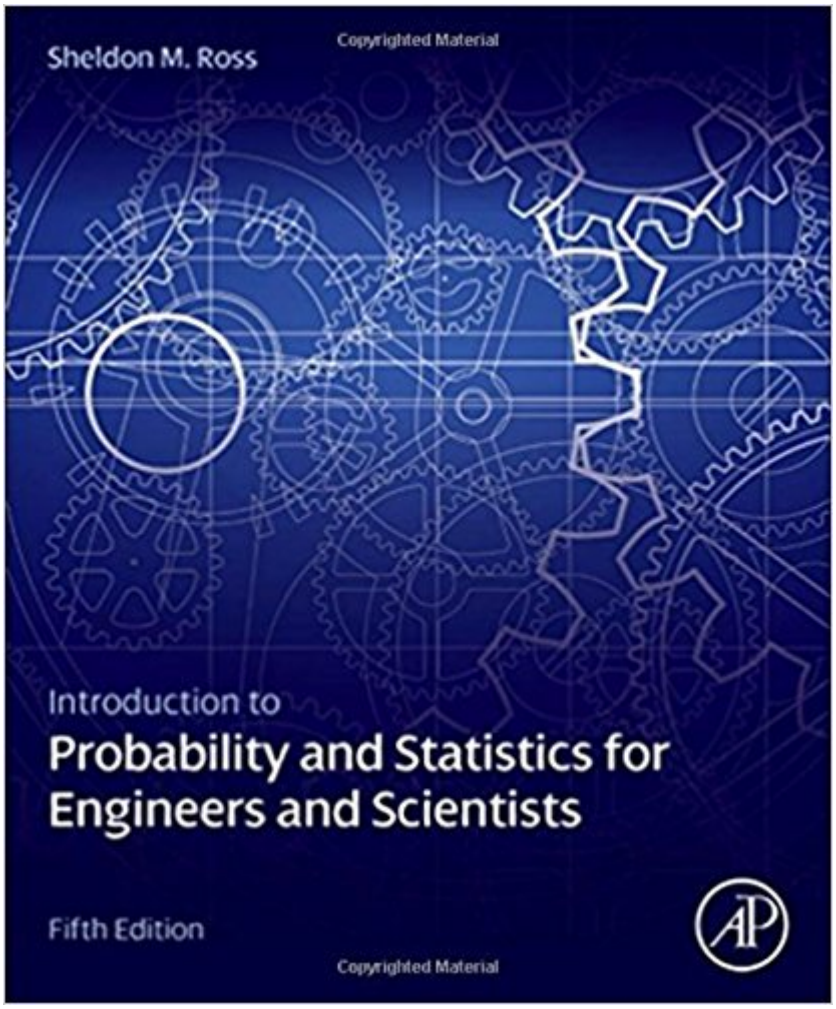
Introduction To Probability And Statistics For Engineers And Scientists, Fifth Edition



Synopsis

Introduction to Probability and Statistics for Engineers and Scientists, Fifth Edition is a proven text reference that provides a superior introduction to applied probability and statistics for engineering or science majors. The book lays emphasis in the manner in which probability yields insight into statistical problems, ultimately resulting in an intuitive understanding of the statistical procedures most often used by practicing engineers and scientists. Real data from actual studies across life science, engineering, computing and business are incorporated in a wide variety of exercises and examples throughout the text. These examples and exercises are combined with updated problem sets and applications to connect probability theory to everyday statistical problems and situations. The book also contains end of chapter review material that highlights key ideas as well as the risks associated with practical application of the material. Furthermore, there are new additions to proofs in the estimation section as well as new coverage of Pareto and lognormal distributions, prediction intervals, use of dummy variables in multiple regression models, and testing equality of multiple population distributions. This text is intended for upper level undergraduate and graduate students taking a course in probability and statistics for science or engineering, and for scientists, engineers, and other professionals seeking a reference of foundational content and application to these fields. Clear exposition by a renowned expert authorReal data examples that use significant real data from actual studies across life science, engineering, computing and businessEnd of Chapter review material that emphasizes key ideas as well as the risks associated with practical application of the material25% New Updated problem sets and applications, that demonstrate updated applications to engineering as well as biological, physical and computer scienceNew additions to proofs in the estimation sectionNew coverage of Pareto and lognormal distributions, prediction intervals, use of dummy variables in multiple regression models, and testing equality of multiple population distributions.

Book Information

Hardcover: 686 pages
Publisher: Academic Press; 5 edition (August 28, 2014)
Language: English
ISBN-10: 0123948118
ISBN-13: 978-0123948113
Product Dimensions: 7.8 x 1.5 x 9.3 inches
Shipping Weight: 3.8 pounds (View shipping rates and policies)

Average Customer Review: 2.8 out of 5 stars 8 customer reviews

Best Sellers Rank: #53,869 in Books (See Top 100 in Books) #3 inÃ Â Books > Science & Math > Mathematics > Applied > Stochastic Modeling #296 inÃ Â Books > Textbooks > Science & Mathematics > Mathematics > Statistics #305 inÃ Â Books > Textbooks > Engineering

Customer Reviews

"...the book is intended for an introductory course, and assumes elementary calculus." --Gazette of the Australian Mathematical Society

Sheldon M. Ross is a professor in the Department of Industrial Engineering and Operations Research at the University of Southern California. He received his Ph.D. in statistics at Stanford University in 1968. He has published many technical articles and textbooks in the areas of statistics and applied probability. Among his texts are A First Course in Probability, Introduction to Probability Models, Stochastic Processes, and Introductory Statistics. Professor Ross is the founding and continuing editor of the journal Probability in the Engineering and Informational Sciences. He is a Fellow of the Institute of Mathematical Statistics, and a recipient of the Humboldt US Senior Scientist Award.

"Introduction" to Probability and Statistics. Don’t you believe it. This book is not for those who have not had any exposure to probability and statistics. Like a lot of upper division mathematical textbooks it is written in almost pure "Mathenese" with a lot of implied teaching and assumptions that you already know the basics. This book is fine for a math major nearing the completion of their degree but definitely NOT the green horn statistician. If you looking for an introduction look elsewhere.

This textbook is by far the worst textbook I ever used in college. The text is almost entirely just words in paragraphs rather than examples with guided headings. There are no solutions to any of the homework problems. And some of the homework problems make you refer to data sets from previous chapters. Trying to learn from this book is not possible.Also I rented this book and I sent it back a week before it was due, it was sent back to me two weeks later and I was charged a late fee.

The screen shots of examples and formulas from the book are cropped really lazily and have portions clearly cut out of the image. Makes them useless.

Hard to follow. A lot of crucial examples to understanding the content are "do it yourself" exercises

Good prob and Stat book. Requires reading to understand concepts. Can not just read though pictures, charts, and equations.

excellent quality

Good book

This book aims to explain concepts, so demonstrations are just part of it (I liked them).What I didn't like is the lack of practical examples worked out with some mainstream mathematic tool like Matlab / Mathematica. Maybe 20 years ago It could be possible ignoring Matlab / Mathematica but now it is just not serious; formulas are very good for understanding concepts but for any practical use you should be able to use Matlab.Moreover, there are a lot of problems without solution; this is not helpful.Last, in the kindle edition, formulas are not always readable.

(Schaum’s Outlines)