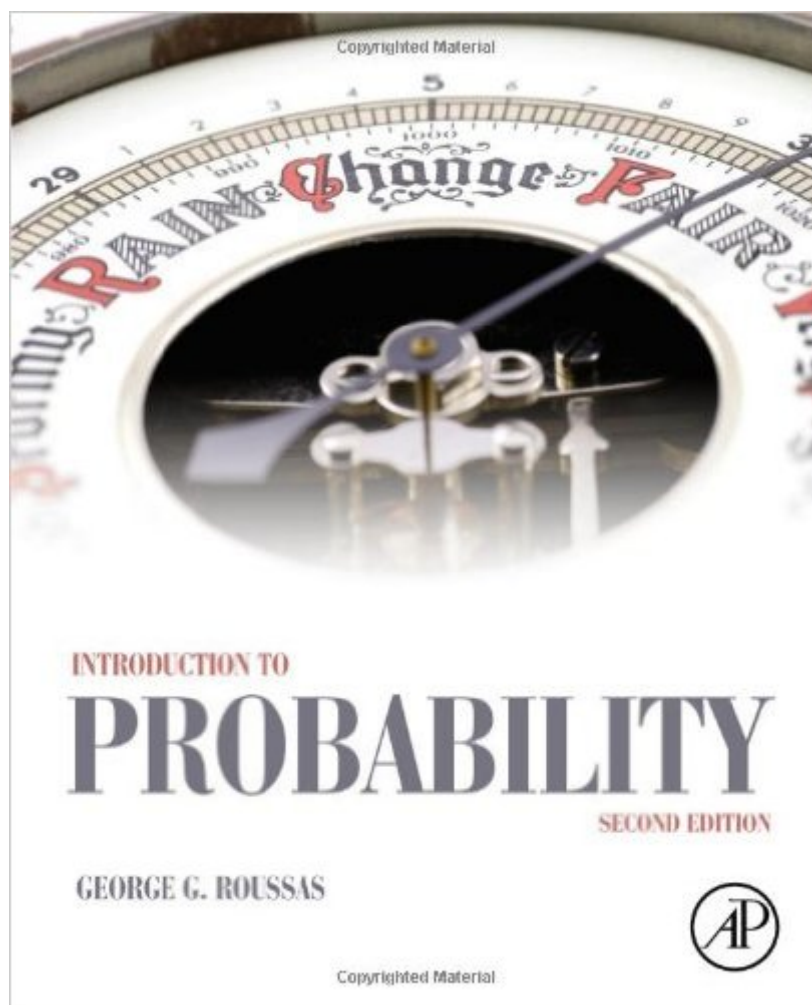


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# Introduction To Probability, Second Edition



## Synopsis

Introduction to Probability, Second Edition, is written for upper-level undergraduate students in statistics, mathematics, engineering, computer science, operations research, actuarial science, biological sciences, economics, physics, and some of the social sciences. With his trademark clarity and economy of language, the author explains important concepts of probability, while providing useful exercises and examples of real world applications for students to consider. After introducing fundamental probability concepts, the book proceeds to topics including special distributions, the joint probability density function, covariance and correlation coefficients of two random variables, and more. Demonstrates the applicability of probability to many human activities with examples and illustrations. Discusses probability theory in a mathematically rigorous, yet accessible way. Each section provides relevant proofs, and is followed by exercises and useful hints. Answers to even-numbered exercises are provided and detailed answers to all exercises are available to instructors on the book companion site.

## Book Information

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## Customer Reviews

This book is meant for an introductory course in probability based on a year-long course in calculus, and perhaps some linear algebra. The book deals, at the prescribed level, with all basics of probability in a truly systematic way. It starts out with a plethora of concrete examples to motivate the reader, and also demonstrate the applicability of probability in a great variety of human activities. It proceeds with the introduction of the necessary notation and concepts, including those of a

random experiment, random variable, probability, conditional probability, and numerical characteristics of a random variable. Then the necessity of considering more than one random variable is explained, and related concepts are introduced and basic results are derived. The concept of independence is also introduced and discussed, as well as the necessity of considering transformed random variables. The book is essentially concluded with the most important and classical results in probability, the so-called laws of large numbers and the central limit theorem. The book is a specimen of true systematic and logical reasoning, even at a level of rather modest mathematical background. An abundance of examples illustrate various aspects of the results discussed, and a significant number of exercises at the end of each section provide many additional practical applications of the theory developed. The book is a great contribution to the literature for a course in probability at the post calculus level. However, it is not meant for the reader whose interest is restricted to code names and framed formulas. Congratulations to the author!

It's a good textbook for statistics.

Good for starters

the boook came faster than expected and it was for a good price in addition to being new, this was a great buy

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