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Fifty Challenging Problems in Probability with Solutions-Frederick Mosteller 2012-04-26 Remarkable puzzles, graded in difficulty, illustrate elementary and advanced aspects of probability. These problems were selected for originality, general interest, or because they demonstrate valuable techniques. Also includes detailed solutions.

Statistics-E E Bassett 2000-06-27 Originally published in 1986, this book consists of 100 problems in probability and statistics, together with solutions and, most importantly, extensive notes on the solutions. The level of sophistication of the problems is similar to that encountered in many introductory courses in probability and statistics. At this level, straightforward solutions to the problems are of limited value unless they contain informed discussion of the choice of technique used, and possible alternatives. The solutions in the book are therefore elaborated with extensive notes which add value to the solutions themselves. The notes enable the reader to discover relationships between various statistical techniques, and provide the confidence needed to tackle new problems. Contents: Probability and Random Variables;ProbabilityRandom VariablesProbability Distributions;Discrete DistributionsContinuous DistributionsSimulating Random VariablesData Summarisation and Goodness-of-Fit;Data SummarisationGoodness-of-Fit;Finiteness;One Sample — Normal DistributionTwo Samples — Normal DistributionBinomial and Poisson DistributionsOther Problems;Analysis of Structured Data;Regression and Correlation;Analysis of Variance;Contingency Tables;Series;Readership: Students on introductory courses in probability and statistics, with a background in calculus. Keywords:Random Variables;Probability Distributions;Data Summarisation;Statistical Inference;Regression;Correlation;Reviews: “What is most valuable about this book is the very high quality of the model solutions ... It is a problem book for those teaching or learning a first course in mathematical statistics ... This one is outstandingly good and highly recommended.” Geoff Cohen University of Edinburgh, Scotland “The authors of this useful book take the view that the ability to solve practical problems is fundamental to an understanding of statistical techniques ... This book should prove a valuable addition to the library of students and teachers of statistics.” M J G Ansell Hatfield Polytechnic “The book consists of a series of examples, each followed by one or more alternative solutions and accompanying notes. The solutions themselves are useful models. The notes go one stage further and explain why particular techniques were chosen to solve each problem. This approach may help to overcome the common difficulty of deciding which method to choose when answering examination questions ... The book is easy to read and suitable for individual study.” Richard J Field “These notes provide fascinating insights into the process that experienced statisticians go through in order to solve a problem. Students (and maybe some instructors) will benefit greatly from going through the solutions and the notes in this book.” Gudmund R Iversen Swarthmore College “The approach of the authors is to improve a student's insights into the process that experienced statisticians go through in order to solve a problem. Students (and maybe some instructors) will benefit greatly from going through the solutions and the notes in this book.”

40 Puzzles and Problems in Probability and Mathematical Statistics-Wolf Schwarz 2007-11-25 This book is based on the view that cognitive skills are best acquired by solving challenging, non-standard probability problems. Many puzzles and problems presented here are either new within a problem solving context (although as topics in fundamental research they are long known) or are variations of classical problems which follow directly from elementary concepts. A small number of particularly instructive problems is taken from previous sources which in this case are generally given. This book will be a handy resource for professors looking for problems to assign, for undergraduate math students, and for a more general audience of amateur scientists.

Mathematical Statistics-Shelemyahu Zacks 2013-12-17 Provides the necessary skills to solve problems in mathematical statistics through theory, concrete examples, and exercises With a clear and detailed approach to the fundamentals of statistical theory, Examples and Problems in Mathematical Statistics uniquely bridges the gap between theory and application and presents numerous problem-solving examples that illustrate the relatednotations and proven results. Written by an established authority in probability and mathematical statistics, each chapter begins with a theoretical presentation to introduce both the topic and the important results in an effort to aid in overall comprehension. Examples are then provided, followed by problems, and finally, solutions to some of the earlier problems. In addition, Examples and Problems in Mathematical Statistics features: Over 160 practical and interesting real-world examples from a variety of fields including engineering, mathematics, and statistics to help readers become proficient in theoretical problem solving More than 430 unique exercises with select solutions Key statistical inference topics, such as probability theory, statistical distributions, sufficient statistics, information in samples, testing statistical hypotheses, statistical estimation, confidence and tolerance intervals, large sample theory, and Bayesian analysis Recommended for graduate-level courses in probability and statistical inference, Examples and Problems in Mathematical Statistics is also an ideal reference for applied statisticians and researchers.


