
- Integrates full color, three-dimensional figures in the chapters to increase geometric understanding.
- Offers a precalculus review to get readers up to speed.
- Provides answers to all odd-numbered exercises to allow readers to check their work.

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An Introduction to Modern Methods and Applications

JAMES R. BRANNAN: *Clemson University and*
WILLIAM E. BOYCE: *Rensselaer Polytechnic Institute*

Written by one of the most well known names in mathematics, this book provides readers with a more modern approach to differential equations. It is streamlined for easier readability while incorporating the latest topics and technologies. The modeling- and technology-intensive format allows readers who may normally struggle with learning the subject to feel confident. It also incorporates numerous exercises that have been developed and tested over decades.

Features

- A more modern and technology-intensive presentation of differential equations
- Covers all of the essential topics on differential equations.
- Contains unique new projects and problems that help readers learn how to apply the material.
- Offers clear, concise explanations of important concepts.
- Integrates numerous current examples throughout the pages to enhance the information.
- Includes links from within the text to specific visualization modules in ODE Architect.

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Introduction to Vector Calculus

MIROSLAV LOVRIC, *McMaster University*

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Features

- A thorough introduction to the ideas and theory of vector calculus.
- Provides a comprehensive review of relevant topics in linear algebra and calculus of real-valued functions of one and several variables.
- Promotes learning by presenting geometric, numeric, analytic and applied approaches.
- Includes detailed, step-by-step solutions to all examples.
- Makes challenging topics more accessible, such as the chain rule, Implicit Function Theorem, parametrizations, and the Change of Variables Theorem.
- Shows a wide range of disciplines where vector calculus is used to make the material more relevant

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A Preparation for Calculus, **3RD EDITION**ERIC CONNALLY, *Wellesley College*

With its combination of concepts and skill-building, as well as the focus on functions, the new third edition better prepares readers for calculus. In order to make this complex subject more engaging, the authors incorporate the rule of four, superior exercises, a concise presentation, rich real-world data and an appropriate integration of technology. They also introduce linear, exponential, power, and periodic functions before polynomial and rational functions to take advantage of their use to model physical phenomena.

Features

- An accessible, in-depth guide to the essential concepts of calculus.
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- Integrates new exercises throughout the chapters to reinforce important concepts.
- Provides new Concept Tests, which will help readers master calculus.
- Utilizes numerous examples to enable readers to create mathematical models that will help them understand the world in which they live.
- Follows numerical and graphical approaches as well as algebraic approaches to give readers another way of mastering the material.

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Calculus, Analysis & Differential Equations

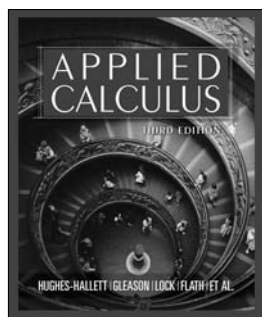
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Applied Calculus



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"I very much like the conceptual approach and the variety of applications. The homework problems are wonderful and I am glad that they don't only follow the examples (monkey see, monkey do) that most texts use in their homework."
-Scott Adamson, Chandler-Gilbert Community College

Applied Calculus, 3/E brings together the best of both new and traditional curricula to meet the needs of today's students. The author team's extensive teaching experience and proven ability to write innovative and relevant problems has made this text a true bestseller. Exciting new real-world applications make this new edition even more meaningful to students in management, life and social sciences. This book will work well for those departments seeking a middle ground for their instructors.

Applied Calculus, 3/E exhibits the same strengths from earlier editions including the "Rule of Four", an emphasis on concepts and modeling, exposition that students can read and understand and a flexible approach to technology. The conceptual and modeling problems, praised for their creativity and variety, continue to motivate and challenge students.

Contents: Functions and Change; Rate of Change: The Derivative; Short-Cuts to Differentiation; Using the Derivative; Accumulated Change: The Definite Integral; Using the Integral; Antiderivatives; Probability; Functions of Several Variables; Mathematical Modeling using Differential Equations; Geometric Series; Appendix: Spreadsheet Projects; Pretest; Answers to Odd-Numbered Problems; Index

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Differential Equations

A Modeling Perspective, 2ND EDITION

ROBERT L. BORRELLI and COURTNEY S. COLEMAN, *both of Harvey Mudd College*

With the modeling and graphical visualization as the central approach, this book introduces differential systems and numerical methods early on and encourages the use of numerical solvers from the very start. It covers modern topics such as sensitivity, long-term behavior, bifurcation, and chaos together with the basic solution formula techniques and theory.

Features:

- Emphasizes mathematical modeling every picture tells a story.
- A dynamic systems approach that models natural processes that evolve in time.
- Graphic visualization is emphasized - The text and the hundreds of graphs and solutions emphasize a visual connection with the theory.

Contents: Modeling and Differential Equations; First-Order Differential Equations; Second-Order Differential Equations; Applications of Second-Order Differential Equations; The Laplace Transform; Linear Systems of Differential Equations; Nonlinear Differential Systems; Stability; Nonlinear Systems: Cycles and Chaos; Fourier Series and Partial Differential Equations; Series Solutions; Appendix A: Basic Theory of Initial Value Problems; Appendix B: Background Information; Answers to Selected Problems; Index

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Calculus



Single and Multivariable,

4TH EDITION

DEBORAH HUGHES-HALLETT, *University of Arizona*, WILLIAM G. MCCALLUM, *University of Arizona*, ANDREW M. GLEASON, *University of Arizona*, DANIEL E. FLATH, *National University of Singapore*, PATTI FRAZER LOCK, *St. Lawrence University*, SHELDON P. GORDON, *Suffolk County Community College*, DAVID O. LOMEN, *University of Arizona*, DAVID LOVELOCK, *University of Arizona*, BRAD G. OSGOOD, *Stanford University*, ANDREW PASQUALE, *Chelmsford High School*, DOUGLAS QUINNEY, *University of Keele, UK*, JEFF TECOSKY-FELDMAN, *Haverford College*, JOE B. THRASH, *University of Southern Mississippi*, KAREN RHEA, *University of Southern Mississippi*, THOMAS W. TUCKER, *Colgate University*

Calculus 4th Edition brings together the best of both new and traditional curricula in an effort to meet the needs of even more instructors teaching calculus. The author team's extensive experience teaching from both traditional and innovative books and their expertise in developing innovative problems put them in a unique position to make this new curriculum meaningful to students going into mathematics and those going into the sciences and engineering.

Calculus 4th Edition exhibits the same strengths from earlier editions including the Rule of Four, an emphasis on modeling, exposition that students can read and understand and a flexible approach to technology. The conceptual and modeling problems, praised for their creativity and variety, continue to motivate and challenge students.

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- A new section in chapter 4 is devoted to related rates, with more thorough coverage, and more problems and examples.
- The problem set for L'Hôpital's rule includes more challenging and different types of problems.
- The coverage of the chain rule has been revised, and includes more multi-step chain rule problems and examples, including more on doing chain rule without intermediate variables.
- Chapter 9 on series has been extensively expanded and rewritten.
- The section on the Lagrange form of the error bound for Taylor polynomials has been revised.
- More optimization problems were added.
- Hyperbolic functions are now treated at the end of chapter 3; many problems involving hyperbolic functions have been added here, and elsewhere in the text.

Contents: A Library of Functions; Key Concept: The Derivative; Short-Cuts to Differentiation; Using the Derivative; Key Concept: The Definite Integral; Constructing Antiderivatives; Integration; Using the Definite Integral; Series; Approximating Functions; Differential Equations; Functions of Several Variables; A Fundamental Tool: Vectors; Differentiating Functions of Many Variables; Optimization: Local and Global Extrema; Integrating Functions of Many Variables; Parameterized Curves and Vector Fields; Line Integrals; Flux Integrals; Calculus of Vector Fields; Appendices; Calculus Easy Reference

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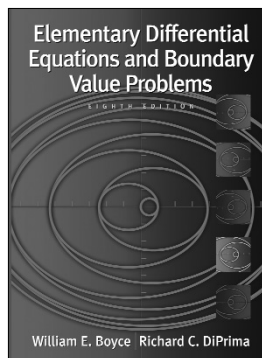
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Supplements: Solutions Manual

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I. KREYSZIG

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CYNTHIA Y. YOUNG



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An Introduction, 5TH EDITION

JOHN R. DURBIN



This text is appropriate for any one-semester junior/senior level course in Modern Algebra, Abstract Algebra, Algebraic Structures, or Groups, Rings and Fields. Durbin 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. The first six chapters present the core of the subject; the remainder are designed to be as flexible as possible. Durbin covers groups before rings, which is a matter of personal preference for instructors. The course is mostly comprised of mathematics majors, but you will find engineering and computer science majors as well.

