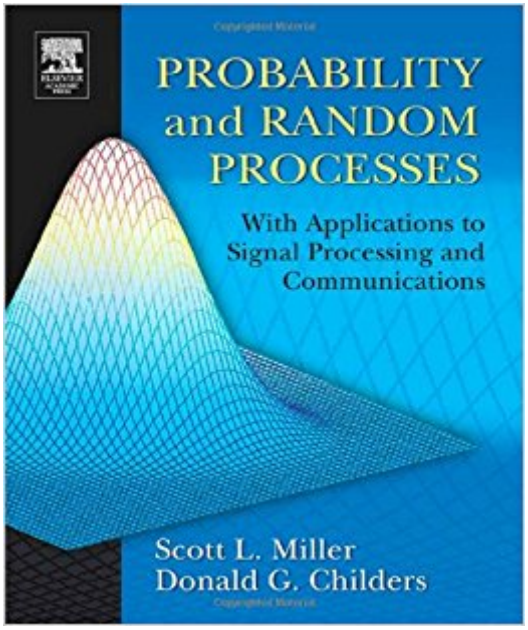
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Probability And Random Processes: With Applications To Signal Processing And Communications



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Synopsis

Probability and Random Processes provides a clear presentation of foundational concepts with specific applications to signal processing and communications, clearly the two areas of most interest to students and instructors in this course. It includes unique chapters on narrowband random processes and simulation techniques. It also includes applications in digital communications, information theory, coding theory, image processing, speech analysis, synthesis and recognition, and other fields. The appendices provide a refresher in such areas as linear algebra, set theory, random variables, and more. Exceptional exposition and numerous worked out problems make the book extremely readable and accessible. It is meant for practicing engineers as well as graduate students.Exceptional exposition and numerous worked out problems make the book extremely readable and accessibleThe authors connect the applications discussed in class to the textbookThe new edition contains more real world signal processing and communications applicationsIncludes an entire chapter devoted to simulation techniques

Book Information

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Customer Reviews

"...primarily focused toward undergraduate students in areas of electrical and computer engineering...the book is very well written and wasy 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

The authors have focussed on creating a more level presentation and have developed more pertinent applications to signal processing and communications, clearly the two areas of most interest to students andinstructors in this course.

I have been reading about spectral estimation lately and accidentally found this book. I looked through the rest of the book which looks quite reader friendly but really got me was chapter 10 on Power Spectral density. This seemingly simple subject is really quite confusing what with deterministic signals, random ones, periodogram and correlogram and then many variants both parametric and non-parametric. They derive an equivalence between the periodogram and the correlation method showing exactly when that is so. The authors do a superb job, the best I have seen on the topic. Very impressive book.Charan Langton - complextoreal.com

This book is excellent. All topics are fully explained in a relaxed, conversational style. Many clear, fully worked examples supplement the reading. The topics are well organized. There is a definite "and here is where this is used in practice" and "here is the important concept to remember" tone throughout the book that is very helpful. I highly recommend this text to both students and those who are learning on their own.

It was a gift, they liked it a lot, works great. very fast, receive it next day. very comfortable and very fine . would purchase again. send it to my teacher as a gift,

This is one of the worst texts I’ve had to use in my 6 years of engineering education. There are almost no relevant examples in this book and the homework problems stray far from the material in the text. Many fundamental steps are glossed over or skipped, leaving the student without the intuition to solve problems that stray from the norm.

A very nice textbook. Very clear and rich in examples. Ideal to support graduate courses on Probability and Stochastic Processes.

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