Statistical Inference;Regression;Correlation;Reviews: “What is most valuable about this book is the very high quality of the model solutions ... It is a problem book for those teaching or learning a first course in mathematical statistics ... This one is outstandingly good and highly recommended.” Geoff Cohen University of Edinburgh, Scotland “The authors of this useful book take the view that the ability to solve practical problems is fundamental to an understanding of statistical techniques ... This book should prove a valuable addition to the library of students and teachers of statistics.” M J G Ansell Hatfield Polytechnic “The book consists of a series of examples, each followed by one or more alternative solutions and accompanying notes. The solutions themselves are useful models. The notes go one stage further and explain why particular techniques were chosen to solve each problem. This approach may help to overcome the common difficulty of deciding which method to choose when answering examination questions ... The book is easy to read and suitable for individual study.” Richard J Field “These notes provide fascinating insights into the process that experienced statisticians go through in order to solve a problem. Students (and maybe some instructors) will benefit greatly from going through the solutions and the notes in this book.” Gudmund R Iversen Swarthmore College “The approach of the authors is to improve a student’s understanding of statistics, and to help students appreciate which techniques might be appropriate for any problem.” Zentralblatt MATH

Problems in Probability Theory, Mathematical Statistics and Theory of Random Functions-A. A. Sveshnikov 2012-04-30 Approximately 1,000 problems — with answers and solutions included at the back of the book — illustrate such topics as random events, random variables, limit theorems, Markov processes, and much more.


Classic Problems of Probability-Prakash Gorroochurn 2012-06-26 Detailing the history of probability, this book examines the classic problems of probability that have shaped the field and emphasizes problems that are counter-intuitive by nature. Classic Problems of Probability is rich in the history of probability while keeping the explanations and discussions as accessible as possible.

Examples and Problems in Mathematical Statistics-Sheldon M. Ross 2014-07-18 A carefully selected collection of more than 450 problems in probability and mathematical statistics gives students an opportunity to develop their problem-solving skills and to practice handling the types of exercises commonly found in term papers, examinations, and professional encounters. Examples and Problems in Mathematical Statistics has the following features: 400 problems with challenging examples and worked solutions; Brief reviews of the principles behind the problems; Cross-reference to the main theorems and definitions; Fourth Edition includes and updates the previous three editions of this best-selling text

Mathematical Statistics: A Modern Introduction-Tom L. W.学士 2008-12-31 A careful balance between theory and methodology ； 100 illustrations ； More than 500 exercises throughout the book ； Solutions to selected exercises and an appendix of useful statistical tables ； This text is written in an expository style and is an excellent text for any course that covers the foundations of probability and statistics.

Mathematical Statistics: Exercises and Problems-Tom L. W.学士 2008-12-31 This volume contains an extensive collection of problems and solutions in mathematical statistics. It can be used as a supplement to the author’s Mathematical Statistics: A Modern Introduction (Cambridge University Press, 2008). It will also be of interest to readers who wish to test their own skills by working on these exercises, which range from elementary to advanced level.

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introduces some fundamental concepts in statistical decision theory and inference. Subsequent chapters contain detailed studies on some important topics: unbiased estimation, parametric estimation, nonparametric estimation, hypothesis testing, and confidence sets. A large number of exercises in each chapter provide not only practice problems for students, but also many additional results.

Exercises in Probability-T. Cacoullos 2012-12-06 The author, the founder of the Greek Statistical Institute, has based this book on the two volumes of his Greek edition which has been used by over ten thousand students during the past fifteen years. It can serve as a companion text for an introductory or intermediate level probability course. Those who will benefit most who have a good grasp of calculus, yet, many others, with less formal mathematical background can also benefit from the large variety of solved problems ranging from classical combinatorial problems to limit theorems and the law of iterated logarithms. It contains 329 problems with solutions as well as an addendum of over 160 exercises and certain complements of theory and problems.