Features:

- 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.
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- Sections are short with many examples and explanations, so the students do not feel overwhelmed by the material.
- Applications are included to help motivate students and to show the usefulness of modern algebra.

Contents: Mappings and Operations; Introduction to Groups; Equivalence, Congruence, Divisibility; Groups; Group Homomorphisms; Introduction to Rings; The Familiar Number Systems; Polynomials; Quotient Rings; Field Extensions; Galois Theory; Geometric Constructions; Applications of Permutation Groups; Symmetry; Cryptography, Algebraic Coding; Lattices and Boolean Algebras; Appendix A: Sets; Appendix B: Proofs; Appendix C: Mathematical Induction; Appendix D: Linear Algebra; Appendix E: Solutions to Selected Problems; Index

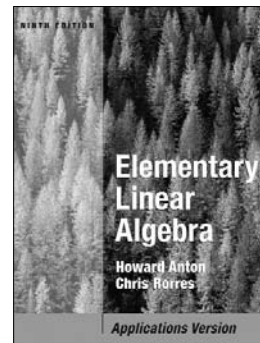
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9TH EDITION

HOWARD A. ANTON,
and CHRIS RORRES,
both of Drexel University



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- Emphasizes Visualization – Geometric aspects of various topics are emphasized, in keeping with current interest in visualization and the growing applications of linear algebra to graphics.
- Discussion and Discovery problems end every section. These problems are often open-ended and designed to promote conceptual understanding.
- Symbol Index describes what each symbol in the text means, and where it is introduced.
- Additional exercises, including Discussion and Discovery, Supplementary, and Technology exercises, have been added throughout the text.

Contents: Systems of Linear Equations and Matrices. Determinants. Vectors in 2 Space and 3-Space. Euclidean Vector Spaces. General Vector Spaces. Inner Product Spaces. Eigenvalues, Eigenvectors. Linear Transformations. Additional topics. Complex Vector Spaces. Applications of Linear Algebra. Answers to Exercises. Index.

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Numerical solution of parameter-dependent linear systems,
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Numerical Linear Algebra with Applications, Vol. 12, Issue 9

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Algebra / Linear Algebra

Visual Linear Algebra

EUGENE A. HERMAN, *Grinnell College*, MICHAEL D. PEPE, *Seattle Central Community College*

I would love to use the above book, at least a part of it, in my Cryptography class. "Visual Linear Algebra" has many tutorials on Matrix which can be explored from cryptographic point of view. The book is an excellent teaching tool for mathematical background in Cryptography.
– Andrew Stypinki, John Carroll University

Visual Linear Algebra is a new kind of textbook—a blend of interactive computer tutorials and traditional text. The computer tutorials provide a lively learning environment in which students are introduced to concepts and methods and where they develop their intuition. The traditional sections provide the backbone whose core is the development of theory and where students' understanding is solidified. Although the design of *Visual Linear Algebra* is novel, the goals for the book are quite traditional. Foremost among these is to provide a rich set of materials that help students achieve a thorough understanding of the core topics of linear algebra and genuine competence in using them.

Contents: Systems of Linear Equations; Vectors; Matrix Algebra; Linear Transformations; Vectors Spaces; Determinants; Eigenvalues and Eigenvectors; Orthogonality; Appendix A: Glossary of Linear Algebra Definitions; Appendix B: Linear Algebra Theorems; Appendix C: Advice for Using Maple with *Visual Linear Algebra*; Appendix D: Commands Used in Maple Tutorials; Appendix E: Appendix with *Visual Linear Algebra*; Appendix F: Commands Used in Mathematic Tutorials; Appendix G: Answers and Hints for Selected Pencil and Paper Problems; Index

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HOWARD ANTON and ROBERT BUSBY, *both of Drexel University*

Without sacrificing mathematical precision, Anton and Busby focus 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. Throughout *Contemporary Linear Algebra*, students are encouraged to look at ideas and problems from multiple points of view.

Contents: Vectors; Systems of Linear Equations; Matrices and Matrix Algebra; Determinants; Matrix Models; Linear Transformations; Dimension and Structure; Diagonalizations; 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

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Contents: Preliminaries; Part I Group Theory; Part II Ring Theory; Part III Modules and Vector Spaces; Part IV Field Theory and Galois Theory; Part V An Introduction To Commutative Rings, Algebraic Geometry, and Homological Algebra; Part IV Introduction To The Representation Theory of Finite Groups; Appendix I Cartesian Products and Zorn's Lemma; Appendix II Category Theory; Index

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Contents: Preface; Introduction; Part I Foundations; Mathematical background; Hausdorff measure and dimension; Alternative definitions of dimension; Techniques for calculating dimensions; Local structure of fractals; Projections of fractals; Products of fractals; Intersections of fractals; Part II Applications and Examples; Iterated function systems; Examples from number theory; Graphs of functions; Examples from pure mathematics; Dynamical systems; Iteration of complex functions—Julia sets; Random fractals; Brownian motion and Brownian surfaces; Multifractal measures; Physical applications; References; Index.

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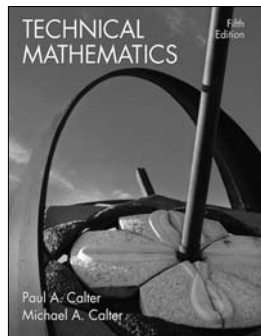
Engineering Mathematics

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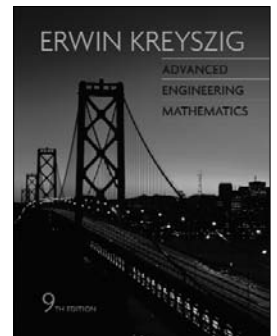
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Supplements: Instructor's Solution Manual

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2ND EDITION

R. FLETCHER, *University of Dundee*

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Discrete Mathematics

DOUG ENSLEY, *Shippensburg University*,

J. WINSTON CRAWLEY, *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. Another important content thread, as the sub-title implies, is the focus on mathematical puzzles, games and magic tricks to engage students.

Features:

- Text is replete with "real world excursions" reinforcing the utility of discrete mathematics.
- 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.
- Appendices on basic matrix operations as well as an appendix explaining the basic rules and terminology for many of the games used for examples in the book.
- Answers and hints are given in the back of the book and more detailed solutions to those exercises are found in a supplementary student solutions manual.

Contents: Puzzles, Patterns and Mathematical Language; A Primer of Mathematical Writing; Sets and Boolean Algebra; Functions and Relations; Combinatorics; Probability; 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

Please visit: www.wileyurope.com/college/ensley for more information and additional resources (where available)

ISBN 13: 9780471476023 / ISBN 10: 0471476021 704pp 2005 Cl

NEW

Applied Combinatorics

5TH EDITION

Alan Tucker, *State University of New York at Stony Brook*

Updated with new material, this Fifth Edition of the most widely used book in combinatorial problems explains how to reason and model combinatorially. It also stresses the systematic analysis of different possibilities, exploration of the logical structure of a problem, and ingenuity. Combinatorial reasoning underlies all analysis of computer systems. It plays a similar role in discrete operations research problems and in finite probability. This book seeks to develop proficiency in basic discrete math problem solving in the way that a calculus text develops proficiency in basic analysis problem solving.

Features

- Theory is always first motivated by examples, and proofs are given only when their reasoning is needed to solve applied problems. Elsewhere, results are stated without proof, such as the form of solutions to various recurrence relations, and then applied in problem solving.
- This new fifth edition has new examples, expanded discussions, and additional exercises throughout the text.
- The game of Mastermind that appeared at the beginning of the first edition has been brought back to this edition.
- The chapter on formal languages and finite-state machines from the second edition is back in abbreviated form.
- New material added including: chromatic polynomials, the transportation problem, and NP-completeness.

Contents: PART ONE: GRAPH THEORY; Elements of Graph Theory; Covering Circuits and Graph Coloring; Trees and Searching; Network Algorithms; PART TWO: ENUMERATION; General Counting Methods For Arrangements and Selections; Generating Functions; Recurrence Relations; Inclusion-Exclusion; PART THREE: ADDITIONAL TOPICS; Poly's Enumeration Formula; Computer Science Approaches to Enumeration; Games With Graphs

ISBN 13: 9780471735076 / ISBN 10: 0471735078
480pp December 2006 Cl

Integer Programming

LAURENCE A. WOLSEY, *Center for Operations Research and Econometrics, Louvain-la-Neuve, Belgium*

Integer Programming stands out from other textbooks by explaining in clear and simple terms how to construct custom-made algorithms or use existing commercial software to obtain optimal or near-optimal solutions for a variety of real-world problems, such as airline timetables, production line schedules, or electricity production on a regional or national scale.

