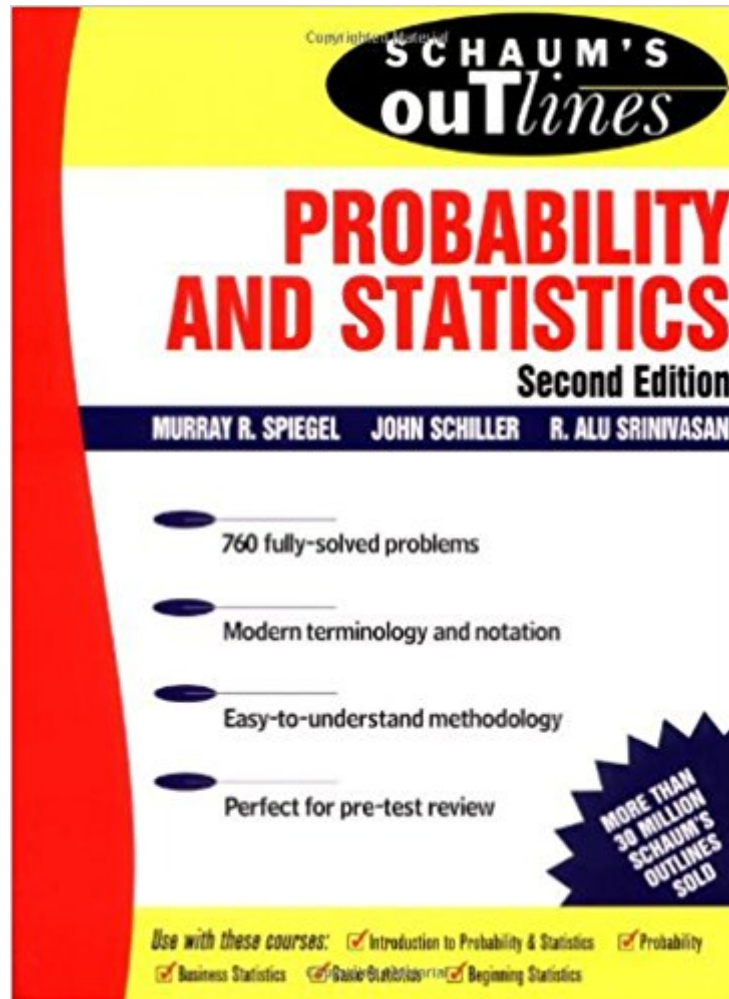# Schaum's Outline: Probability And Statistics, Second Edition

## Synopsis

Selling over 220,000 copies in its first edition, Schaum's Outline of Probability and Statistics has become a vital resource for the more than 977,000 college students who enroll in related probability and statistics courses each year. Its big-picture, calculus-based approach makes it an especially authoriatative reference for engineering and science majors. Now thoroughly update, this second edition includes vital new coverage of order statistics, best critical regions, likelihood ratio tests, and other key topics.

## Book Information

Paperback: 408 pages

Publisher: McGraw-Hill; 2nd edition (March 17, 2000)

Language: English

ISBN-10: 0071350047

ISBN-13: 978-0071350044

Product Dimensions:  8.1 x 0.7 x 10.8 inches

Shipping Weight: 1.7 pounds

Average Customer Review:  4.1 out of 5 starsÂ Â See all reviewsÂ (56 customer reviews)

Best Sellers Rank: #440,793 in Books (See Top 100 in Books)   #25 inÂ Books > Science & Math > Mathematics > Infinity   #187 inÂ Books > Science & Math > Mathematics > Applied > Differential Equations   #878 inÂ Books > Science & Math > Mathematics > Applied > Statistics