Introductory Statistics-Barbara Illowsky 2017-12-19 Introductory Statistics is designed for the one-semester, introduction to statistics course and is geared toward students majoring in fields other than math or engineering. This text assumes students have been exposed to intermediate algebra, and it focuses on the applications of statistical knowledge rather than the theory behind it. The foundation of this textbook is Collaborative Statistics, by Barbara Illowsky and Susan Dean. Additional topics, examples, and ample opportunities for practice have been added to each chapter. The development choices for this textbook were made with the guidance of many faculty members who are deeply involved in teaching this course. These choices led to innovations in art, terminology, and practical applications, all with a goal of increasing relevance and accessibility for students. We strove to make the discipline meaningful, so that students can draw from it a working knowledge that will enrich their future studies and help them make sense of the world around them. Coverage and Scope Chapter 1 Sampling and Data Chapter 2 Descriptive Statistics Chapter 3 Probability Topics Chapter 4 Discrete Random Variables Chapter 5 Continuous Random Variables Chapter 6 The Normal Distribution Chapter 7 The Central Limit Theorem Chapter 8 Confidence Intervals Chapter 9 Hypothesis Testing with One Sample Chapter 10 Hypothesis Testing with Two Samples Chapter 11 The Chi-Square Distribution Chapter 12 Linear Regression and Correlation Chapter 13 F Distribution and One-Way ANOVA

Collection of problems in probability theory-L.D. Meshalkin 2012-12-06 The Russian version of A collection of problems in probability theory contains a chapter devoted to statistics. That chapter has been omitted in this translation because, in the opinion of the editor, its content deviates somewhat from that which is suggested by the title: problems in probability theory. The original Russian version contains some errors; an attempt was made to correct all errors found, but perhaps a few still remain. An index has been added for the convenience of the reader who may be searching for a definition, a classical problem, or whatever. The index lists pages as well as problems where the indexed words appear. The book has been translated and edited with the hope of leaving as much “Russian flavor” in the text and problems as possible. Any pecu liarities present are most likely a result of this intention. August, 1972 Bryan A. Howarth viii Foreword to the Russian Edition This Collection of problems in probability theory is primarily intended for university students in physics and mathematics departments. Its goal is to help the student of probability theory to master the theory more pro foundly and to acquaint him with the application of probability theory methods to the solution of practical problems. This collection is geared basically to the third edition of the GNEDENKO textbook Course in probability theory, Fizmatgiz, Moscow (1961), Probability theory, Chelsea (1965).

Probability Through Problems-Marek Capinski 2013-06-29 This book of problems is designed to challenge students learning probability. Each chapter is divided into three parts: Problems, Hints, and Solutions. All Problems sections include expository material, making the book self-contained. Definitions and statements of important results are interlaced with relevant problems. The only prerequisite is basic algebra and calculus.

Business Statistics: Problems & Solutions-Sharma J.K. This book meets the specific and complete requirements of students pursuing MBA/PGDBM, B.Com., M.Com., MA(Eco), CA, ICWA, BBA, BIS/BIT/BCA, etc., courses, who need to understand the basic concepts of business statistics and apply results directly to real-life business problems. The book also suits the requirements of students who need practical knowledge of the subject, as well as for those preparing for competitive examinations.

Statistics and Probability with Applications (High School)-Daren S. Starnes 2016-09-30 Statistics and Probability with Applications, Third Edition is the only introductory statistics text written by high school teachers for high school teachers and students. Daren Starnes, Josh Tabor, and the extended team of contributors bring their in-depth understanding of statistics and the challenges faced by high school students and teachers to development of the text and its accompanying suite of print and interactive resources for learning and instruction. A complete re-envisioning of the authors' Statistics Through Applications, this new text covers the core content for the course in a series of brief, manageable lessons, making it easy for students and teachers to stay on pace. Throughout, new pedagogical tools and lively real-life examples help captivate students and prepare them to use statistics in college courses and in any career.

Statistics and Probability with Applications for Engineers and Scientists-Bhisham C. Gupta 2020-02-05 This book of problems is designed to challenge students learning probability. Each chapter is divided into three parts: Problems, Hints, and Solutions. The only prerequisite is basic algebra and calculus.