Integer Programming is an ideal text for courses in integer/mathematical programming – whether in operations research, mathematics, engineering, or computer science departments.

Contents: Formulations. Optimality, Relaxation, and Bounds. Well-Solved Problems. Matchings and Assignments. Dynamic Programming. Complexity and Problem Reductions. Branch and Bound. Cutting Plane Algorithms. Strong Valid Inequalities. Lagrangian Duality. Column Generation Algorithms. Heuristic Algorithms. From Theory to Solutions. References. Index.

ISBN 13: 9780471283669 / ISBN 10: 0471283665
282pp 1998 Hb

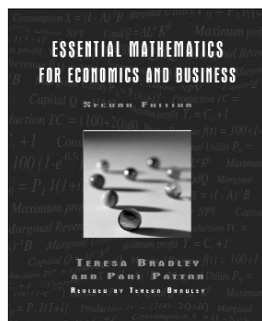


Mathematics For Business & Economics

Essential Mathematics for Economics and Business

2ND EDITION

TERESA BRADLEY, *Limerick Institute of Technology, Ireland* and P. PATTON, *Limerick Senior College, Ireland*



Essential Mathematics for Economics and Business has become established as one of the leading introductory textbooks on mathematics for students of these subjects. It combines a non-rigorous approach to mathematics with applications in economics and business. The fundamental mathematical concepts are explained as simply and briefly as possible, using a wide selection of worked examples, graphs and real-world applications.

Features:

- This second edition includes new material on important topics such as currency conversion, annuities, debt repayment, sinking funds, integration by algebraic substitutions, integration by parts, solution of equations, Gaussian elimination, and Excel for linear algebra.
- Sections on the following topics have been rewritten in a clearer and more accessible style: the straight line, some applications of translations, exponential functions, hyperbolic functions, optimisation of functions of one variable, and the inverse matrix.
- A website has been developed that contains supplementary material for lecturers, as well as additional material for students.

Contents: Mathematical preliminaries; The straight line and applications; Simultaneous equations; Non-linear functions and applications; Financial Mathematics; Introduction to differentiation and applications; Functions of several variables; Integration and applications; Linear algebra and applications; Difference equations; Solutions to progress exercises.

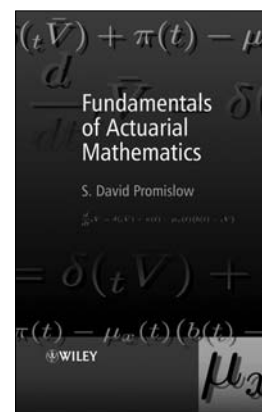
Supplements: Instructor's Manual and PowerPoint Slides

www.wileyeurope.com/college/bradley

ISBN 13: 9780470844663 / ISBN 10: 0470844663
656pp 2002 Pr

Fundamentals of Actuarial Mathematics

S. DAVID PROMISLOW, *York University, Toronto, Canada*



This unique introduction to the topic employs both a deterministic and stochastic treatment of the subject. It combines interest theory and life contingencies in a unified manner as well as covering basic risk theory. *Fundamentals of Actuarial Mathematics* presents the concepts in an original, accessible style, assuming a minimal formal background.

Features:

- Basic introduction to actuarial mathematics
- Covers all the material on the modeling examinations of the Society of Actuaries and the Casualty Actuarial Society (SOA exam M and CSA exam 3)
- Takes a deterministic approach to allow the student to master new concepts and notation in as simple a setting as possible
- Includes modern methods and computational techniques such as Martingale stochastic processes and spreadsheets
- Written by a well-respected academic with extensive teaching experience
- Includes exercises and solutions, enabling use for self-study or as a course text
- Supported by a Website featuring full solutions to exercises, further examples, Excel spreadsheets

Contents: Preface; Notation index; PART I: THE DETERMINISTIC MODEL; Introduction and motivation; The basic deterministic model; The life table; Life annuities; Life insurance; Insurance and annuity reserves; Fractional durations; Continuous payments; Select mortality; Multiple-life contracts; Multiple-decrement theory; Expenses; PART II: THE STOCHASTIC MODEL; Survival distributions and failure times; The stochastic approach to insurance and annuities; Simplifications under constant benefit contracts; The minimum failure time; PART III: RISK THEORY; Compound distributions; An introduction to stochastic processes; Poisson processes; Ruin models; Appendix: A review of probability theory; Answers to exercises; References; Index

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424pp Winter 2005 Cl

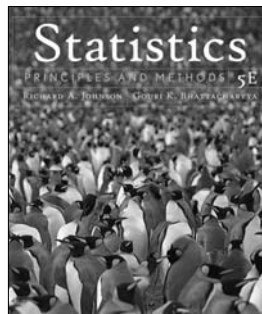
General & Introductory Statistics & Probability

NEW

Statistics

Principles and Methods,
5TH EDITION

RICHARD A. JOHNSON,
University of Wisconsin, Madison



Statistics: Principles and Methods is known for its clear and concise, statistically accurate discussions that constantly probe beyond the procedures to teach the reader the reasoning behind a method. The author discusses the assumptions that all statistical models make and motivates discussions using real-life examples. The new fifth edition retains these classic features that readers have respected for years while incorporating additional exercises, updated data and new end-of-chapter technology sections.

Features

- A comprehensive, accurate introduction to statistics.
- Highlights important concepts and methods that are essential for learning statistics.
- Provides new end-of-chapter technology sections for TI-83 and MINITAB.
- Presents information on MINITAB, TI, SPSS and SAS, including keystroke instructions.
- Incorporates numerous illustrations that provide a real-world context for the material.

Contents: Introduction; Organization and Description of Data; Descriptive Study of Bivariate Data; Probability; Probability Distributions; The Normal Distribution; Variation in Repeated Samples-Sampling Distribution; Drawing Inferences From Large Samples; Small-Sample Inferences for Normal Populations; Comparing Two Treatments; Regression Analysis; Regression Analysis- II; Analysis of Categorical Data; Analysis of Variance (ANOVA)

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Bayesian analysis of mixture of autoregressive components with an application to financial market volatility,

By Stefano Sampietro

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Applications of Hilbert-Huang transform to non-stationary financial time series analysis,

By Norden E. Huang, Man-Li Wu, Wendong Qu, Steven R. Long, Samuel S. P. Shen

Applied Stochastic Models in Business and Industry, Vol. 19, Issue 3

Continuous-time stochastic modelling of capital adequacy ratios for banks,

By Casper H. Fouche, J. Mukkdem-Petersen, M. A. Petersen

Applied Stochastic Models in Business and Industry, Vol. 22, Issue 1

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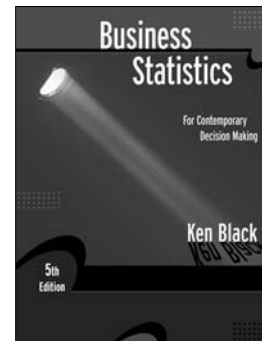
97805

FORTHCOMING

Business Statistics

Contemporary Decision Making
5TH EDITION

KEN BLACK, *University of Houston, Clear Lake, USA*



Black makes the concepts of statistics much easier to understand by presenting them in the setting of business decision-making. This includes the use of real world examples, real business data and applications. The fifth edition has also been substantially revised and reorganized in order to group similar approaches, topics, and techniques more closely together. Each chapter offers a brief discussion about how the material fits into the larger scheme.

New to this Edition:

- Includes a new section on using regression to forecast time-series data.
- Groups most of the statistical inferential techniques together to clearly show how to apply the material.
- Updates the numerous case studies and decision dilemmas to reflect the latest information in the field.
- Adds new material that clarifies how to interpret p-values.
- Incorporates new Minitab Version 14 computer output and directions.

