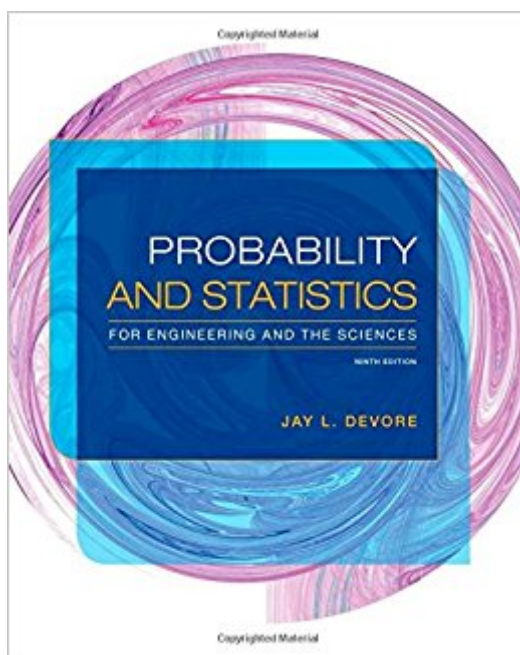


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# Probability And Statistics For Engineering And The Sciences



## Synopsis

Put statistical theories into practice with **PROBABILITY AND STATISTICS FOR ENGINEERING AND THE SCIENCES**, 9th Edition. Always a favorite with statistics students, this calculus-based text offers a comprehensive introduction to probability and statistics while demonstrating how professionals apply concepts, models, and methodologies in today's engineering and scientific careers. Jay Devore, an award-winning professor and internationally recognized author and statistician, emphasizes authentic problem scenarios in a multitude of examples and exercises, many of which involve real data, to show how statistics makes sense of the world. Mathematical development and derivations are kept to a minimum. The book also includes output, graphics, and screen shots from various statistical software packages to give you a solid perspective of statistics in action. A Student Solutions Manual, which includes worked-out solutions to almost all the odd-numbered exercises in the book, is available.

## Book Information

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Actual data used in practice

problems. Examples and exercises based on real data or actual problems give you practice with statistics for the modern era. Glossary of symbols & abbreviations for quick reference.

Examples and exercises based on real data or actual problems give you practice with statistics for the modern era. Making connections throughout the text. Chapters and exercises refer to material covered in earlier sections, making it easier for you to see connections between concepts

as you move forward in your studies. Practice exams: designed to prepare you for the real thing.

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"This text has a great number of examples and exercises that are of high quality. Students enjoy doing the real world problems. I believe this is the text's greatest strength." "The strengths are the material coverage (i.e. topics covered) and the engineering focus. I would describe this text as a reliable classic."

Jay Devore is Professor Emeritus of Statistics at California Polytechnic State University. He earned his undergraduate degree in Engineering Science from the University of California at Berkeley, spent a year at the University of Sheffield in England, and finished his Ph.D. in statistics at Stanford University. Jay previously taught at the University of Florida and at Oberlin College and has had visiting appointments at Stanford, Harvard, the University of Washington, New York University, and Columbia University. From 1998 to 2006, he served as Chair of the Cal Poly Statistics Department. In addition to this book, Jay has written several other widely used statistics texts for engineers and scientists and a book in applied mathematical statistics. He recently coauthored a text in probability

and stochastic processes. He is the recipient of a distinguished teaching award from Cal Poly, is a Fellow of the American Statistical Association, and has served several terms as an Associate Editor of the "Journal of the American Statistical Association." In his spare time, he enjoys reading, cooking and eating good food, tennis, and travel to faraway places. He is especially proud of his wife, Carol, a retired elementary school teacher, his daughter Allison, who has held several high-level positions in nonprofit organizations in Boston and New York City, and his daughter Teresa, a high school teacher in Brooklyn.

