



Applied Regression Analysis and Generalized Linear Models

By John Fox

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Combining a modern, data-analytic perspective with a focus on applications in the social sciences, the **Third Edition** of **Applied Regression Analysis and Generalized Linear Models** provides in-depth coverage of regression analysis, generalized linear models, and closely related methods, such as bootstrapping and missing data. Updated throughout, this **Third Edition** includes new chapters on mixed-effects models for hierarchical and longitudinal data. Although the text is largely accessible to readers with a modest background in statistics and mathematics, author John Fox also presents more advanced material in optional sections and chapters throughout the book.

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Editorial Review

Review

The strength of this text is the unified presentation of several regression topics that provides the student with a global perspective on regression analysis. The student is well served with this unified approach as it facilitates deeper research on any one topic with more advanced texts. (E. C. Hedberg, Arizona State University)

This text is a one-stop shop for me for my first year stats sequence for students in our program. Those wanting the technical detail will be satisfied; those wanting an excellent explanation of these methods using real-world examples and approachable language will also be satisfied. (Corey S. Sparks, The University of Texas at San Antonio)

I have enjoyed using previous editions of this text and look forward to using this edition. It covers all key topics, and quite a few advanced ones, in one well-written text. (Michael S. Lynch, University of Georgia)

PRAISE FOR THE PREVIOUS EDITIONS

In summary, this is an **excellent** text on regression applications and methods, written with authority, lucidity, and eloquence. The second edition provides substantive and topical updates, and makes the book suitable for courses designed to emphasize both the classical and the modern aspects of regression.

(Journal of the American Statistical Association (review of the second edition))

PRAISE FOR THE PREVIOUS EDITIONS

Even though the book is written with social scientists as the target audience, the depth of material and how it is conveyed give it far broader appeal. Indeed, I recommend it as a **useful** learning text and resource for researchers and students in any field that applies regression or linear models (that is, most everyone), including courses for undergraduate statistics majors.... The author is to be commended for giving us this book, which I trust will find a wide and enduring readership.

(Journal of the American Statistical Association (review of the first edition))

PRAISE FOR THE PREVIOUS EDITIONS

[T]his **wonderfully comprehensive** book focuses on regression analysis and linear models... We enthusiastically recommend this book—having used it in class, we know that it is thorough and well-liked by students.

(Chance (review of the first edition))

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 Generalized 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.

Users Review

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