Statistics and Probability with Applications for Engineers and Scientists-Bhisham C. Gupta 2014-03-06 Introducing the tools of statistics and probability from the ground up. An understanding of statistical tools is essential for engineers and scientists who often need to deal with data analysis over the course of their work. Statistics and Probability with Applications for Engineers and Scientists walks readers through a wide range of popular statistical techniques, explaining step-by-step how to generate, analyze, and interpret data for diverse applications in engineering and the natural sciences. Among unique books of this kind, Statistics and Probability with Applications for Engineers and Scientists covers descriptive statistics first, then goes on to discuss the fundamentals of probability theory. Along with case studies, examples, and real-world data sets, the book incorporates clear instructions on how to use the statistical packages Minitab® and Microsoft® Office Excel® to analyze various data sets. The book also features: • Detailed discussions on sampling distributions, statistical estimation of population parameters, hypothesis testing, reliability theory, statistical quality control including
Phase I and Phase II control charts, and process capability indices • A clear presentation of nonparametric methods and simple and multiple linear regression methods, as well as a brief discussion on logistic regression method • Comprehensive guidance on the design of experiments, including randomized block designs, one- and two-way layout designs, Latin square designs, random effects and mixed effects models, factorial and fractional factorial designs, and response surface methodology • A companion website containing data sets for Minitab and Microsoft Office Excel, as well as JMP ® routines and results Assuming no background in probability and statistics, Statistics and Probability with Applications for Engineers and Scientists features a unique, yet tried-and-true, approach that is ideal for all undergraduate students as well as statistical practitioners who analyze and illustrate real-world data in engineering and the natural sciences.

Understanding Probability-Henk Tijms 2007-07-26 In this fully revised second edition of Understanding Probability, the reader can learn about the world of probability in an informal way. The author demystifies the law of large numbers, betting systems, random walks, the bootstrap, rare events, and the Bayesian approach and more. This second edition has wider coverage, more explanations and examples and exercises, and a new chapter introducing Markov chains, making it a great choice for a first probability course. But its easy-going style makes it just as valuable if you want to learn about the subject on your own, and high school algebra is really all the mathematical background you need.

Applied Statistics-Dieter Rasch 2019-10-07 Instructs readers on how to use methods of statistics and experimental design with R software. Applied statistics covers both the theory and the application of modern statistical and mathematical modelling techniques to applied problems in industry, public services, commerce, and research. It proceeds from a strong theoretical background, but it is practically oriented to develop one's ability to tackle new and non-standard problems confidently. Taking a practical approach to applied statistics, this user-friendly guide teaches readers how to use methods of statistics and experimental design without going deep into the theory. Applied Statistics: Theory and Problem Solutions with R includes chapters that cover R package sampling procedures, analysis of variance, point estimation, and more. It follows on the heels of Rasch and Schott's Mathematical Statistics via that book's theoretical background—taking the lessons learned from there to another level with this book's addition of instructions on how to employ the methods using R. But there are two important chapters not mentioned in the theoretical back ground as Generalised Linear Models and Spatial Statistics. Offers a practical over theoretical approach to the subject of applied statistics Provides A pre-experimental as well as post-experimental approach to applied statistics Features classroom tested material Applicable to a wide range of people working in experimental design and all empirical sciences Includes 300 different procedures with R and examples with R-programs for the analysis and for determining minimal experimental sizes Applied Statistics: Theory and Problem Solutions with R will appeal to experimenters, statisticians, mathematicians, and all scientists using statistical procedures in the natural sciences, medicine, and psychology amongst others.

Introduction to Probability-Joseph K. Blitzstein 2014-07-24 Developed from celebrated Harvard statistics lectures, Introduction to Probability provides essential language and tools for understanding statistics, randomness, and uncertainty. The book explores a wide variety of applications and examples, ranging from coincidences and paradoxes to Google PageRank and Markov chain Monte Carlo (MCMC). Additional exercises in probability and statistics are included for those working the problems on their own.

Theoretical Exercises in Probability and Statistics for Mathematics Undergraduates-N. A. Rahman 1987-03-01 These exercises are designed to show the power and uses of probability and statistical methods. Over 550 problems illustrate applications in mathematics, economics, industry, biology, and physics. Answers are included for those working the problems on their own.