## Customer Reviews

This is a completely outstanding work by an outstanding author. I have used this book for years, and again and again find myself turning to it for essential summaries and derivations of key results. Evidently some reviewers have not even caught on to the fact that the proofs of all the theorems are in the solved problems! (This is my first  review, but I cannot allow the injustice perpetrated by some other reviewers to stand.)All of the (few) typos of concern to some reviewers are in the "supplementary problems", and by the time you've got there you'll have no little confidence in your own answers and in your own ability. This is *the* probability and statistics book for me because the proofs are presented with minimum formality in order to maximize understanding of the main ideas. Want to know how to *derive* the chi-square distribution or how to add or multiply random variables? You'll find no clearer or more succinct presentation anywhere.The first two chapters are also suitable for beginners. Copious examples (as thoughout) attend the presentations of (elementary) set theory, probability axioms, and combinatorics. The supplementary problems,

always optional, however, do contain intermediate level challenges.The book is entirely self-contained, and though it is of course true that extra books always help, it's the best single-source. It's ideal for self-study, as are all of Murray Spiegel's Schaum Outlines.

I have used this book as a reference for understanding and solving various types of statistics problems for over ten years. It makes application of statistics concepts to real world problems easy because it contains many good example problems that are solved for the reader. One statistics teacher complemented me on my use of the book because it is very difficult to use the information in other textbooks on problems because they contain very few solved examples. I own a few other statistics books but this one is always the most useful.

This excellent book provides a comprehensive look at statistical methods. It's a great reference guide with 19 chapters, each of which build nicely on one another.Chapters 1 through 11 lay the foundation of statistical study and the reader should benefit greatly from this framework.Specifically, Chapters 1 through 3 cover Variables and Graphs, Frequency Distributions and Mean-Median-Mode concepts. Chapters 4 through 6 move on to cover Standard Deviation, Skewness and Elementary Probability Theory. Chapter 7 then discusses Binomial, Normal and Poisson Distributions.Chapters 8, 9, 10 and 11 delve into Sampling, Statistical Estimation, Statistical Decision and Small Sampling Theory.The remaining chapters offer practical insights into such topics as Chi-Square test, Correlation Theory, Analysis of Variance (ANOVA), Time Series Analysis and Statistical Process Control. Much of this appears in the CFA curriculum and therefore is a worthy supplemental study.True to its format, this Schaum's book helps readers via its question and answer format in each of its chapters. Going through these problems teaches and reinforces concepts taught in the first pages of each chapter in the book.Great job authors! I'm hoping others will benefit from this book too.

If you are just learning about statistics, this book cannot be used as a primary text. The main audience of this rather useful workbook are students who are currently taking or just finished a statistics course; or, those who actually need to do real world calculations.Like all other books in this series, each chapter has an introductory essay of varying clarity and usefulness, many fully worked out examples, and many supplementary questions with the answers in the back.For those who are having trouble with a particular aspect of statistics, or in search of refresher material, the usefulness of this book is rather more variable. Some chapters have good, clear explanations, while others just

present equations and procedures for solving them using various sets of data.I find this book to be quite useful, especially the chapters on time series and index numbers.

Most books have errors and typos. This book is no exception but I am curious as to why some reviewers think that nothing is proven. Of course some theorems are not proven rigorously which they can't be at this level but most proofs exist. If you are confused about Jacobians, then maybe you should also reference a calculus book because Spiegel expects that you know what that is.This is an excellent book to refresh your knowledge of intro probability and statistics but assumes you are proficient in calculus.

If you are an undergraduate in a probability and statistics course I think a better selection would be Schaum's Outline of Probability and Statistics, 3/E (Schaum's Outline Series) in conjunction with your textbook. That is a thorough investigation of introductory probability and statistics. This book is for the serious student of statistics that is ready to investigate subjects such as detection and estimation theory, curve fitting, and more. In fact, if you are planning on studying Estimation and Detection Theory on the graduate level, I recommend getting this outline and going through it prior to entering the formal course. It will make a big difference in your comprehension of the subject matter.I keep this book around as a reference and a refresher on subjects I have forgotten. If you already have a basic understanding of statistics and you just want to know more, this makes a great and inexpensive textbook. It is certainly much better than the expensive hardcover texts on the subject that I have run across.

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