



Probability and Random Processes: With Applications to Signal Processing and Communications

By Scott Miller, Donald Childers

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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.

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Review

"...a utilitarian toolkit, to help the reader learn how to solve problems, while skirting technical issues such as measure theory...fills a particular niche in the literature, and is certainly recommended by me." --

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"...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.**

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