Brief Contents: Part I - Introduction; Chapter 1 Introduction to Statistics Chapter 2 Charts and Graphs; Chapter 3 Descriptive Statistics Chapter 4 Probability; Part II - The Distributions; Chapter 5 Discrete Distributions; Chapter 6 Continuous Distributions; Chapter 7 Sampling and Sampling Distributions; Part III - Making Inferences about Population Parameters; Chapter 8 Statistical Inference: Estimation for Single Populations Chapter 9 Statistical Inference: Hypothesis Testing for Single Populations Chapter 10 Statistical Inferences about Two Populations; Chapter 11 Analysis of Variance and Design of Experiments; Chapter 12 Analysis of Categorical Data Chapter 13 Nonparametric Statistics; Part IV - Regression, Forecasting, and Quality: Relationships, Prediction, and Process Improvement; Chapter 14 Simple Regression Analysis; Chapter 15 Multiple Regression Analysis Chapter 16 Building Multiple Regression Models; Chapter 17 Time-Series Forecasting and Index Numbers; Chapter 18 Statistical Quality Control Chapter 19 Decision Analysis (online only)

ISBN 13: 9780471789567 / ISBN 10: 0471789569
869pp Spring 2007 Hb

This title has WileyPLUS, a powerful suite of resources, including a full on-line version of the text. Please see page 1 for further information about WileyPLUS and how to access a demo.

General & Introductory Statistics & Probability

NEW

Six Sigma Quality Improvement with Minitab

GEORGE R. HENDERSON, *Napier University, UK*

Although there are many texts available on statistical methods for the monitoring and improvement of quality, none focus on the use of Minitab. In this unique book the development of the topics are integrated with the application of Minitab, either to apply the statistical tools or as an aid to gaining better understanding of the tools.



This is the first book to focus on the use of Minitab as a statistical methods for the monitoring and improvement of quality, Six Sigma Quality Improvement with Minitab 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:

- Introduction to key statistical methods for quality improvement using Minitab.
- Easy-to-use guidance for practitioners.
- Use of random data generation in Minitab to aid understanding of important statistical concepts.
- Provision of informative follow-up exercises on each topic.
- Minimal prior knowledge of statistical methods and no prior knowledge of Minitab assumed.
- Borne out of the author's many years experience working as a consultant.
- Supported by a Web site featuring full data sets and extra computer code.
- Complementary to text to books such as Douglas Montgomery's Introduction to Statistical Quality Control.

Contents: Foreword; Preface; About the author; Introduction; Introduction to MINITAB, data display, summary and manipulation; Exploratory data analysis, display and summary of multivariate data; Statistical models; Control charts; Process capability analysis; Process experimentation with a single factor; Process experimentation with two or more factors; Evaluation of measurement processes; Regression and model building; More about MINITAB; Appendices; References; Index

Please visit: www.wileyeurope.com/college/henderson for more information and additional resources (where available)

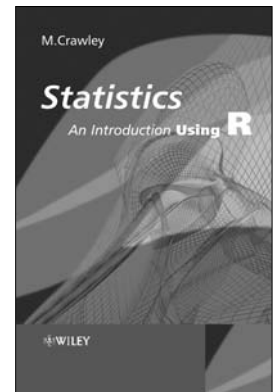
ISBN 13: 9780470011560 / ISBN 10: 0470011564
452pp February 2006 Pr

Statistics

An Introduction using R

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

"...I know of no better book of its kind..."
- (Journal of the Royal Statistical Society, Vol 169 (1), January 2006)



Computer software is an essential tool for many statistical modelling and data analysis techniques, aiding in the implementation of large data sets in order to obtain useful results. R is one of the most powerful and flexible statistical software packages available, and enables the user to apply a wide variety of statistical methods ranging from simple regression to generalized linear modelling. *Statistics: An Introduction using R* is a clear and concise introductory textbook to statistical analysis using this powerful and free software, and follows on from the success of the author's previous best-selling title Statistical Computing.

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.
- Covers the full range of statistical techniques likely to be need to analyse the data from research projects, including elementary material like t-tests and chi-squared tests, intermediate methods like regression and analysis of variance, and more advanced techniques like generalized linear modelling.
- Includes numerous worked examples and exercises within each chapter.
- Accompanied by a website featuring worked examples, data sets, exercises and solutions:

Contents: Introduction to Statistics; Descriptive Charts and Graphs; Descriptive Statistics; Probability; Discrete Distributions; Continuous Distributions; Sampling and Sampling Distributions; Statistical Inference: Estimation for Single Populations; Statistical Inference: Hypothesis Testing for Single Populations; Statistical Inferences about Two Populations; Analysis of Variance and Design of Experiments; Analysis of Categorical Data; Simple Regression Analysis; Multiple Regression Analysis; Building Multiple Regression Models; Time Series Forecasting and Index Numbers; Nonparametric Statistics; Statistical Quality Control; Decision Analysis; Appendix A: Tables; Appendix B: Answers to Selected Odd-Numbered Quantitative Problems; Appendix C: References; Glossary; Index

Please visit: www.wileyeurope.com/college/crawley for more information and additional resources (where available)

ISBN 13: 9780470022986 / ISBN 10: 0470022981
342pp March 2005 Pr

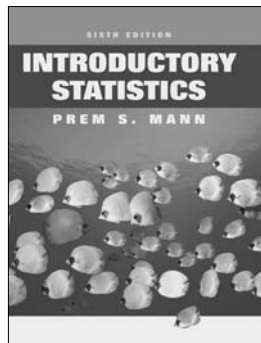
General & Introductory Statistics & Probability

NEW

Introductory Statistics

6TH EDITION

PREM S. MANN,
Eastern Connecticut
State University



"This is a very well-written book on basic concepts of statistics. It is very suitable for quantitative course especially at the undergraduate level. The book has many examples to demonstrate the concepts which make it easy for students to grasp the way statistical methods work in practice."

- Amir Parsian, University of Illinois, Springfield

Through five previous editions, Introductory Statistics has made statistics both interesting and accessible to a wide and varied audience. The realistic content of its 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. Now this bestseller is available in a new 6th edition.

New to This Edition:

- Many data sets and a large number of examples and exercises have been revised and updated with current data.
- Technology sections at the end of each chapter with separate subsections covering the use of Excel, MINITAB, and the TI-84 have been updated. Each section includes step-by-step keystroke instructions and appropriate screen displays. Technology assignments are also provided.
- New "Decide for Yourself" feature allows students to apply what they've learned and make decisions in real-life scenarios.
- New Chapter 14 on Multiple Regression has been added. This chapter is available on the text's accompanying website, which can be accessed at: www.wiley.com/college/mann
- Chapter 15 on Nonparametric Methods is now available on the text's same website.

Contents: Introduction; Organizing Data; Numerical Descriptive Measures; Probability; Discrete Random Variable & Their Probability Distributions; Continuous Random Variables and the Normal Distribution; Sampling Distributions; Estimation of the Mean and Proportion; Hypothesis Tests About the Mean and Proportion; Estimation & Hypothesis Testing: Two Populations; Chi Square Tests; Analysis of Variance; Simple Linear Regression; Multiple Regression-On Website Only; Nonparametric Methods- On Website Only; Appendix A: Sample Surveys, Sampling Techniques, and Design Experiments; Appendix B: Explanation of Data Sets; Appendix C: Statistical Tables

Supplements: Instructor's Resource Guide; Instructor's Solutions Manual; Test Bank

Please visit: www.wileyeurope.com/college/mann
for more information and additional resources (where available)

ISBN 13: 9780471755302 / ISBN 10: 0471755303
816pp Spring 2006 Cl

Introductory Statistics

5TH EDITION

R.J. WONNACOTT and T.H. WONNACOTT, both of University of Western Ontario

With the objective of making statistics lively, practical and clear, Introductory Statistics is an introduction to statistics for students with a wide variety of backgrounds, from social science to engineering and statistics itself. Throughout the book, examples are used to introduce new material and the general theory is presented only after the student has gained a clear, intuitive idea of the concept.

Contents: BASIC PROBABILITY AND STATISTICS: The Nature of Statistics; Descriptive Statistics; Probability; Probability Distributions; Two Random Variables; INFERENCE FOR MEANS AND PROPORTIONS: Sampling; Point Estimation; Confidence Intervals; Hypothesis Testing; Analysis of Variance (ANOVA); REGRESSION: RELATING TWO OR MORE VARIABLES: Fitting a Line; Simple Regression; Multiple Regression; Regression Extensions; Correlation; TOPICS IN CLASSICAL AND BAYESIAN INFERENCE: Nonparametric and Robust Statistics; Chi-Square Tests; Maximum Likelihood Estimation; Bayesian Inference; Bayesian Decision Theory; Appendices; Index.

