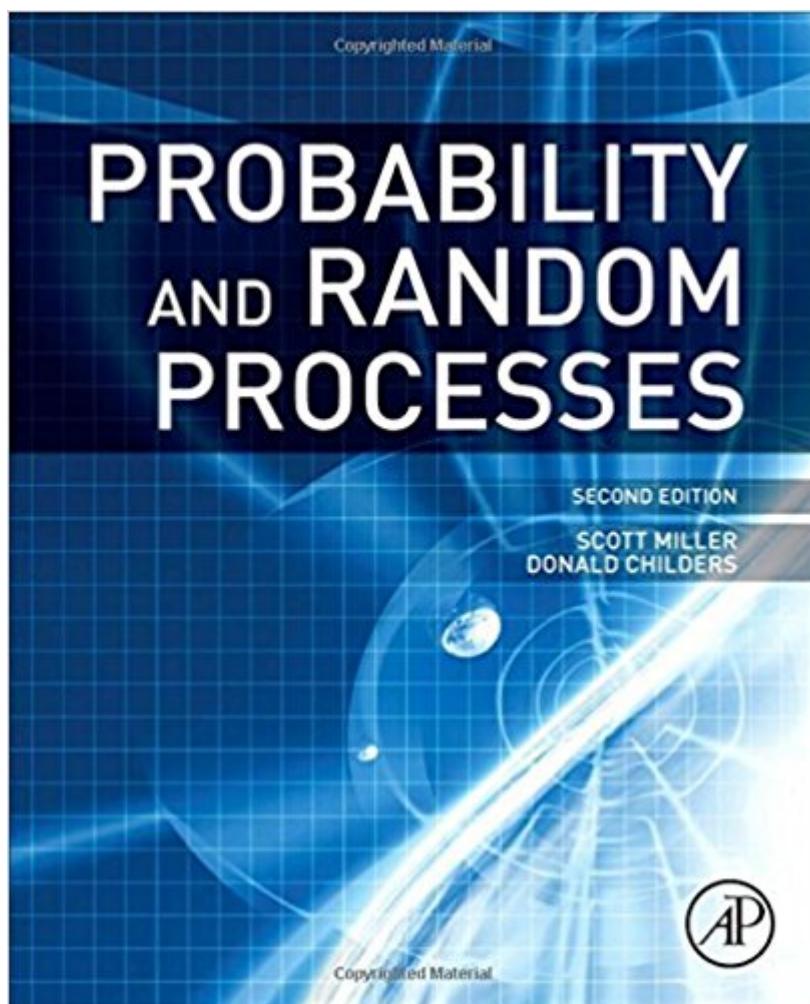


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# Probability And Random Processes, Second Edition: With Applications To Signal Processing And Communications



## Synopsis

Probability and Random Processes, Second Edition presents pertinent applications to signal processing and communications, two areas of key interest to students and professionals in today's booming communications industry. The book includes unique chapters on narrowband random processes and simulation techniques. It also describes applications in digital communications, information theory, coding theory, image processing, speech analysis, synthesis and recognition, and others. Exceptional exposition and numerous worked out problems make this book extremely readable and accessible. The authors connect the applications discussed in class to the textbook. The new edition contains more real world signal processing and communications applications. It introduces the reader to the basics of probability theory and explores topics ranging from random variables, distributions and density functions to operations on a single random variable. There are also discussions on pairs of random variables; multiple random variables; random sequences and series; random processes in linear systems; Markov processes; and power spectral density. This book is intended for practicing engineers and students in graduate-level courses in the topic. Exceptional exposition and numerous worked out problems make the book extremely readable and accessible. The authors connect the applications discussed in class to the textbook. The new edition contains more real world signal processing and communications applications. Includes an entire chapter devoted to simulation techniques.

## Book Information

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## Customer Reviews

"...a utilitarian toolkit, to help the reader learn how to solve problems, while skirting technical issues such as measure theory." --MathSciNet "...primarily focused toward undergraduate students in areas of electrical and computer engineering...the book is very well written and easy to read and follow." --Ali Esmaili, in TECHNOMETRICS, VOL. 47, 2005 "...very well written...I think this is a highly valuable textbook that is very recommendable for students, researchers as well as practitioners interested in signal processing and communications." --Stefan Reh, Carnegie Mellon University "...it is well written, providing the intended readership with tools and methods to study and solve problems concerning random signals and systems." --Evelyn Buckwar, Zentralblatt MATH Berlin "Electrical and computer engineers Miller (Texas A&M U.) and Childers (emeritus, U. of Florida) present a textbook for an upper-division undergraduate course in probability, or an introductory graduate course in random processes within an electrical engineering curriculum. Students are assumed to have the background appropriate to those levels. The area is primarily mathematical, but they treat the mathematics as a tool for engineers rather than a rigorous or elegant entity in its own right. They seek a balance between explaining elementary concepts clearly and providing enough depth that students can study modern communications systems, control systems, signal processing techniques, and other applications." --Reference and Research Book News, Inc.

Easily the worst textbook I've ever used. As a student that has actually done well in a statistics class that required the class despite this book, I could not recommend this book to anyone. The authors seemed to have been lazy in many areas and are rather condescending to the reader by saying "it can be easily shown that..." or "clearly [x] follows..." when many of the steps they are omitting are not intuitive. Additionally, many of the proofs in the book that are required for conceptual comprehension are omitted "as an exercise to the reader". Many of the exercises in the book are not natural extensions of material covered in the relevant sections.

Arrived way ahead of the stated time plus I love this book. ;)

Great book for the beginners in probability. Highly recommended

This is a nicely written book, aimed at electrical engineers and computer science majors at an upper undergraduate level. I found it intuitive and mathematically correct. However, has done it again and managed to ruin an otherwise good book with horrible quality on the kindle (kindle fire hd in my

case). Many of the equations are so small that you can barely read them. If you click on them to magnify, they show on a grey background and are so pixelated that they are unreadable. Authors, please do the tech world a favor and insist that formats your book correctly for the kindle.

I buy it for a related course at school. The book is in good quality and with a low price. It is useful for me. So i give five stars to it!

We have this book as the textbook for the course. This book does nothing to give you a 'feel' for what is happening; its just the same old formulas, some complicated worked examples and even more complicated exercises. Everybody, even high school students can solve problems involving sample spaces, events and their probabilities up to Baye's theorem. Its only when the concept of Random variables is introduced and moving further on with pairs of RV's and concepts of correlation, Random processes and concepts of stationary, ergodic processes, that things get complicated. Its important for a good book to explain these with simple examples to register the concept in the student's mind and then move on to more practical and complicated problems. Yates book is tremendous in this regard and I find Kay's intuitive probability book to be good too. The book in question loses the plot when pairs of RV's and multiples RV's are dealt with, and this trend continues to the end of the book.

I purchased the older edition and have reviewed that book. I am now looking at this edition and feel disappointed that it has only one review and that not on the content. This is not a 3-star book. This is an excellent book, for classroom use or for your reference purposes. At this cut rate price, it is an amazing bargain. Get one immediately. Charan Langton

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