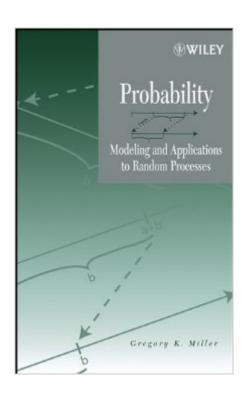
## The book was found

# Probability: Modeling And Applications To Random Processes





## **Synopsis**

Improve Your Probability of Mastering This Topic This book takes an innovative approach to calculus-based probability theory, considering it within a framework for creating models of random phenomena. The author focuses on the synthesis of stochastic models concurrent with the development of distribution theory while also introducing the reader to basic statistical inference. In this way, the major stochastic processes are blended with coverage of probability laws, random variables, and distribution theory, equipping the reader to be a true problem solver and critical thinker. Deliberately conversational in tone, Probability is written for students in junior- or senior-level probability courses majoring in mathematics, statistics, computer science, or engineering. The book offers a lucid and mathematically sound introduction to how probability is used to model random behavior in the natural world. The text contains the following chapters: \* Modeling \* Sets and Functions \* Probability Laws I: Building on the Axioms \* Probability Laws II: Results of Conditioning \* Random Variables and Stochastic Processes \* Discrete Random Variables and Applications in Stochastic Processes \* Continuous Random Variables and Applications in Stochastic Processes \* Covariance and Correlation Among Random Variables Included exercises cover a wealth of additional concepts, such as conditional independence, Simpson's paradox, acceptance sampling, geometric probability, simulation, exponential families of distributions, Jensen's inequality, and many non-standard probability distributions.

#### **Book Information**

Hardcover: 488 pages

Publisher: Wiley-Interscience; 1 edition (August 25, 2006)

Language: English

ISBN-10: 0471458929

ISBN-13: 978-0471458920

Product Dimensions: 6.5 x 1.1 x 9.4 inches

Shipping Weight: 1.7 pounds (View shipping rates and policies)

Average Customer Review: 4.5 out of 5 stars Â See all reviews (2 customer reviews)

Best Sellers Rank: #1,309,708 in Books (See Top 100 in Books) #128 in Books > Science &

Math > Mathematics > Applied > Stochastic Modeling #3321 in Books > Textbooks > Science &

Mathematics > Mathematics > Statistics #4866 in Books > Science & Math > Mathematics >

Applied > Probability & Statistics

### **Customer Reviews**

Much of the material here is well covered in other texts on probability. But Miller gives more emphasis on the modelling aspect. For this, the book has examples of some rather obscure probability distributions, that other, more standard texts tend to omit. Which is one attraction of the book. But the main value of the book might be when we get past the introductory material about simple probability concepts. And where we deal with actually trying to model a given random process. For you as a researcher, what you deal with might not be in any of the textbooks. So how can you find an existing distribution, or, more to the point, make up one, that fits your data? A lot of books are frustratingly useless on this aspect. But Miller at least has some material that is informative.

This book is a great read. The book explains probability at a very accessible level. And the questions at the end of the chapter will really gauge your understanding. I have the author of the book as a professor and the book reads just like he talks. Very interesting and very passionate about his subject. I recommend this text book to anyone trying to learn probability.

#### Download to continue reading...

Probability: Modeling and Applications to Random Processes Probability, Random Variables and Stochastic Processes Elementary Stochastic Calculus With Finance in View (Advanced Series on Statistical Science & Applied Probability, Vol 6) (Advanced Series on Statistical Science and Applied Probability) Random House Webster's Word Menu (Random House Newer Words Faster) Concepts in Probability and Stochastic Modeling (An Alexander Kugushev Book) Uncertainty: The Soul of Modeling, Probability & Statistics Random Processes for Engineers Random Processes in Linear Systems Stochastic Integration in Banach Spaces: Theory and Applications (Probability Theory and Stochastic Modelling) Student Solutions Manual for Differential Equations: Computing and Modeling and Differential Equations and Boundary Value Problems: Computing and Modeling The Theory of Probability: Explorations and Applications Introduction to Stochastic Integration (Probability and Its Applications) Mathematical Modeling of Collective Behavior in Socio-Economic and Life Sciences (Modeling and Simulation in Science, Engineering and Technology) Matrices With Applications in Statistics (Wadsworth statistics/probability series) Microsoft Excel 2013 Data Analysis and Business Modeling: Data Analysis and Business Modeling (Introducing) Introduction to the Numerical Modeling of Groundwater and Geothermal Systems: Fundamentals of Mass, Energy and Solute Transport in Poroelastic Rocks (Multiphysics Modeling) Geochemical Modeling of Groundwater, Vadose and Geothermal Systems (Multiphysics Modeling) 3D Modeling For Beginners: Learn everything you need to know about 3D Modeling! Label Embellishments and Special Applications:

Exploring the techniques and processes used for adding decorative finishes and functionality to labels Gasification: Chemistry, Processes and Applications (Energy Science, Engineering and Technology)

<u>Dmca</u>