Supplements: Teacher's Manual

ISBN 13: 9780471615187 / ISBN 10: 0471615188
728pp 1990 Hb

Bayesian Analysis

Applied Data Mining

Statistical Methods for Business and Industry

PAOLO GIUDICI, University of Pavia, Italy

"The extremely well written book by Paolo Giudici is important and useful, in this computer intensive age, to analyze and interpret massive data using data mining tools."

- (Journal of Statistical Computation and Simulation, February 2005)

Features:

- A solid introduction to applied data mining methods in a consistent statistical framework
- Coverage of classical, multivariate and Bayesian statistical methodology
- Many recent developments such as web mining, sequential Bayesian analysis and memory based reasoning
- Each statistical method described is illustrated with real life applications
- A number of detailed case studies based on applied projects within industry
- A discussion on software used in data mining, with particular emphasis on SAS
- Accessible to anyone with a basic knowledge of statistics - unnecessary formalisms and mathematics are avoided
- Supported by a website featuring data sets, software and additional material
- An extensive bibliography and pointers to further reading within the text

Contents: Introduction; Part I Methodology; Organisation of the data; Exploratory data analysis; Computational data mining; Statistical data mining; Evaluation of data mining methods; Part II Business cases; Market basket analysis; Web clickstream analysis; Profiling website visitors; Customer relationship management; Credit scoring; Forecasting television audience; Bibliography; Index.

Readership: Advanced undergraduate and graduate students of applied statistics, data mining, computer science and economics.

ISBN 13: 9780470846797 / ISBN 10: 0470846798
376pp 2003 Pr

Statistics in Engineering

FORTHCOMING

Engineering Statistics,

4TH EDITION

DOUGLAS C. MONTGOMERY, *Georgia Institute of Technology*;
 GEORGE C. RUNGER, *Rensselaer Polytechnic Institute*,
 NORMA FARIS HUBELE

Focusing on how statistics can benefit the engineering problem-solving process, this book presents a wide range of techniques and methods that engineers will find useful in professional practice. 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.

- Many new examples and exercises based on real-world applications of statistics in engineering.
- Expanded coverage of functions of random variables, transmission of error, and measurement systems capability analysis – important topics for all engineers.
- Integrates Minitab throughout the book and in many example solutions.
- Shows how software is used in real-world engineering applications of statistics.

Please visit: www.wileyeurope.com/college/montgomery for more information and additional resources (where available)

ISBN 13: 9780471735571 / ISBN 10: 0471735574
 496pp January 2007 CI

Fundamentals of Probability and Statistics for Engineers

T.T. SOONG, *State University of New York at Buffalo*

"...a good introduction to the ideas of probability and statistics...I would recommend it to anyone as a reference for basic theory..."
 – (Journal of Applied Statistics, Vol 32 (6) August 2005)

Although there are already a number of titles available on the general topic of 'probability and statistics for engineers and scientists', this textbook differs in that it has been prepared very much with students and their needs in mind, having been classroom tested over many years. It is a true "learner's book" made for students who require a deeper understanding of probability and statistics, and presents the fundamentals of the subject along with concepts of probabilistic modelling, and the process of model selection, verification and analysis.

Contents: Preface; Introduction; Part A: Probability and Random Variables; Basic Probability Concepts; Random Variables and Probability Distributions; Expectations and Moments; Functions of Random Variables; Some Important Discrete Distributions; Some Important Continuous Distributions; Part B: Statistical Inference, Parameter Estimation, and Model Verification; Observed Data and Graphical Representation; Parameter Estimation; Model Verification; Linear Models and Linear Regression; Appendix A: Tables; Appendix B: Computer Software; Appendix C: Answers to the Selected Problems; Subject Index

Please visit: www.wileyeurope.com/college/soong for more information and additional resources (where available)

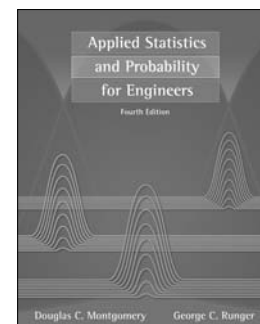
ISBN 13: 9780470868140 / ISBN 10: 0470868147
 406pp 2004 Pr

NEW

Applied Statistics and Probability for Engineers

4TH EDITION

DOUGLAS C. MONTGOMERY,
Arizona State University



This book provides modern coverage of engineering statistics, focusing on how statistical tools are integrated into the engineering problem-solving process. All major aspects of engineering statistics are covered, 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. Developed with sponsorship from the National Science Foundation, this revision incorporates many insights from the authors' teaching experience along with feedback from numerous adopters of previous editions.

New to this Edition

- 25% new homework Exercises:
- Even more varied background for problems (including EE, CS, bioengineering), and more real data/real sources.
- Both simpler and more difficult problems, organized based on level of difficulty.
- Students are asked to select and/or critique the method for solving a problem.
- Students are asked to analyze and interpret the results, and make a recommendation.
- More computer problems.
- Bayes' Theorem is highlighted more.
- Binomial distribution is included in the text.
- One-sided confidence intervals are highlighted more.

Contents: The Role of Statistics in Engineering; Data Summary and Presentation; Random Variables and Probability Distributions; Decision Making for a Single Sample; Decision Making for Two Samples; Building Empirical Models; Design of Engineering Experiments; Statistical Quality Control

Supplements: Complete worked out solutions in Word and pdf file format and digital data sets are provided. PowerPoint slides for all text chapters.

Please visit: www.wileyeurope.com/college/montgomery for more information and additional resources (where available)

ISBN 13: 9780471745891 / ISBN 10: 0471745898
 768pp June 2006 CI

Statistics in Engineering

Statistical Pattern Recognition

2ND EDITION

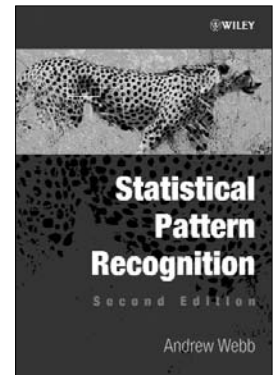
ANDREW WEBB, *QinetiQ Ltd*

This text provides an introduction to statistical pattern theory and techniques, with material drawn from a wide range of fields, including the areas of engineering, statistics, computer science and the social sciences. It provides a valuable link between the application areas – such as database design, artificial neural networks, and decision support – and the more diverse theoretical topics available to the practitioner or researcher. Each section concludes with a description of the wide range of practical applications that have been addressed and the further developments of theoretical techniques.

Contents: Preface. Notation. Introduction to statistical pattern recognition. Density estimation – parametric. Density estimation – nonparametric. Linear discriminant analysis. Nonlinear discriminant analysis – kernel methods. Nonlinear discriminant analysis – projection methods. Tree-based methods. Performance. Feature selection and extraction. Clustering. Additional topics. Appendix A: Measures of dissimilarity. Appendix B: Parameter estimation. Appendix C: Linear algebra. Appendix D: Data. Appendix E: Probability theory. References. Index.

Please visit: www.wileyeurope.com/college/webb
for more information and additional resources (where available)

ISBN 13: 9780470845141 / ISBN 10: 0470845147 514pp 2002 Pr



Econometrics

A Guide to Modern Econometrics

2ND EDITION

MARNO VERBEEK, *University of Leuven*

The first edition of *A Guide to Modern Econometrics* has become established as a successful textbook in a crowded and competitive market. Its focus on exploring alternative techniques, combined with a practical emphasis, has been appreciated by many readers. In this new edition, Marno Verbeek will build on the strengths of the first edition and bring the text completely up-to-date.

Contents: Introduction; An Introduction to Linear Regression; Interpreting and Comparing Regression Models; Heteroskedasticity and Autocorrelation; Endogeneity, Instrumental Variable and GMM; Maximum Likelihood Estimation and Specification Tests; Models with Limited Dependent Variables; Univariate Time Series Models; Multivariate Time Series Models; Models Based on Panel Data; Appendices: Vectors and Matrices; Statistical and Distribution Theory.

Please visit: www.wileyeurope.com/college/verbeek
for more information and additional resources (where available)

ISBN 13: 9780470857731 / ISBN 10: 0470857730 448pp 2004 Pr

Undergraduate Econometrics

2ND EDITION

R. CARTER HILL, *Louisiana State University*, WILLIAM GRIFFITHS, *University of New England*, GEORGE JUDGE, *University of California, Berkeley*

A short and focussed introduction to econometrics which demonstrates results in a simple manner, and presents algebra and proofs so instructors can choose to include or exclude them. Simple practical examples are used to illustrate and motivate techniques.