Applied Statistics and Probability for Engineers-Douglas C. Montgomery 2018

Probability and Statistics with Applications: A Problem Solving Text-Leonard Asimow, Ph.D., ASA

Probability and Statistics with Applications: A Problem Solving Text-Donald Rice 2006-04-28 This is the first text in a generation to re-examine the purpose of the mathematical statistics course. The book's approach interweaves traditional topics with data analysis and reflects the use of the computer with close ties to the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The book's descriptive statistics, graphical displays, and realistic applications stand in strong contrast to traditional texts that are set in abstract settings. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Mathematical Statistics and Data Analysis-John A. Rice 2006-04-28 This is the first text in a generation to re-examine the purpose of the mathematical statistics course. The book's approach interweaves traditional topics with data analysis and reflects the use of the computer with close ties to the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The book's descriptive statistics, graphical displays, and realistic applications stand in strong contrast to traditional texts that are set in abstract settings. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Real Analysis and Probability-Robert B. Ash 2014-07-03 Real Analysis and Probability provides the background in real analysis needed for the study of probability. Topics covered range from measure and integration theory to functional analysis. The interplay between measure theory and topology is also discussed, along with conditional probability and expectation, the central limit theorem, and strong laws of large numbers with respect to martingale theory. Comprised of eight chapters, this volume begins with an overview of the basic concepts of the theory of measure and integration, followed by a presentation of various applications of the basic integration theory. The reader is then introduced to functional analysis, with emphasis on structures that can be defined on vector spaces. Subsequent chapters focus on the connection between measure theory and topology: basic concepts of probability; and conditional probability and expectation. Strong laws of large numbers are also examined, first from the classical viewpoint, and then via martingale theory. The final chapter is devoted to the one-dimensional central limit problem, paying particular attention to the fundamental role of Prokhorov's weak compactness theorem. This book is intended primarily for students taking a graduate course in probability.
**Introduction to Probability and Statistics**

- William Mendenhall 2012-01-01 Used by hundreds of thousands of students since its first edition, INTRODUCTION TO PROBABILITY AND STATISTICS, Fourteenth Edition, continues to blend the best of its proven, error-free coverage with new innovations. Written for the higher end of the traditional introductory statistics market, the book takes advantage of modern technology—incorporating computational software and interactive visual tools—to facilitate statistical reasoning as well as the interpretation of statistical results. In addition to showing how to apply statistical procedures, the authors explain how to describe real sets of data meaningfully, what the statistical tests mean in terms of their practical applications, how to evaluate the validity of the assumptions behind statistical tests, and what to do when statistical assumptions have been violated. The new edition retains the statistical integrity, examples, exercises, and exposition that have made this text a market leader—and builds upon this tradition of excellence with new technology integration. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

- G.B Singh 2012 This book is an effort has been made to explain theory as well as practical aspects of statistical probabilities and apply the concept of probability in solving day to day problems relating to chance and risk factors.

**Statistics: 1,001 Practice Problems For Dummies**

- Consumer Dummies 2014-08-04 1,001 practice opportunities to score higher in statistics, 1,001 Statistics Practice Problems For Dummies takes you beyond the instruction and guidance offered in Statistics For Dummies to give you a more hands-on understanding of statistics. The practice problems offered range in difficulty, including detailed explanations and walk-throughs. In this series, every step of every solution is shown with explanations and detailed narratives to help you solve each problem. With the book purchase, you'll also get access to practice statistics problems online. This content features 1,001 practice problems presented in multiple choice format; on-the-go access from smartphones, computers, and tablets; customizable practice sets for self-directed study; practice problems categorized by difficulty. 1,001 Statistics Practice Problems For Dummies offers a wide range of applications for students who have taken statistics in high school and want to review the most important concepts as they get ready for a faster-paced college class.

