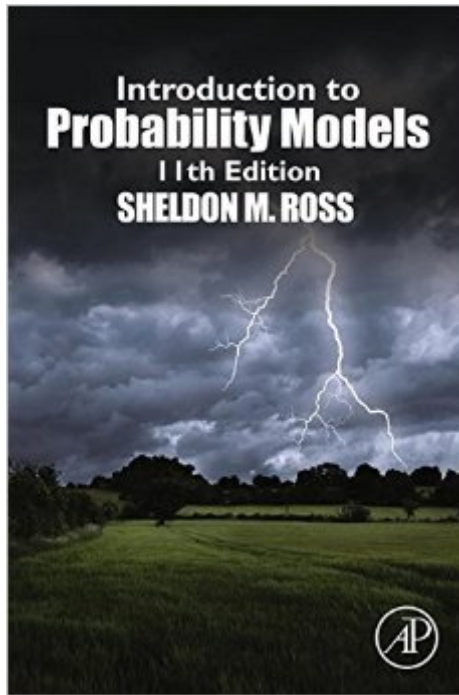


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# Introduction To Probability Models



## Synopsis

Sheldon Ross's classic bestseller, *Introduction to Probability Models*, has been used extensively by professionals and as the primary text for a first undergraduate course in applied probability. It introduces elementary probability theory and stochastic processes, and shows how probability theory can be applied in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. The hallmark features of this renowned text remain in this eleventh edition: superior writing style; excellent exercises and examples covering the wide breadth of coverage of probability topic; and real-world applications in engineering, science, business and economics. The 65% new chapter material includes coverage of finite capacity queues, insurance risk models, and Markov chains, as well as updated data. Updated data, and a list of commonly used notations and equations, instructor's solutions manual. Offers new applications of probability models in biology and new material on Point Processes, including the Hawkes process. Introduces elementary probability theory and stochastic processes, and shows how probability theory can be applied in fields such as engineering, computer science, management science, the physical and social sciences, and operations research. Covers finite capacity queues, insurance risk models, and Markov chains. Contains compulsory material for new Exam 3 of the Society of Actuaries including several sections in the new exams. Appropriate for a full year course, this book is written under the assumption that students are familiar with calculus.

## Book Information

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## Customer Reviews

This is a text written at an undergraduate level which assumes an excellent background in undergraduate probability (i.e., probability density functions, transformations of random variables, etc.) and some familiarity with matrix algebra. If you don't like mathematical equations, derivations and proofs using algebraic manipulation, you will hate this book. The book is written more like a manual of methods and their justifications; do not expect the author to hold your hand throughout every step in every derivation. Extremely comprehensive and very useful for anyone serious about studying probability.

This book is known to be one of the best textbooks available on the market. However, I think the reputation is exaggerated. Overall, the shortcomings of this book are 1. There are LOTS of examples.... However, each example uses different approach, so it is hard to see any logical similarities between examples. I felt that too many examples were randomly thrown to reader. 2. Absolutely no figure over entire book. No state diagram, probability distribution plot, or anything. 3. It book is excellent until Ch 4 (Markov Chain), explain in very clear words with many examples. Then, something strange happens: it starts to use more and more abstract variables and less and less examples. Further, most examples in later part are either derivation or generalization of theorem. On the other hand, the strength of the book is the end-of-chapter problems. Those problems are all engineering-style practical problems. IF(!) you have solutions manual, this book is THE BEST book to learn stochastic process.

Great text in probability, this is recommended reading in my Master's probability course. A lot of worked out examples, including Gambler's Ruin, Polya's Urn, others I don't know name too. It covers everything! :D

If you are interested in learning probability and stochastic processes, Ross is excellent. Enough said.

Everything ok.

Good read

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