This textbook was for one of my first core major classes. Since I figured it would make a great reference book and our class would be using it quite often, I decided to bite the bullet and purchase it new. To make it easier, I'll break it up into the good and the bad:

**The Good:**-If you're an engineer, almost all of the homework problems in the chapters have an engineering application focus. Since I'm a stats major, I really have no clue what application some of the problems have to real-life problems, but it may help an engineer better understand the context of the problem. As well, in typical math-book stride, the odd answers are in the back of the book.-Major formulas are typically prominently highlighted with a box and bold lettering, so they're easier to find in the chapters.-The most important tables are in the very front, so you don't have to go looking for them through the appendix.-The homework problems are divided by section, and the numbers are sequential by chapter rather than section. Therefore, you can't have a homework problem #2 in section 4.1 and 4.3

**The Bad:**-Many of the questions are long and some are poorly worded. Look closely at what it wants you to do, or you may end up redoing the problem.-The formulas are much harder than they need to be. Many are calculus-based when a simple form works in the same way. The book is also extremely wordy and labor-intensive in derivations and examples. Because of this, it makes the work seem much harder than it really is, especially since your TI-84 can do much of this work for you.-It is an expensive book, new or used. The book itself is smaller than a typical textbook, and the editions are updated frequently. While the content typically doesn't change during an edition update, the homework problems at the end of each section do; if your professor gives you graded homework from the book, you're stuck with this thing.

**Overall:** The book does an OK job at educating at a higher level than a basic stats book. In its class, it would be considered on the higher-rated end, but don't expect this book to be the best thing you've ever read (or skimmed).

I felt that this was an excellent book. I easily learned more from this book than the professor (who, although seeming to know the subject matter, was deaf and couldn't understand his students). I am

seeking a degree in math and statistics teaching and I am really sorry I sold this book back but I needed the money at the time. I hope to purchase it back some day. It is somewhat calculation intensive, but is manageable for those with a calculus background which is usually required anyway to take any sort of course in statistics at any college. The examples were great and instructive and I've gone on to pass 5000 level stats classes with A's. I will be interested in having this book when I can afford it. If you can learn to get into the text, you will likely learn more from this book than you lecture (I had to) and will enjoy the subject as well.

I will preface this by saying that I have taken and received 4.0's in Calculus up to Differential Equations. That said, this textbook is terrible. The explanations are extremely long-winded, the formulas are stated in an unclear, vague manner, and the overall the reading is very dry. Examples are real-world, but all the in-text citations really distract from the problem, and most of the examples are beyond droll anyway. It feels like the simplest of concepts are eluding you, and that an effective writer/teacher would make everything click without nearly as much effort as this book uses. If you have to buy it, then good luck.

This is the worst textbook I have ever read! It presents the material in a very complicated manner, hard to understand. Moreover, the language and the examples are so dry, it is hard to keep your eyes open when reading the book. The problems in the end of each chapter are so unlike one another that one has to go to the internet to find similar problems with solutions, and most problems are nothing like the examples presented in the chapters. Even for a person with extensive mathematical knowledge this book makes it impossible to learn the subject.

Perhaps I'm biased, because I had the third worst professor I had ever had teaching probability and statistics, but the fact that he chose this book to teach it with certainly did not help his case. This book is terrible. If you aren't someone who is absolutely thrilled and astonished by mathematics, and can't wait to go home to try out that new equation you learned today, then this book can't help you. It's a dull read that explains everything in a very mathematical sense, often leaving you asking what in the world just happened. Now, don't misunderstand me, I am an engineer, I know the math well. However, nobody I've ever met really enjoys having things explained in a purely mathematical sense... okay, I did have this roommate who got a BA in Mathematics and Physics in 2 years, but he was the rare exception. There are much better books out there to learn probability and statistics from, especially if you're learning it on your own. If this book is a mandatory text for a class, pray

that whoever is teaching it is a much easier to understand than this book.

I like that it is cheap compared to the hard cover version. However, some of the practice problems after each section are in different order when compared to the hard cover. My teacher used the hard cover version. So, this became inconvenient when she assigned problems for homework. But, every problem that is in the hard cover is in this version. They are even in the same section, just in different order. Example: Number 49 in chapter 3 is number 57 in this version. Other than this, it was a better buy than the hard cover.

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