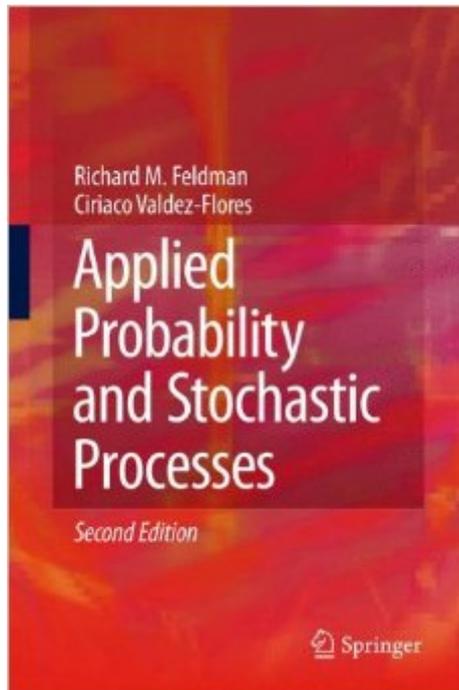


The book was found

# Applied Probability And Stochastic Processes



## Synopsis

This book is a result of teaching stochastic processes to junior and senior undergraduates and beginning graduate students over many years. In teaching such a course, we have realized a need to furnish students with material that gives a mathematical presentation while at the same time providing proper foundations to allow students to build an intuitive feel for probabilistic reasoning. We have tried to maintain a balance in presenting advanced but understandable material that sparks an interest and challenges students, without the discouragement that often comes as a consequence of not understanding the material. Our intent in this text is to develop stochastic processes in an elementary but mathematically precise style and to provide sufficient examples and homework exercises that will permit students to understand the range of application areas for stochastic processes. We also practice active learning in the classroom. In other words, we believe that the traditional practice of lecturing continuously for 50 to 75 minutes is not a very effective method for teaching. Students should somehow engage in the subject matter during the teaching session. One effective method for active learning is, after at most 20 minutes of lecture, to assign a small example problem for the students to work and one important tool that the instructor can utilize is the computer. Sometimes we are fortunate to lecture students in a classroom containing computers with a spreadsheet program, usually Microsoft's Excel.

## Book Information

Hardcover: 397 pages

Publisher: Springer; 2nd ed. 2010 edition (January 14, 2010)

Language: English

ISBN-10: 3642051553

ISBN-13: 978-3642051555

Product Dimensions: 6.1 x 0.9 x 9.2 inches

Shipping Weight: 1.6 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (1 customer review)

Best Sellers Rank: #1,033,741 in Books (See Top 100 in Books) #101 in [Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Economics](#) #236 in [Books > Computers & Technology > Computer Science > Computer Simulation](#) #283 in [Books > Business & Money > Management & Leadership > Project Management > Technical](#)

## Customer Reviews

This book is excellent for engineers. This is one of very few grad-level textbooks that show numerical

examples. It covers the standard topics of stochastic processes (Markov chain, queuing theory). I see a lot of other applied books (i.e. having title "... for engineers") covers more about multiple random variables and barely touches Markov chain. This is the right book covers the right topics. This book is similar to "Probability Model" by Ross. It covers the same topics with application-oriented approach. However, Feldman's book contains much better examples that actually help students to understand the materials. Overall, the best textbook on stochastic processes.

[Download to continue reading...](#)

Applied Probability and Stochastic Processes Monte Carlo Methods in Financial Engineering (Stochastic Modelling and Applied Probability) (v. 53) Essentials of Stochastic Processes (Springer Texts in Statistics) Applied Econometric Time Series (Wiley Series in Probability and Statistics) Statistical Learning with Sparsity: The Lasso and Generalizations (Chapman & Hall/CRC Monographs on Statistics & Applied Probability) Branching Processes in Biology (Interdisciplinary Applied Mathematics) Environment Learning for Indoor Mobile Robots: A Stochastic State Estimation Approach to Simultaneous Localization and Map Building (Springer Tracts in Advanced Robotics) Statistical Mechanics, Kinetic Theory and Stochastic Process Case Studies in Certified Quantitative Risk Management (CQRM): Applying Monte Carlo Risk Simulation, Strategic Real Options, Stochastic Forecasting, ... Business Intelligence, and Decision Modeling Level Crossing Methods in Stochastic Models (International Series in Operations Research & Management Science) Stochastic Oscillator Trading Indicator - Determine Market Extremes (Trend Following Mentor) Stochastic Calculus for Finance II: Continuous-Time Models (Springer Finance) Probability and Statistics for Engineering and the Sciences An Introduction to Probability and Inductive Logic Probability and Measure Higher Probability Commodity Trading: A Comprehensive Guide to Commodity Market Analysis, Strategy Development, and Risk Management Techniques Aimed at Favorably Shifting the Odds of Success High Probability Trading Strategies: Entry to Exit Tactics for the Forex, Futures, and Stock Markets Introduction to Probability Models: Operations Research, Volume II (with CD-ROM and InfoTrac) Analysis of Financial Time Series (Wiley Series in Probability and Statistics) Probability, Random Variables, And Random Signal Principles

[Dmca](#)