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the practice of statistics. The author stresses analysis of data, examines real problems with real data, and motivates the theory. The book's descriptive statistics, graphical displays, and realistic applications stand in strong contrast to traditional texts that are set in abstract settings. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version. Mathematical Statistics with Applications in R, Second Edition, offers a modern calculus-based theoretical introduction to mathematical

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A Programmed Study Guide for Introduction to Probability and Statistics, Second Edition, by

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methods and applications of statistics. From simple, clear explanations, students learn not only how to reason statistically, but also how to correctly interpret statistical results. The authors emphasize how to: Apply statistical procedures, uncover the meaning of statistical research in terms of their practical applications, evaluate the validity of assumptions behind statistical tests, determine what to do when those assumptions have been violated, and meaningfully describe real data sets. This book is a fresh approach to a calculus based, first

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course in probability and statistics, using R throughout to give a central role to data and simulation. The book introduces probability with Monte Carlo simulation as an essential tool. Simulation makes challenging probability questions quickly accessible and easily understandable. Mathematical approaches are included, using calculus when appropriate, but are always connected to experimental computations. Using R and simulation gives a nuanced understanding of statistical inference. The impact of departure from assumptions in statistical tests is emphasized,

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quantified using simulations, and demonstrated with real data. The book compares parametric and non-parametric methods through simulation, allowing for a thorough investigation of testing error and power. The text builds R skills from the outset, allowing modern methods of resampling and cross validation to be introduced along with traditional statistical techniques. Fifty-two data sets are included in the complementary R package fosdata. Most of these data sets are from recently published papers, so that you

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are working with current, real data, which is often large and messy. Two central chapters use powerful tidyverse tools (`dplyr`, `ggplot2`, `tidyr`, `stringr`) to wrangle data and produce meaningful visualizations.

Preliminary versions of the book have been used for five semesters at Saint Louis University, and the majority of the more than 400 exercises have been classroom tested.

Provides TI-83 graphing calculator instructions for the examples in the text.

Theory and Applications

Introduction to probability and statistics

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the statistical tests mean in terms of their practical applications, how to evaluate the validity of the assumptions behind statistical tests and what to do when statistical assumptions have been violated. The new edition strives to simplify the language of the exposition, examples and exercises, while retaining the statistical integrity that has made this text a market leader--and builds upon this tradition of excellence with new technology integration. The Student Solutions Manual provides students with fully worked out solutions to the exercises with blue exercise numbers and headings in the text.

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