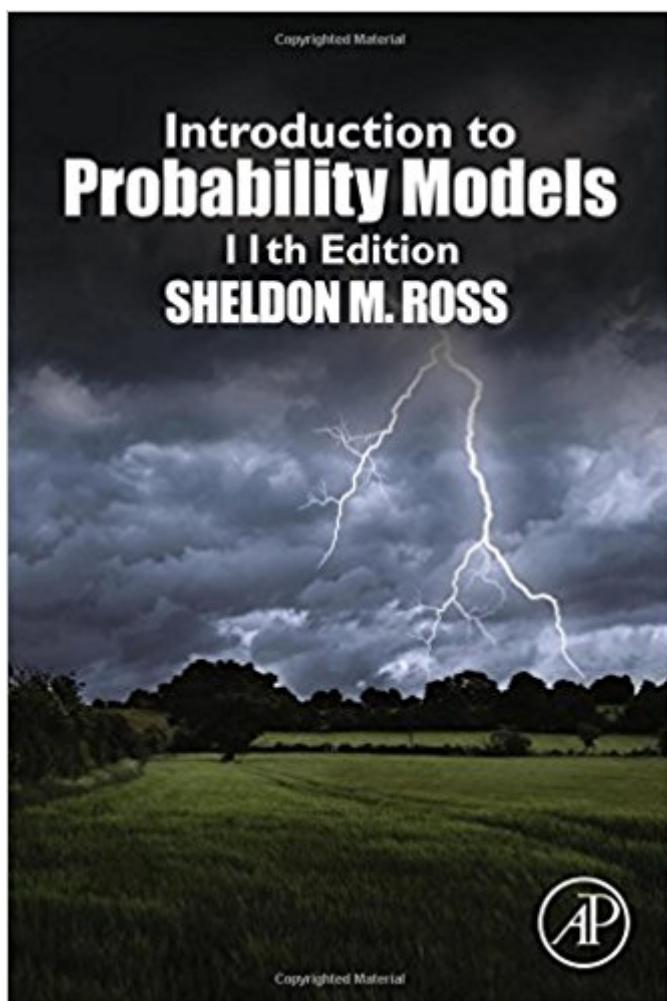


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# Introduction To Probability Models, Eleventh Edition



## Synopsis

Introduction to Probability Models, Eleventh Edition is the latest version of Sheldon Ross's classic bestseller, used extensively by professionals and as the primary text for a first undergraduate course in applied probability. The book introduces the reader to elementary probability theory and stochastic processes, and shows how probability theory can be applied fields such as engineering, computer science, management science, the physical and social sciences, and operations research. The hallmark features of this text have been retained 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. The book contains compulsory material for new Exam 3 of the Society of Actuaries including several sections in the new exams. It also presents new applications of probability models in biology and new material on Point Processes, including the Hawkes process. There is a list of commonly used notations and equations, along with an instructor's solutions manual. This text will be a helpful resource for professionals and students in actuarial science, engineering, operations research, and other fields in applied probability. Updated data, and a list of commonly used notations and equations, instructor's solutions manualOffers new applications of probability models in biology and new material on Point Processes, including the Hawkes processIntroduces 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 researchCovers 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 examsAppropriate 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

"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."--new chapter material includes coverage of finite capacity queues, insurance risk models, and Markov chains, as well as updated data."--Zentralblatt MATH 1284-1 "the newest edition updated with new examples and exercises, actuarial material, Hawkes and other point processes, Brownian motion, and expanded coverage of Markov chains. Although formally rigorous, the emphasis is on helping students to develop an intuitive sense for probabilistic thinking."--ProtoView.com, April 2014 Praise from Reviewers for the 10th edition: "I think Ross has done an admirable job of covering the breadth of applied probability. Ross writes fantastic problems which really force the students to think divergently...The examples, like the exercises are great."--Matt Carlton, California Polytechnic Institute "This is a fascinating introduction to applications from a variety of disciplines. Any curious student will love this book."--Jean LeMaire, University of Pennsylvania "This book may be a model in the organization of the education process. I would definitely rate this text to be the best probability models book at its level of difficulty...far more sophisticated and deliberate than its competitors."--Kris Ostaszewski, University of Illinois

Sheldon M. Ross is a professor in the Department of Industrial Engineering and Operations Research at the University of Southern California. He received his Ph.D. in statistics at Stanford University in 1968. He has published many technical articles and textbooks in the areas of statistics and applied probability. Among his texts are *A First Course in Probability*, *Introduction to Probability Models*, *Stochastic Processes*, and *Introductory Statistics*. Professor Ross is the founding and continuing editor of the journal *Probability in the Engineering and Informational Sciences*. He is a Fellow of the Institute of Mathematical Statistics, and a recipient of the Humboldt US Senior Scientist Award.

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.

The first four chapters alone (intro, random variables, conditional probability, markov chains) are worth the price of the book. The author packs each chapter with very interesting examples and problems. The one I found most interesting was his probabilistic analysis of the 2-SAT and SAT problems of computer science. Here he gives an informal math argument as to why 2-SAT is polynomial time decidable and why SAT should be intractable. On the other hand, I think someone relatively new to probability theory may find his neat problems and examples a bit too much with a first reading. The book is in its seventh edition, and I think Ross has taken advantage of this by providing newer insights and more interesting problems, but in doing so it may overwhelm the novice. If you are learning probability for the first or second time, I recommend you supplement this book with Roussas "A Course in Mathematical Statistics". Despite its title, the first 9 chapters give a calculus-based intro to probability. And the rest of the book is \*excellent\* for a calculus-based intro to statistics.

As with all his books, this one is clearly written, with wonderful examples, and an intuitive approach. I highly recommend it to anyone interested in understanding probability and stochastic processes.

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

Good read

great

Pretty good

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

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