Contents: An Introduction to Econometrics; Some Basic Probability Concepts; The Simple Linear Regression Model: Specification and Estimation; Properties of the Least Squares Estimators; Inference in the Simple Regression Model: Interval Estimation; Hypothesis Testing, and Prediction; The Simple Linear Regression Model: Reporting the Results and Choosing the Functional Form; The Multiple Regression Model; Further Inference in the Multiple Regression Model; Dummy (Binary) Variables; Nonlinear Models; Heteroskedasticity. Autocorrelation; Random Regressors and Moment Based Estimation; Simultaneous Equations; Distributed Lag Models; Regression with Time Series Data; Pooling Time-Series and Cross-Sectional Data; Qualitative and Limited Dependent Variable Models; Writing and Empirical Research Report, and Sources of Economic Data.

Supplements: Instructor's CD; Solutions to exercises; Transparency Masters.

Please visit: www.wileyeurope.com/college/hill
for more information and additional resources (where available)

ISBN 13: 9780471331841 / ISBN 10: 0471331848
416pp 2000 Pr

Econometrics

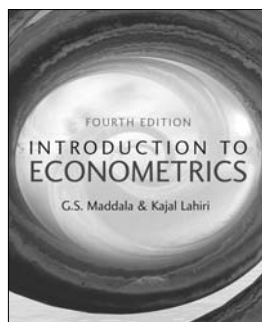
NEW

Introduction to Econometrics

4TH EDITION

KAJAL LAHIRI, *State University of New York and G. S. MADDALA, Formerly Ohio State University*

The word "econometrics" literally means "measurement in economics." A revision of the landmark text, *Introduction to Econometrics* offers, in its new fourth edition, a fresh accessible, and well-written introduction to the subject. With a rigorous pedagogical framework, which sets it apart from comparable texts, the book also includes such Web-based supplements as an instructor's manual and data sets.



New to This Edition:

- Chapter 5 on heteroskedasticity has been revised to reflect the consensus that the econometrics profession has reached on the appropriate treatment of heteroskedasticity in practical situations. A recent empirical example including a health data set has been provided.
- Chapter 9 on simultaneous equations models has been modernized with more discussion on current empirical examples, the role of the instrumental variables (their relevance and exogeneity), tests of simultaneity, and sources of instruments in practice.
- Chapter 16 has been incorporated as part of chapter 10 on nonlinear regressions. The discussion on models of expectations, distributed lag models, and rational expectations in chapter 10 has been removed to form a separate chapter.
- A more practical emphasis on forecasting and business cycle analysis has been placed in chapters 13 and 14 on time series analysis.
- Chapter 15 on panel data analysis has been rewritten more thoroughly with a number of empirical examples worked out in the text. There is a list of exercises, both mathematical and empirical, at the end of the chapter.
- Chapter 17 on small sample inference and resampling methods has been expanded to include a number of actual examples to illustrate how the resampling and bootstrap techniques work. Also, a number of exercises has been included at the end of this chapter.

Features:

- Thorough revision of one of the leading international textbooks on econometrics.
- A fresh, accessible and well-written introduction to econometrics.
- A pedagogical framework, which sets it apart from its competitors.
- Contains a large number of worked examples.
- Kajal Lahiri is ideally placed to revise the text as he was one of G.S. Maddala's closest colleagues and has used the book for many years.

Contents: Foreword; Preface; Part I: Introduction and the Linear Regression Model; What is Econometrics; Statistical Background and Matrix Algebra; Simple Regression; Multiple Regression; Part II: Violation of the Assumptions of the Basic Model; Heteroskedasticity; Autocorrelation; Multicollinearity; Dummy Variables and Truncated Variables; Simultaneous Equations Models; Non-Linear Regressions, Nonnormality and Large-Sample Theory; Models of Expectations, Distributed Lag Models and Rational Expectations; Errors in Variables; Part III: Special Topics; Diagnostic Checking, Model Selection and Specification Testing; Introduction to Time Series Analysis; Vector Autoregressions, Unit Roots and Cointegration; Panel Data Analysis; Small-Sample Inference: Resampling Methods; Appendices; Index

Please visit: www.wileyeurope.co.uk/maddala for more information and additional resources (where available)

ISBN 13: 9780470015124 / ISBN 10: 0470015128
672pp December 2006 Pr

Applied Econometric Time Series

2ND EDITION

WALTER ENDERS, *University of Alabama*

Assuming only a basic understanding of multiple regression analysis, Walter Enders's accessible introduction to time-series analysis shows how to develop models capable of forecasting, interpreting, and testing hypotheses concerning economic data using modern techniques. This new edition reflects recent advances in time-series econometrics, such as out-of-sample forecasting techniques, nonlinear time-series models, Monte Carlo analysis, and bootstrapping. Numerous examples from fields ranging from agricultural economics to transnational terrorism illustrate various techniques.

Contents: Difference Equations; Stationary Time-Series Models; Modeling Volatility ; Testing for Trends and Unit Roots; Multiequation Time-Series Models; Cointegration and Error-Correction Models; Nonlinear time-series models; Statistical Tables; References; Indexes

Supplements: Instructor's manual

Please visit: www.wileyeurope.com/college/enders for more information and additional resources (where available)

ISBN 13: 9780471230656 / ISBN 10: 0471230650
460pp 2003 Hb

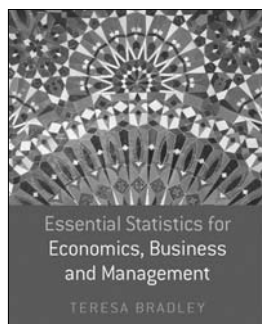
Statistics in Business & Economics

FORTHCOMING

Essential Statistics for Economics, Business and Management

TERESA BRADLEY, *Limerick Institute of Technology*

Essential Statistics for Economics, Business and Management is aimed at introductory undergraduate courses and assumes no prior knowledge of statistics. It will also be highly relevant for the statistics component of courses in quantitative methods. The style of the text is similar to that of the highly successful Essential Mathematics for Economics and Business by Teresa Bradley and Paul Patton, with many worked examples integrated throughout.



Features:

- Emphasis is placed on verbalising concepts, problems and results of statistical analysis. This will help students learn how to start a problem, complete the calculations, and report the results in a way that makes sense to a non-statistician.
- Each concept is introduced with a brief but plausible explanation followed by Worked Examples. The Worked Examples will provide students with the necessary practice that they need in order to succeed at the subject.
- Emphasis is also placed on 'learning through doing' problems. Excel is used to encourage students in doing problems and to enhance understanding (with links to datasets online). Minitab printouts are also included in the text.
- Skills Development Exercises with brief solutions are included within the chapters, and Progress Exercises on theory and applications are provided at the end of each chapter. Solutions to all the worked examples and progress exercises are available as an appendix.
- Web-based supplementary materials will be provided for lecturers adopting the text, including additional exercises and solutions, excel datasets and exercises, powerpoint slides with key formula, figures and tables. Students can access an online glossary and weblinks.

Contents: Introduction; Descriptive statistics I: Data collection; summary statistics; measures of dispersion; graphical presentation; Descriptive statistics II: Regression and correlation; rank correlation; Time Series; Index numbers; Probability I: Axioms of probability; independent, mutually exclusive and dependent events; AND and OR rules; Baye's Theorem; Probability II: Probability distributions; Empirical univariate and bivariate distributions; Probability distributions; Discrete uniform; Binomial; Poisson Continuous; Normal; Exponential; Functions of random variables; Expected values, means; variance; covariance; Sums and difference of normal independent random variables; Part II: Statistical Inference; Populations and samples; point estimators; desirable properties of point estimators; central limit theorem; sampling distributions of means and proportions. Confidence intervals; Means; difference between means (paired and independent samples) based on large and small samples; Proportions and difference between proportions; Variance; Basic control charts for means; Tests of Hypothesis for means, proportions, difference between means, difference between proportions, variance, equality of variance; Type I and Type II errors; p-values; Power of a test; OC curve; Chi-squared tests; equality of several proportions; goodness of fit; independence; homogeneity of two or more populations; Regression and correlation analysis; simple linear regression model; tests for linear relationship; confidence intervals; Analysis of variance; One-way analysis; two-way analysis with and without interaction; simultaneous confidence intervals; Use of calculators; Excel; Minitab; Sources of data; Industry; CSO; surveys

Please visit: www.wileyeurope.com/college/bradley for more information and additional resources (where available)

ISBN 13: 9780470850794 / ISBN 10: 0470850795 512pp Jan 2007 Pr

Applied Data Mining

Statistical Methods for Business and Industry
PAOLO GIUDICI, *University of Pavia, Italy*

For details of this title please see page 17

ISBN 13: 9780470846797 / ISBN 10: 0470846798 376pp 2003 Pr

Introductory Statistics For Business and Economics

4TH EDITION

R.J. WONNACOTT and T. H. WONNACOTT, *both of University of Western Ontario*

This classic teaches via good organization, clarity of presentation, timely review and strong problems. The integrative presentation of topics encourages an intuitive understanding of each statistical technique and analytical objective before moving on to formulae, examples and problem sets. Also included are 700 exercises.