**Problems in Probability**

- Albert N. Shiryaev 2012-08-07 For the first two editions of the book Probability (GTM 95), each chapter included a comprehensive and diverse set of relevant exercises. While the work on the third edition was still in progress, it was decided that it would be more appropriate to publish a separate book that would comprise all of the exercises from previous editions, in addition to many new exercises. Most of the material in this book consists of exercises created by Shiryaev, collected and compiled over the course of many years while working on many interesting topics. Many of the exercises resulted from discussions that took place during special seminars for graduate and undergraduate students. Many of the exercises included in the book contain helpful hints and other relevant information. Lastly, the author has included an appendix at the end of the book that contains a summary of the main results, notation and terminology from Probability Theory that are used throughout the present book. This Appendix also contains additional material from Combinatorics, Potential Theory and Markov Chains, which is not covered in the book, but is nevertheless needed for many of the exercises included here.

**Introductory Business Statistics**

- Alexander Holmes 2018-01-07 Introductory Business Statistics is designed to meet the scope and sequence requirements of the one-semester statistics course for business, economics, and related majors. Core statistical concepts and skills have been augmented with practical business examples, scenarios, and exercises. The result is a meaningful understanding of the discipline, which will serve students in their business careers and real-world experiences.

**Introduction to Probability, Statistics, and Random Processes**

- Hossein Pishro-Nik 2014-08-15 The book covers basic concepts such as random experiments, probability axioms, conditional probability, and counting methods, single and multiple random variables (discrete, continuous, and mixed), as well as moment-generating functions, characteristic functions, random vectors, and inequalities; limit theorems and convergence; introduction to Bayesian and classical statistics; random processes including processing of random signals, Poisson processes, discrete-time and continuous-time Markov chains, and Brownian motion; simulation using MATLAB and R.

**Stochastic Processes Problems and Solutions**

- L. Takacs 2012-12-06 It is not so very long ago that up-to-date text-books on statistics were almost non-existent. In the last few decades this deficiency has largely been remedied, but in order to cope with a broad and rapidly expanding subject many of these books have been fairly big and expensive. The success of Muthen's existing series of monographs, in physics or in biology, for example, stresses the value of short inexpensive treatments to which a student can turn for an introduction to a revision of specialist topics. In this new Muthen series the still-growing importance of probability theory in its applied aspects has been recognised by coupling together Probability and Statistics; and included in the series are some of the newer applications of probability theory to stochastic models in various fields, storage and service problems, 'Monte Carlo' techniques, etc., as well as monographs on particular statistical topics. M. S. Bartlett is author's PREFACE The theory of stochastic processes has developed in the last three decades. Its field of application is constantly expanding and at present it is being applied in nearly every branch of science. So far several books have been written on the mathematical theory of stochastic processes. The nature of this book is different because it is primarily a collection of problems and their solutions, and is intended for readers who are already familiar with probability theory.

**Probability Problem Solver**

- Staff of Research and Education Association 2001-01-01 The Probability Tutoring Book is a self-study guide for practicing engineers, scientists, and students, this book offers practical, worked-out examples on continuous and discrete probability for problemsolving courses. It is filled with handy diagrams, examples, and solutions that greatly aid in the comprehension of a variety of probability problems.

**Probability & Statistics for Engineers & Scientists**

- Ronald E. Walpole 2016-03-09 NOTE: This edition features the same content as the traditional text in a convenient, three-hole-punched, loose-leaf version. Books a la Carte also offer a great value—this format costs significantly less than a new textbook. Before purchasing, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. For junior/senior undergraduates taking probability and statistics as applied to engineering, science, or computer science. This classic text provides a rigorous introduction to basic probability theory and statistical inference, with a unique balance between theory and methodology. Interesting, relevant applications use real data from actual studies, showing how the concepts and methods can be used to solve problems in the field. This revision focuses on improved clarity and deeper understanding. This latest edition is also available in an enhanced Pearson eText. This exciting new version features an embedded version of StatCrunch, allowing students to analyze data sets while reading the book. Also available with MyStatLab MyStatLab(tm) is an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Within its structured environment, students practice what they learn, test their understanding, and pursue a personalized study plan that helps them absorb course material and understand difficult concepts. Note: You are purchasing a standalone product; MyLab & Mastering(tm) does not come packaged with this content. Students, if interested in purchasing this title with MyLab & Mastering, ask your instructor for the correct package ISBN and Course ID. Instructors, contact your Pearson representative for more information.