



# An R Companion to Applied Regression

By John Fox, Harvey Sanford Weisberg

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This is a broad introduction to the R statistical computing environment in the context of applied regression analysis. It is a thoroughly updated edition of John Fox's bestselling text *An R and S-Plus Companion to Applied Regression* (SAGE, 2002). The **Second Edition** is intended as a companion to any course on modern applied regression analysis. The authors provide a step-by-step guide to using the high-quality free statistical software R, an emphasis on integrating statistical computing in R with the practice of data analysis, coverage of generalized linear models, enhanced coverage of R graphics and programming, and substantial web-based support materials.

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### Editorial Review

#### Review

"The text is very clearly written. It contains much wisdom and useful hints for those trying to analyze data with R." (Robert W. Hayden)

#### About the Author

**John Fox** is professor of sociology at McMaster University in Hamilton, Ontario, Canada. Fox earned a PhD in sociology from the University of Michigan in 1972, and prior to arriving at McMaster, he taught at the University of Alberta and at York University in Toronto, where he was cross-appointed in the sociology and mathematics and statistics departments and directed the university's statistical consulting service. He has delivered numerous lectures and workshops on statistical topics in North and South America, Europe, and Asia, at such places as the summer program of the Inter-University Consortium for Political and Social Research, the Oxford University Spring School in Quantitative Methods for Social Research, and the annual meetings of the American Sociological Association. Much of his recent work has been on formulating methods for visualizing complex statistical models and on developing software in the R statistical computing environment. He is the author and co-author of many articles, in such journals as *Sociological Methodology*, *Sociological Methods and Research*, *The Journal of the American Statistical Association*, *The Journal of Statistical Software*, *The Journal of Computational and Graphical Statistics*, *Statistical Science*, *Social Psychology Quarterly*, *The Canadian Review of Sociology and Anthropology*, and *The Canadian Journal of Sociology*. He has written a number of other books, including *Regression Diagnostics* (SAGE, 1991), *Nonparametric Simple Regression* (SAGE, 2000), *Multiple and General-ized Nonparametric Regression* (SAGE, 2000), *A Mathematical Primer for Social Statistics* (SAGE, 2008), and, with Sanford Weisberg, *An R Companion to Applied Regression, Second Edition* (SAGE, 2010). Fox also edits the SAGE Quantitative Applications in the Social Sciences (QASS) monograph series.

Sanford Weisberg is Professor of Statistics at the University of Minnesota, Twin Cities. He is also director of the University's Statistical Consulting Service for Liberal Arts, and has worked with literally hundreds of social scientists and others on the statistical aspects of their research. Professor Weisberg earned a BA in Statistics from the University of California, Berkeley, and a Ph.D. also in statistics from Harvard University, under the direction of Frederick Mosteller. The author of more than sixty articles, his research has primarily been in the areas of regression analysis, including graphical methods, regression diagnostics, and statistical computing. He is a Fellow of the American Statistical Association and former Chair of its Statistical Computing Section. He is the author or co-author of several books, including *Applied Linear Regression* (third edition 2005, Wiley), *Residuals and Influence in Regression* (with R. D. Cook, 1982, Chapman & Hall), *Applied Regression Including Computing and Graphics* (with R. D. Cook, 1999 Wiley). He has several publications in areas that use statistics including archeology, plant sciences, wildlife management, fisheries, and public affairs.

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**Cathy Lantz:**

This An R Companion to Applied Regression book is not really ordinary book, you have after that it the world is in your hands. The benefit you have by reading this book will be information inside this reserve incredible fresh, you will get data which is getting deeper you actually read a lot of information you will get. This kind of An R Companion to Applied Regression without we realize teach the one who looking at it become critical in considering and analyzing. Don't always be worry An R Companion to Applied Regression can bring when you are and not make your tote space or bookshelves' become full because you can have it in your lovely laptop even mobile phone. This An R Companion to Applied Regression having fine arrangement in word as well as layout, so you will not truly feel uninterested in reading.

**Karen Strange:**

A lot of people always spent their free time to vacation as well as go to the outside with them family or their friend. Were you aware? Many a lot of people spent that they free time just watching TV, as well as playing video games all day long. In order to try to find a new activity that's look different you can read a book. It is really fun for you. If you enjoy the book which you read you can spent all day long to reading a book. The book An R Companion to Applied Regression it doesn't matter what good to read. There are a lot of folks that recommended this book. These people were enjoying reading this book. In case you did not have enough space bringing this book you can buy the actual e-book. You can more quickly to read this book from your smart phone. The price is not to fund but this book features high quality.

**Ana Smith:**

Exactly why? Because this An R Companion to Applied Regression is an unordinary book that the inside of the book waiting for you to snap that but latter it will surprise you with the secret this inside. Reading this book beside it was fantastic author who else write the book in such remarkable way makes the content inside easier to understand, entertaining approach but still convey the meaning completely. So , it is good for you for not hesitating having this ever again or you going to regret it. This phenomenal book will give you a lot of advantages than the other book have such as help improving your talent and your critical thinking means. So , still want to hold up having that book? If I had been you I will go to the book store hurriedly.

**George Chadwick:**

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