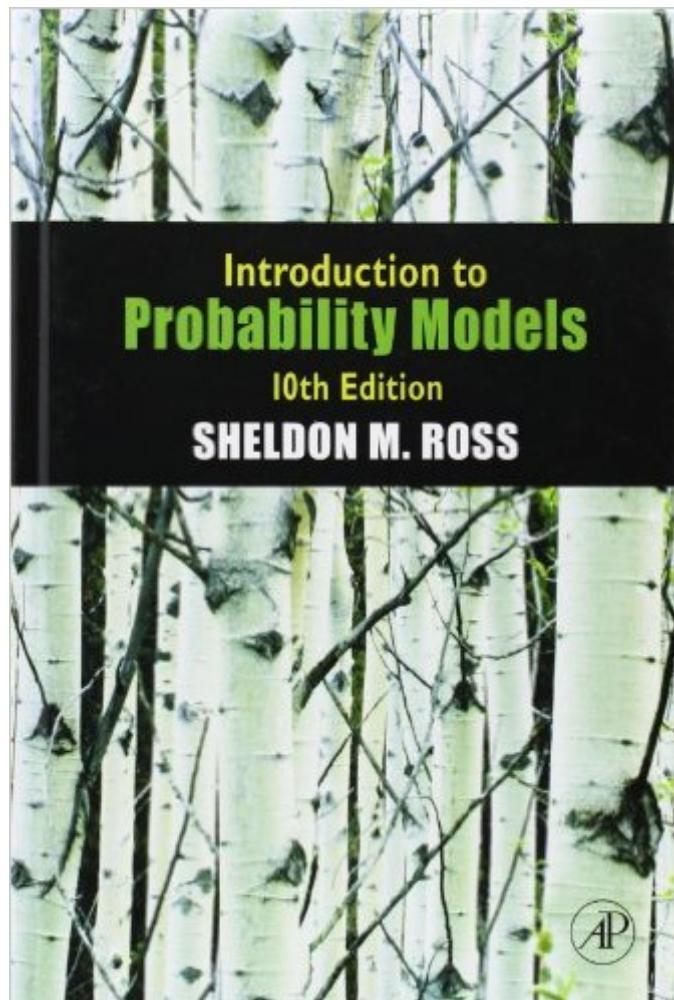


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# Introduction To Probability Models, Tenth Edition



## Synopsis

Introduction to Probability Models, Tenth Edition, provides an introduction to elementary probability theory and stochastic processes. There are two approaches to the study of probability theory. One is heuristic and nonrigorous, and attempts to develop in students an intuitive feel for the subject that enables him or her to think probabilistically. The other approach attempts a rigorous development of probability by using the tools of measure theory. The first approach is employed in this text. The book begins by introducing basic concepts of probability theory, such as the random variable, conditional probability, and conditional expectation. This is followed by discussions of stochastic processes, including Markov chains and Poisson processes. The remaining chapters cover queuing, reliability theory, Brownian motion, and simulation. Many examples are worked out throughout the text, along with exercises to be solved by students. This book will be particularly useful to those interested in learning how probability theory can be applied to the study of phenomena in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Ideally, this text would be used in a one-year course in probability models, or a one-semester course in introductory probability theory or a course in elementary stochastic processes.

**New to this Edition:** 65% new chapter material including coverage of finite capacity queues, insurance risk models and Markov chains

Contains compulsory material for new Exam 3 of the Society of Actuaries containing several sections in the new exams

Updated data, and a list of commonly used notations and equations, a robust ancillary package, including a ISM, SSM, test bank, and companion website

Includes SPSS PASW Modeler and SAS JMP software packages which are widely used in the field

**Hallmark features:** Superior writing style

Excellent exercises and examples covering the wide breadth of coverage of probability topics

Real-world applications in engineering, science, business and economics

## Book Information

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## Customer Reviews

This book is best for those with some exposure to probability and statistics. If you've had science courses that used probability but you've never actually taken a probability course, then this book could be perfect. In my opinion, this text provides a strong foundation. It makes books like All of Statistics: A Concise Course in Statistical Inference (Springer Texts in Statistics), easier to use and harder to abuse.

**Pros:-** **Clarity:** There are no missing steps in the math, you don't have to doodle in the margins to derive the next equation. **- Mathematical ease:** This is calculus-based probability but the calculus is not difficult and the algebra is crystal clear. **- Completeness:** The book clearly presents core concepts concisely; it is not telegraphic. You will be introduced to probability distributions, conditional probability, Markov models, queuing theory, stochastic processing and methods for simulating distributions. **- Theory:** The text mentions or proves relevant theorems at the rate of 1 every 10 pages. The proofs were simple and the theorems are crucial - for introductory texts, that counts as theory for me. **- Examples:** There are many good examples that make it more memorable. **- Structure:** Overall, I thought the structure was good. As a novice, I particularly liked the 2nd chapter on random variables - a clean approach to various probability distributions, their parameters and functions. As a scientist, I was grateful for the clear introduction to queues and stochastic processes.

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