Introduction to Probability Models

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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 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 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

Introduction to Probability Models Details

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Jette Stuart says

I'll be honest this course was the stuff of nightmares for many of us in Stochastic Processes. This book along with the solutions manual made all the difference. Perfect for those who learn by example.

Kalyani says

I gave up on Chapter 3. The examples are great (in quantity and scope), but it's not really an 'introduction', because the concepts are not very clearly explained, and the problems are very confusingly worded. Perhaps, that's because the book is a bit dated. I'm now looking at Blitzstein's intro, which seems to have a better explanation of the intuition behind probability. I'll come back to this eventually, I think.

Jeremy Dwyer says

Excellent treatment of all mathematical topics. One of my all time favorites.

Jette Stuart says

Sheldon Ross is a genius of our time. This is an excellent book for introduction to stochastic processes, a subject that I am sure most find challenging.

Jonas Moss says

One of the worst textbook I've used. He doesn't define terms properly, merge theorems and propositions with examples, and put far too much emphasis on the examples. If you want to learn Markov chain theory, use wikipedia instead.

Siah says

I love this book with every cell in my body. Have read it so many times and every time learned something new. You cannot work in the industry without reading this.

dead letter office says

a very basic and applied book on probability models. if it were me, i'd read drake's book on probability to get the basics and then go straight to a more advanced text on whatever you're interested in (markov chains or probability theory or stochastic processes or queuing theory or whatever) and skip this thing.