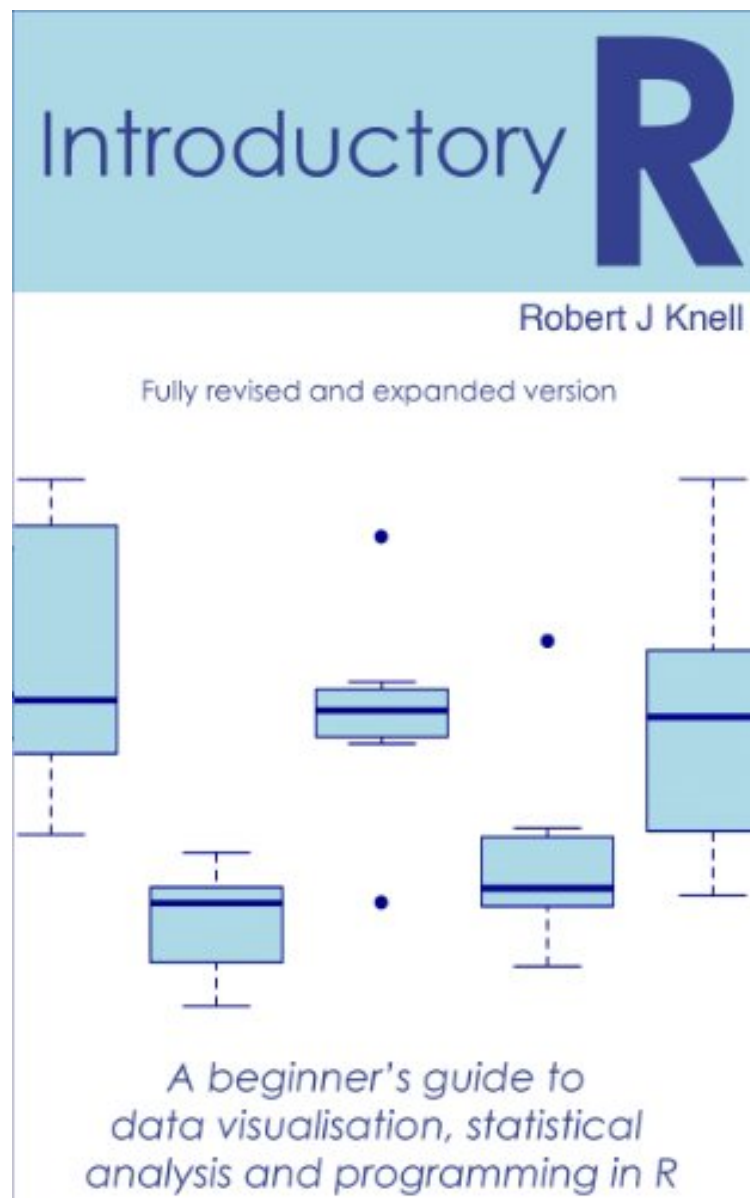


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Introductory R: A Beginner's Guide to Data Visualisation, Statistical Analysis and Programming in R (English Edition)

Von Robert Knell

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Von Robert Knell : Introductory R: A Beginner's Guide to Data Visualisation, Statistical Analysis and Programming in R (English Edition) before purchasing it in order to gage whether or not it would be worth my time, and all praised Introductory R: A Beginner's Guide to Data Visualisation, Statistical Analysis and Programming

in R (English Edition):

KundenrezensionenHilfreichste Kundenrezensionen0 von 0 Kunden fanden die folgende Rezension hilfreich. Ein wirklicher Beginners GuideVon AmaryllisHatte man noch nichts damit zu tun, ist man hier genau richtig. Hat man schon Vorkenntnisse, muss man ein bisschen blttern, bis man die fr einen selbst interessanten Sachen findet. Jedoch fr das Geld ein hervorragendes Anleitungsbuch.

KurzbeschreibungR is now the most widely used statistical software in academic science and it is rapidly expanding into other fields such as finance. R is almost limitlessly flexible and powerful, hence its appeal, but can be very difficult for the novice user. There are no easy pull-down menus, error messages are often cryptic and simple tasks like importing your data or exporting a graph can be difficult and frustrating. Introductory R is written for the novice user who knows a little about statistics but who hasn't yet got to grips with the ways of R. This new edition is completely revised and greatly expanded with new chapters on the basics of descriptive statistics and statistical testing, considerably more information on statistics and six new chapters on programming in R. Topics covered include1) A walkthrough of the basics of R's command line interface 2) Data structures including vectors, matrices and data frames3) R functions and how to use them4) Expanding your analysis and plotting capacities with add-in R packages5) A set of simple rules to follow to make sure you import your data properly6) An introduction to the script editor and advice on workflow7) A detailed introduction to drawing publication-standard graphs in R 8) How to understand the help files and how to deal with some of the most common errors that you might encounter.9) Basic descriptive statistics10) The theory behind statistical testing and how to interpret the output of statistical tests11) Thorough coverage of the basics of data analysis in R with chapters on using chi-squared tests, t-tests, correlation analysis, regression, ANOVA and general linear models12) What the assumptions behind the analyses mean and how to test them using diagnostic plots13) Explanations of the summary tables produced for statistical analyses such as regression and ANOVA14) Writing functions in R15) Using table operations to manipulate matrices and data frames16) Using conditional statements and loops in R programmes.17) Writing longer R programmes.The techniques of statistical analysis in R are illustrated by a series of chapters where experimental and survey data are analysed. There is a strong emphasis on using real data from real scientific research, with all the problems and uncertainty that implies, rather than well-behaved made-up data that give ideal and easy to analyse results. KurzbeschreibungR is now the most widely used statistical software in academic science and it is rapidly expanding into other fields such as finance. R is almost limitlessly flexible and powerful, hence its appeal, but can be very difficult for the novice user. There are no easy pull-down menus, error messages are often cryptic and simple tasks like importing your data or exporting a graph can be difficult and frustrating. Introductory R is written for the novice user who knows a little about statistics but who hasn't yet got to grips with the ways of R. This new edition is completely revised and greatly expanded with new chapters on the basics of descriptive statistics and statistical testing, considerably more information on statistics and six new chapters on programming in R. Topics covered include1) A walkthrough of the basics of R's command line interface 2) Data structures including vectors, matrices and data frames3) R functions and how to use them4) Expanding your analysis and plotting capacities with add-in R packages5) A set of simple rules to follow to make sure you import your data properly6) An introduction to the script editor and advice on workflow7) A detailed introduction to drawing publication-standard graphs in R 8) How to understand the help files and how to deal with some of the most common errors that you might encounter.9) Basic descriptive statistics10) The theory behind statistical testing and how to interpret the output of statistical tests11) Thorough coverage of the basics of data analysis in R with chapters on using chi-squared tests, t-tests, correlation analysis, regression, ANOVA and general linear models12) What the assumptions behind the analyses mean and how to test them using diagnostic plots13) Explanations of the summary tables produced for statistical analyses such as regression and ANOVA14) Writing functions in R15) Using table operations to manipulate matrices and data frames16) Using conditional statements and loops in R programmes.17) Writing longer R programmes.The techniques of statistical analysis in R are illustrated by a series of chapters where experimental and survey data are analysed. There is a strong emphasis on using real data from real scientific research, with all the problems and uncertainty that implies, rather than well-behaved made-up data that give ideal and easy to analyse results.