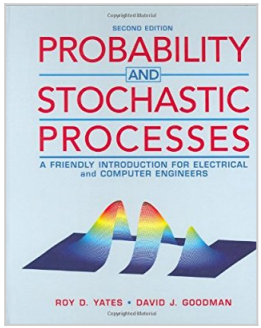

Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers

By Roy D. Yates, David J. Goodman

Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman

This user-friendly resource will help you grasp the concepts of probability and stochastic processes, so you can apply them in professional engineering practice. The book presents concepts clearly as a sequence of building blocks that are identified either as an axiom, definition, or theorem. This approach provides a better understanding of the material, which can be used to solve practical problems.

Key Features:

- The text follows a single model that begins with an experiment consisting of a procedure and observations.
- The mathematics of discrete random variables appears separately from the mathematics of continuous random variables.
- Stochastic processes are introduced in Chapter 6, immediately after the presentation of discrete and continuous random variables. Subsequent material, including central limit theorem approximations, laws of large numbers, and statistical inference, then use examples that reinforce stochastic process concepts.
- An abundance of exercises are provided that help students learn how to put the theory to use.

Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers

By Roy D. Yates, David J. Goodman

Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers
By Roy D. Yates, David J. Goodman

This user-friendly resource will help you grasp the concepts of probability and stochastic processes, so you can apply them in professional engineering practice. The book presents concepts clearly as a sequence of building blocks that are identified either as an axiom, definition, or theorem. This approach provides a better understanding of the material, which can be used to solve practical problems.

Key Features:

- The text follows a single model that begins with an experiment consisting of a procedure and observations.
- The mathematics of discrete random variables appears separately from the mathematics of continuous random variables.
- Stochastic processes are introduced in Chapter 6, immediately after the presentation of discrete and continuous random variables. Subsequent material, including central limit theorem approximations, laws of large numbers, and statistical inference, then use examples that reinforce stochastic process concepts.
- An abundance of exercises are provided that help students learn how to put the theory to use.

Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman Bibliography

- Sales Rank: #411567 in Books
- Published on: 2004-05-20
- Original language: English
- Number of items: 1
- Dimensions: 9.31" h x .95" w x 7.68" l, 2.19 pounds
- Binding: Hardcover
- 544 pages

Editorial Review

From the Back Cover
Clear, engaging, and always friendly

Maintaining their highly popular, user-friendly approach, Roy Yates and David Goodman demystify probability unlike any other text today. The authors help you develop an intuitive grasp of the principles of probability and stochastic processes, allowing you to successfully solve basic engineering problems using these principles... with a smile.

The authors present the principles of probability and stochastic processes as a logical sequence of building blocks that are clearly identified as an axiom, definition, or theorem. For each new principle, examples illustrate the application of the mathematics to engineering problems. You'll also have many opportunities for practice.

Now revised, this Second Edition features a new chapter on random vectors, expanded coverage of the applications of probability, a streamlined presentation of Markov chains and elementary queuing theory, and a tutorial in each chapter on using MATLAB.

With this text, you'll be able to:

- Develop an intuitive understanding of the concepts.
- Follow a single clear model that begins with an experiment consisting of a procedure and observations.
- Put the theory into practice with an extensive collection of exercises (examples, quizzes, and homework problems).
- Gain hands-on experience with MATLAB applications.
- Master basic principles without the confusion of learning two different ways of calculating probabilities and averages at the same time. (Discrete and continuous random variables are treated separately.)

About the Author
Dr. Roy Yates received the B.S.E. degree in 1983 from Princeton University, and the S.M. and Ph.D. degrees in 1986 and 1990 from M.I.T., all in Electrical Engineering. Since 1990, he has been with the Wireless Information Networks Laboratory (WINLAB) and the ECE department at Rutgers, University. He is currently an associate professor.

David J. Goodman is Director of WINLAB and a Professor of Electrical and Computer Engineering at Rutgers University. Before coming to Rutgers, he enjoyed a twenty year research career at Bell Labs where he was a Department Head in Communications Systems Research. He has made fundamental contributions to digital signal processing, speech coding, and wireless information networks.

Users Review

From reader reviews:

Karen Ruiz:

Do you have favorite book? In case you have, what is your favorite's book? E-book is very important thing for us to know everything in the world. Each guide has different aim or goal; it means that e-book has different type. Some people truly feel enjoy to spend their a chance to read a book. These are reading whatever they acquire because their hobby is reading a book. What about the person who don't like looking at a book? Sometime, particular person feel need book when they found difficult problem or perhaps exercise. Well, probably you'll have this Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers.

Charles Thomas:

Now a day individuals who Living in the era where everything reachable by connect with the internet and the resources inside can be true or not require people to be aware of each details they get. How many people to be smart in receiving any information nowadays? Of course the solution is reading a book. Reading a book can help individuals out of this uncertainty Information especially this Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers book because this book offers you rich facts and knowledge. Of course the info in this book hundred per cent guarantees there is no doubt in it everbody knows.

Brandy Brobst:

That guide can make you to feel relax. This specific book Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers was colourful and of course has pictures on the website. As we know that book Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers has many kinds or genre. Start from kids until adolescents. For example Naruto or Investigator Conan you can read and feel that you are the character on there. So , not at all of book are usually make you bored, any it offers you feel happy, fun and rest. Try to choose the best book for yourself and try to like reading which.

Alan Sarno:

As a college student exactly feel bored to be able to reading. If their teacher expected them to go to the library in order to make summary for some book, they are complained. Just small students that has reading's spirit or real their passion. They just do what the professor want, like asked to the library. They go to at this time there but nothing reading really. Any students feel that reading is not important, boring and can't see colorful pictures on there. Yeah, it is to get complicated. Book is very important in your case. As we know that on this age, many ways to get whatever you want. Likewise word says, many ways to reach Chinese's country. So , this Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers can make you truly feel more interested to read.

Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman #ICMVTR03LSN

Read Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman for online ebook

Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman books to read online.

Online Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman ebook PDF download

Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman Doc

Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman Mobipocket

Probability and Stochastic Processes: A Friendly Introduction for Electrical and Computer Engineers By Roy D. Yates, David J. Goodman EPub