Applied Regression Modeling

By Iain Pardoe

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"The attention to detail is impressive. The book is very well written and the author is extremely careful with his descriptions . . . the examples are wonderful." —*The American Statistician*

Fully revised to reflect the latest methodologies and emerging applications, *Applied Regression Modeling, Second Edition* continues to highlight the benefits of statistical methods, specifically regression analysis and modeling, for understanding, analyzing, and interpreting multivariate data in business, science, and social science applications.

The author utilizes a bounty of real-life examples, case studies, illustrations, and graphics to introduce readers to the world of regression analysis using various software packages, including R, SPSS, Minitab, SAS, JMP, and S-PLUS. In a clear and careful writing style, the book introduces modeling extensions that illustrate more advanced regression techniques, including logistic regression, Poisson regression, discrete choice models, multilevel models, and Bayesian modeling.

In addition, the *Second Edition* features clarification and expansion of challenging topics, such as:

• Transformations, indicator variables, and interaction
• Testing model assumptions
• Nonconstant variance
• Autocorrelation
• Variable selection methods
• Model building and graphical interpretation

Throughout the book, datasets and examples have been updated and additional problems are included at the end of each chapter, allowing readers to test their comprehension of the presented material. In addition, a related website features the book's datasets, presentation slides, detailed statistical software instructions, and learning resources including additional problems and instructional videos.

With an intuitive approach that is not heavy on mathematical detail, *Applied Regression Modeling, Second Edition* is an excellent book for courses on

statistical regression analysis at the upper-undergraduate and graduate level. The book also serves as a valuable resource for professionals and researchers who utilize statistical methods for decision-making in their everyday work.

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Editorial Review

Review

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From the Back Cover

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About the Author

IAIN PARDOE, PhD, is an independent consultant and also serves on the faculty of mathematics and statistics at Thompson Rivers University, Canada. He has published extensively in his areas of research interest, which include Bayesian analysis, multilevel modeling, graphical methods, and statistics education.

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