PROBABILITY *and* STATISTICS *with* R

Since the publication of the popular first edition, the contributed R packages on CRAN have increased from around 1,000 to over 6,000. **Probability and Statistics with R, Second Edition** explores how some of these new packages make analysis easier and more intuitive as well as create more visually pleasing graphs.

New to the Second Edition

- Improvements to existing examples, problems, concepts, data, and functions
- New examples and exercises that use the most modern functions
- Coverage probability of a confidence interval and model validation
- Highlighted R code for calculations and graph creation

Keeping pace with today's statistical landscape, this textbook expands your knowledge of the practice of statistics. It effectively links statistical concepts with R procedures, empowering you to solve a vast array of real statistical problems with R.

Features

- Presents extensive treatments of data analysis using parametric and nonparametric techniques, including bootstrap
- Explains the design of experiments and regression analysis
- Shows you how to use readily available data from numerous sites
- Contains many real-world examples, case studies, worked-out derivations, and detailed graphs that facilitate hands-on comprehension
- Includes end-of-chapter exercises that teach you how to solve problems by hand and using R
- Provides the PASWR2 package of data sets and functions on CRAN

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