Contents: Basic Probability and Statistics; Inference for Means and Proportions; Regression: Relating Two or More Variables; Topics in Classical and Bayesian Inference; Special Topics for Business and Economics.

Supplements: Teacher's Manual.

ISBN 13: 9780471615170 / ISBN 10: 047161517X 832pp 1990 Hb
Workbook

ISBN 13: 9780471508991 / ISBN 10: 0471508993 314pp 1990 Pr

Financial Derivatives in Theory and Practice

REVISED EDITION

PHILIP HUNT, *Westdeutsche Landesbank Girozentrale, London, UK*, JOANNE KENNEDY, *University of Warwick, UK*

The term Financial Derivative is a very broad term which has come to mean any financial transaction whose value depends on the underlying value of the asset concerned. Sophisticated statistical modelling of derivatives enables practitioners in the banking industry to reduce financial risk and ultimately increase profits made from these transactions.

The book originally published in March 2000 to widespread acclaim. This revised edition has been updated with minor corrections and new references, and now includes a chapter of exercises and solutions, enabling use as a course text.

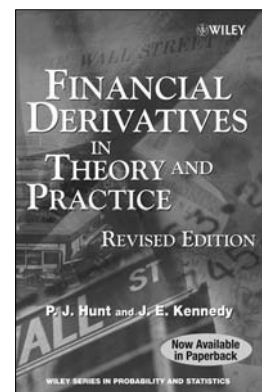
Features:

- Comprehensive introduction to the theory and practice of financial derivatives.
- Discusses and elaborates on the theory of interest rate derivatives, an area of increasing interest.
- Divided into two self-contained parts – the first concentrating on the theory of stochastic calculus, and the second describes in detail the pricing of a number of different derivatives in practice.
- Written by well respected academics with experience in the banking industry.
- Now includes a new chapter of exercises and solutions, enabling use for self-study or as a course text.
- Text has been updated with new references and many corrections.

Contents: Preface to revised edition; Preface; Acknowledgements; Part I: Theory; Single-Period Option Pricing; Brownian Motion; Martingales; Stochastic Integration; Girsanov and Martingale Representation; Stochastic Differential Equations; Option Pricing in Continuous Time; Dynamic Term Structure Models; Part II: Practice; Modelling in Practice; Basic Instruments and Terminology; Pricing Standard Market Derivatives; Futures Contracts; Terminal Swap-Rate Models; Convexity Corrections; Implied Interest Rate Pricing Models; Multi-Currency Terminal Swap-Rate Models; Orientation: Pricing Exotic American and Path-Dependent Derivatives; Short-Rate Models; Market Models; Markov-Functional Modelling; Exercises and Solutions; Appendix 1: The Usual Conditions; Appendix 2: L2 Spaces; Appendix 3: Gaussian Calculations; References; Index

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Statistics in Life Science & Healthcare

FORTHCOMING

Medical Statistics:

A Commonsense Approach for Health Professionals
4TH EDITION

MICHAEL J. CAMPBELL: *University of Sheffield, UK*

Provides students and practitioners with a clear, concise introduction to the statistics they will come across in their regular reading of clinical papers. Written by three experts with wide teaching and consulting experience *Medical Statistics: A Commonsense Approach*, fourth edition:

- 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.

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ISBN 13: 9780470025192 / ISBN 10: 0470025190
256pp January 2007 Pr

Practical Statistics for Field Biology

2ND EDITION

J. FOWLER, *DeMontfort University and*
L. COHEN, *Loughborough University of Technology*

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.

Contents: Introduction; Measurement and Sampling Concepts; Processing Data; Presenting Data; Measuring the Average; Measuring Variability; Probability; Probability Distributions as Models of Dispersion; The Normal Distribution; Data Transformation; How Good Are Our Estimates?; The Basis of Statistical Testing; Analysing Frequencies; Measuring Correlations; Regression Analysis; Comparing Averages; Analysis of Variance - ANOVA; Multivariate Analysis; Appendices; Bibliography and Further Reading.

Please visit: www.wileyeurope.com/college/fowler for more information and additional resources (where available)

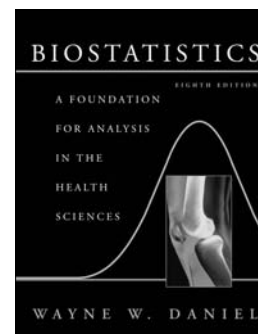
ISBN 13: 9780471982968 / ISBN 10: 0471982962
270pp 1998 Pr

Biostatistics

A Foundation for Analysis in the Health Sciences,
8TH EDITION

WAYNE W. DANIEL, *Georgia State University*

This classic text takes an applied and computer-oriented approach to its topical coverage. Nearly all the examples and exercises make use of real data from actual research projects and reports from health sciences literature. Where appropriate, Minitab, SPSS and SAS commands and printouts are included as part of the examples and solutions to exercises.



New to This Edition:

- All data integrated within the exposition, examples and exercises have been updated and/or revised to ensure student relevance and currency. All references to data on or before 1996 have been removed, so that all remaining data will be from 1997-2004.
- 40% of exercises and problems are new and updated.
- New Student Solutions Manual available for the first time with the 8th edition.
- Extensive data from 350 actual research projects and findings reported in health sciences literature are the basis for a large proportion of the examples and exercises, making the text more relevant to health science students.
- Minitab, SAS commands and printouts are presented in the form of dialog boxes. The dialog boxes also contain the session commands that may be entered from the keyboard if Windows is not used.
- Large data sets are available online.

Contents: Introduction to Biostatistics. Descriptive Statistics. Some Basic Probability Concepts. Probability Distributions. Some Important Sampling Distributions. Estimation. Hypothesis Testing. Analysis of Variance. Simple Linear Regression and Correlation. Multiple Regression and Correlation. Regression Analysis—Some Additional Techniques. The Chi-Square Distribution and the Analysis of Frequencies. Nonparametric and Distribution-Free Statistics. Vital Statistics. Appendix: Statistical Tables. Answers to Odd-Numbered Exercises. Index.

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9265

Statistics in Life Science & Healthcare

Introduction to Statistics for Forensic Scientists

DAVID LUCY, *University of Edinburgh, UK*

"... deserves a place in the library of any serious forensic scientist and I congratulate the author on his achievement."

- (Significance, Issue 3, 2006)

Introduction to Statistics for Forensic Scientists

is an essential introduction to the subject, gently guiding the reader through the key statistical techniques used to evaluate various types of forensic evidence. Assuming only a modest mathematical background, the book uses real-life examples from the forensic science literature and forensic case-work to illustrate relevant statistical concepts and methods.

An invaluable introduction to the statistical interpretation of forensic evidence; this book will be invaluable for all undergraduates taking courses in forensic science.

Features:

- Includes end of chapter exercises to enhance student understanding
- Numerous examples taken from forensic science to put the subject firmly in context.
- Includes material on the evaluation of DNA evidence, fibres, drugs and the latest statistical techniques used in the field.

Contents: History and types of Data; Simple probability; The normal distribution; Testing between sample means; Conditional probability; Bayes' theorem and the value of evidence; Examples in the value of evidence; Errors in interpretation; DNA1; DNA II; Current developments in Forensic Statistics; A References; B. Worked answers to questions; C. The standard Normal distribution; D. Percentage points of t-distributions; E. 9-THC data

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ISBN 13: 9780470022016 / ISBN 10: 0470022019
266pp 2005 Pr

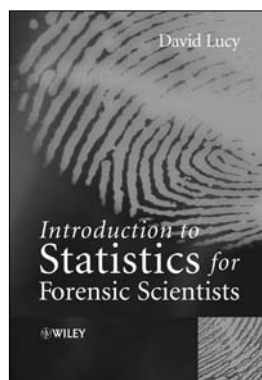
Practical Statistics and Experimental Design for Plant and Crop Science

ALAN CLEWER and DAVID SCARISBRICK, *both of Imperial College, at Wye, Kent*

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.

