



# Probability: With Applications and R

*Robert P. Dobrow*

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## Probability: With Applications and R Robert P. Dobrow

An introduction to probability at the undergraduate level

Chance and randomness are encountered on a daily basis. Authored by a highly qualified professor in the field, *Probability: With Applications and R* delves into the theories and applications essential to obtaining a thorough understanding of probability.

With real-life examples and thoughtful exercises from fields as diverse as biology, computer science, cryptology, ecology, public health, and sports, the book is accessible for a variety of readers. The book's emphasis on simulation through the use of the popular R software language clarifies and illustrates key computational and theoretical results.

*Probability: With Applications and R* helps readers develop problem-solving skills and delivers an appropriate mix of theory and application. The book includes:

- Chapters covering first principles, conditional probability, independent trials, random variables, discrete distributions, continuous probability, continuous distributions, conditional distribution, and limits
- An early introduction to random variables and Monte Carlo simulation and an emphasis on conditional probability, conditioning, and developing probabilistic intuition
- An R tutorial with example script files
- Many classic and historical problems of probability as well as nontraditional material, such as Benford's law, power-law distributions, and Bayesian statistics
- A topics section with suitable material for projects and explorations, such as random walk on graphs, Markov chains, and Markov chain Monte Carlo
- Chapter-by-chapter summaries and hundreds of practical exercises

*Probability: With Applications and R* is an ideal text for a beginning course in probability at the undergraduate level.

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