Introductory Statistics with R (Statistics and Computing)

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R is an Open Source implementation of the S language. It works on multiple computing platforms and can be freely downloaded. R is now in widespread use for teaching at many levels as well as for practical data analysis and methodological development.

This book provides an elementary-level introduction to R, targeting both non-statistician scientists in various fields and students of statistics. The main mode of presentation is via code examples with liberal commenting of the code and the output, from the computational as well as the statistical viewpoint. A supplementary R package can be downloaded and contains the data sets.

The statistical methodology includes statistical standard distributions, one- and two-sample tests with continuous data, regression analysis, one- and two-way analysis of variance, regression analysis, analysis of tabular data, and sample size calculations. In addition, the last six chapters contain introductions to multiple linear regression analysis, linear models in general, logistic regression, survival analysis, Poisson regression, and nonlinear regression.

In the second edition, the text and code have been updated to R version 2.6.2. The last two methodological chapters are new, as is a chapter on advanced data handling. The introductory chapter has been extended and reorganized as two chapters. Exercises have been revised and answers are now provided in an Appendix.

Introductory Statistics with R (Statistics and Computing) Details

Date   : Published February 10th 2004 by Springer (first published January 1st 2002)
ISBN   : 9780387954752
Author : Peter Dalgaard
Format : Paperback 267 pages
Genre : Science, Mathematics, Reference, Computer Science, Programming, Textbooks, Nonfiction

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Mike says

Nothin' but love for R.

Julia Colleen says

This is by far the best 'how-to-use-"R"' book... ever!
I highly recommend going through all of the exercises in the book. The data comes with the basic "R" download in the 'ISwR' library.

Jyotika Varmani says

Though the book is very informative, I still found it to be at a difficulty level not suitable to the beginner. R is quite complicated anyway. The instructions to make use of it need to be put as simply as possible.

Nonetheless, the book is well organized, and detailed. A good textbook.

Yuta Tamberg says

Not only a good starting point, but also pretty useful handbook

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Terran M says

If you already understand the concepts of frequentist statistics, this book will clearly show you how to apply them using R, and get you from zero to a place where you can comfortably learn more from the online documentation. The book is clearly written and has copious examples; the explanations of the meaning of the output is often better than the library documentation. The chapter on manipulating data in R is particularly strong with both clear exposition and a good selection of what to cover to help statisticians become productive.

However, the explanation of the statistics is very brief and entirely unsuitable for novices. When I ran into a few things I was already not familiar with, the explanations were too condensed and I had to look them up elsewhere to understand. If you do not already know statistics well, reading this book will result only in frustration. For people who have no statistics background, I think I would recommend starting with Baclawski's "Introduction to Probability with R" or "OpenIntro Statistics" by Diez et al.