Contents: Introduction; Data Collection and Data Summary; The Normal Distribution and Confidence Intervals; Introduction to Hypothesis Testing; Comparison on Two Means; Two Variable Relationships; Comparison of Several Means; The Randomised Blocks and Latin Squares Designs; Analysis of Counts; Analysis of Covariance and the Comparison of Regression Lines; Factorial Experiments; Split-Plots Experiments; Repeated Measures and Nesting Designs; 2nd Experiments and Confounding; Incomplete Block Designs; Advanced Procedures; Bibliography; Answers to Exercises with Discussion; Statistical Tables; Computer Output.

ISBN 13: 9780471899099 / ISBN 10: 0471899097
344pp 2001 Pr



Analyzing Environmental Data

WALTER W. PIEGORSCH, *Dept of Statistics, University of South Carolina*, A. JOHN BAILER, *Dept of Mathematics & Statistics, Miami University, USA*

Environmental statistics is a rapidly growing field, supported by advances in digital computing power, automated data collection systems, and interactive, linkable Internet software. Concerns over public and ecological health and the continuing need to support environmental policy-making and regulation have driven a concurrent explosion in environmental data analysis. This textbook is designed to address the need for trained professionals in this area. The book is based on a course which the authors have taught for many years, and prepares students for careers in environmental analysis centered on statistics and allied quantitative methods of data evaluation. The text extends beyond the introductory level, allowing students and environmental science practitioners to develop the expertise to design and perform sophisticated environmental data analyses.

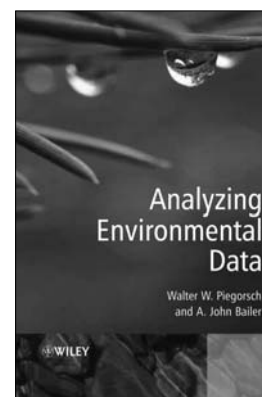
Features:

- Provides a coherent introduction to intermediate and advanced methods for modeling and analyzing environmental data.
- Takes a data-oriented approach to describing the various methods.
- Illustrates the methods with real-world examples
- Features extensive exercises, enabling use as a course text.
- Includes examples of SAS computer code for implementation of the statistical methods.
- Connects to a Web site featuring solutions to exercises, extra computer code, and additional material.
- Serves as an overview of methods for analyzing environmental data, enabling use as a reference text for environmental science professionals.

Contents: Preface. Linear regression. Nonlinear regression. Generalized linear models. Quantitative risk assessment with stimulus-response data. Temporal data and autoregressive modeling. Spatially correlated data. Combining environmental information. Fundamentals of environmental sampling. A. Review of probability and statistical inference. B. Tables.

Please visit: www.wileyeurope.com/college/piegorsch for more information and additional resources (where available)

ISBN 13: 9780470848364 / ISBN 10: 0470848367
512pp January 2005 Cl



Practical Statistics for Nursing and Health Care

JIM FOWLER and MEL CHEVANNES, *both of De Montfort University*, and PHILIP JARVIS, *Zeneca Pharmaceuticals*

"...provides clear explanations of the statistical concepts and illustrates these using relevant nursing scenarios..."

- (Practice Nurse, Friday 16 January, 2004)

Introduces statistical techniques in such a way that students will easily grasp the fundamentals enabling them to gain the confidence and understanding to perform their own analysis. The authors also give advice in areas such as clinical trials and epidemiology which will help students to critically appraise work published in medical journals.

Contents: Introduction; Health Care Investigations: Measurement and Sampling Concepts; Processing Data; Presenting Data; Clinical Trials; Introduction to Epidemiology; Measuring the Average; Measuring Variability; Probability and the Normal Curve; How Good are our Estimates?; The Basis of Statistical Testing; Analysing Frequencies; Measuring Correlations; Regression Analysis; Comparing Averages; Analysis of Variance - ANOVA; Appendices; Bibliography; Index

Please visit: www.wileyeurope.com/college/fowler for more information and additional resources (where available)

ISBN 13: 9780471497165 / ISBN 10: 0471497169
230pp 2002 Pr

Statistics in Life Science & Healthcare

FORTHCOMING

Medical Statistics

A Commonsense Approach

4TH EDITION

MIKE CAMPBELL, *University of Sheffield, and*

DAVID MACHIN, *National Cancer Centre, Singapore*

Many medical and health science students will have some knowledge of statistics when they take up their courses. However this knowledge is often general in nature and not relevant to the medical setting. *Medical Statistics: A Commonsense Approach, fourth edition* provides students and practitioners with a clear, readable introduction to the statistics they will come across in their regular reading of clinical papers. References to real examples and published papers are used throughout as part of the teaching element of the book. The book is mainly for "users" of research rather than "doers" of research. The book and revised chapters will retain its use as part of a teaching course on medical statistics.

Features:

- The statistics in this book is explained solely within the medical and health context and looks at the practical application of statistics and other quantitative methods to medicine and its applied sciences.
- 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*.
- Excellent layout of information, learning objectives, test questions and answers all serving to promote the book's proven effectiveness as a learning tool.

ISBN 13: 9780470025192 / ISBN 10: 0470025190
256pp January 2007 Pr

Medical Statistics from Scratch

2ND EDITION

DAVID BOWERS, *Nuffield Institute of Health*

This second edition will combine information from the original two books *Statistics from Scratch* and *Statistics Further from Scratch* to make one, comprehensive, user friendly guide to elementary statistics. Material from the earlier books will be reworked to make it sharper creating very high quality content that is easily accessible to the reader.

Contents: Preface. Part I : Some Fundamental Stuff; Part II: Describing Data; Part III: Getting the Data; Part IV: From Little to Large: Statistical Inference; Part V: The Informed Guess: Confidence Interval Estimation; Part VI: Putting it to the Test; Part VII: Getting Up Close; Part VIII: Getting Up Close; Part VIII: Getting into a Relationship; Appendix: Table of Random Numbers. Bibliography. Index.

ISBN 13: 9780470844748 / ISBN 10: 0470844744
218pp 2002 Pr

Statistics in Social Sciences

NEW

SPSS:

Analysis without anguish using SPSS version 13.0 for Windows

SHERIDAN J. COAKES, *Coakes Consulting, Sydney*

This latest edition of *SPSS: Analysis Without Anguish* is based on Version 13.0 of SPSS for Windows. SPSS is a sophisticated piece of software used by social scientists and related professionals for statistical analysis. There are several new features in SPSS version 13.0 that are covered in the new edition of this workbook, including:

- Improved charting capabilities
- New data management features
- Statistical enhancements

Always popular in previous editions, *SPSS: Analysis without Anguish* Version 13.0 for Windows continues to address the needs of all users of SPSS software. It serves as a practical introduction to new users and also allows those wishing to undertake more advanced analysis to work their way systematically through each stage.

Extensive use of screen displays and a range of 'step by step' working and practice examples remain as features of the workbook.

SPSS: Analysis without Anguish Version 13.0 is suitable across a number of disciplines, including business, health, social sciences, environmental science and geography. It can also be value pack with other Wiley textbooks in subjects such as statistics, market research and research methods to save students money.

ISBN 13: 9780470809143 / ISBN 10: 0470809140 280pp Feb 2006 Pr

Statistical Applications for the Behavioral Sciences

L. GRIMM, *University of Illinois*

This exciting, applications-oriented text features a meticulous step-by-step presentation of statistical theories and formulas. An entire chapter on research design provides students with an overall context for all of the statistical theories and formulas which follow. Each chapter opens by establishing the specific research context for one of the statistical analyses presented.

Contents: Concepts of Research and Descriptive Statistics: Basic Concepts in Research; Scales of Measurement and Displaying Data; Measures of Central Tendency; Measures of Variability; The Normal Curve and Transformations; Inferential Statistics: Parametric Tests: Hypothesis Testing and Sampling Distributions; Testing the Significance of a Single Mean; Directional and Nondirectional Testing of the Difference Between Two Means; Confidence Intervals and Hypothesis Testing; Power Analysis and Hypothesis Testing; One-Way Analysis of Variance; Two-Way Analysis of Variance; Repeated-Measures Analysis of Variance; Linear Correlation; Inferential Statistics; Nonparametric Tests: The Chi-Square Test; Other Non-Parametric Tests; Appendices.

Supplements: Teacher's Manual, Transparencies, Microtest

ISBN 13: 9780471509820 / ISBN 10: 0471509825
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