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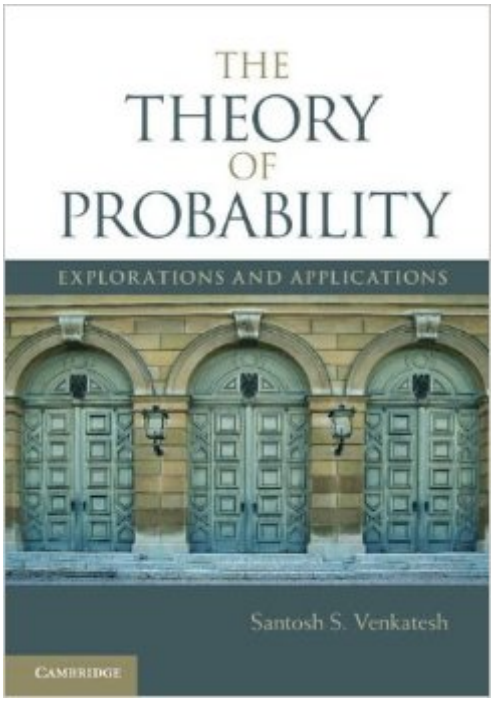
The Theory Of Probability: Explorations And Applications



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Synopsis

From classical foundations to advanced modern theory, this self-contained and comprehensive guide to probability weaves together mathematical proofs, historical context and richly detailed illustrative applications. A theorem discovery approach is used throughout, setting each proof within its historical setting and is accompanied by a consistent emphasis on elementary methods of proof. Each topic is presented in a modular framework, combining fundamental concepts with worked examples, problems and digressions which, although mathematically rigorous, require no specialised or advanced mathematical background. Augmenting this core material are over 80 richly embellished practical applications of probability theory, drawn from a broad spectrum of areas both classical and modern, each tailor-made to illustrate the magnificent scope of the formal results. Providing a solid grounding in practical probability, without sacrificing mathematical rigour or historical richness, this insightful book is a fascinating reference and essential resource, for all engineers, computer scientists and mathematicians.

Book Information

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Customer Reviews

I bought this book right after I completed the coursera online course Probability offered by Univ of Penn Professor Venkatesh. For me, it was the greatest series of speeches since Lincoln’s Cooper Union address. Dr. Venkatesh’s command of English, and his full force of reasoning and logic, is a wonder to behold.Now back to the book. It is not possible to overstate how good this book is. I tried to give it 10 stars, five is an insult.You have taken all the lower division courses in engineering or

computer science, data structure, algorithm, programming languages, a little probability in discrete math, linear algebra, or whatever they do at your institution of higher learning. You can write a mobile application and show your grandma how cool that works on her smart phone. Now it’s time to get serious. you are thirsty for something meatier and more intellectual.Get this book. Start at page one. Read until you come to the word Example or Theorem. Do not read the solution or proof. Solve or prove it yourself. Or at least try. If you get stuck read a line or two until you see what to do.Thrust, repeat.If you make it through the first six or seven chapters like this then there shall be no power in the universe that can stop you. Enjoy graduate school. You are half way there.Some people complain about this book not practical enough for engineers. Don’t listen to them. They are just trying to pull you down and keep you from your true destiny. They are the same people who try to sell you TV and lobotomies."but this book is one that few besides mathematicians will appreciate. Engineers and other practical-minded folks should take his course but lookfor another book..."Not appreciated?

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