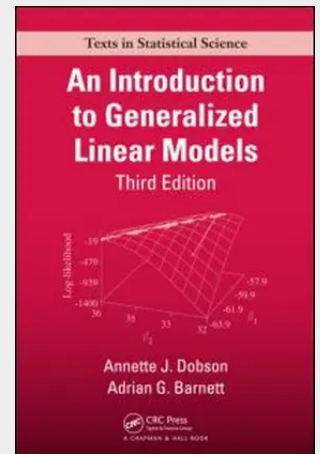


An Introduction to Generalized Linear Models

Continuing to emphasize numerical and graphical methods, An Introduction to Generalized Linear Models, Third Edition provides a cohesive framework for statistical modeling. This new edition of a bestseller has been updated with Stata, R, and WinBUGS code as well as three new chapters on Bayesian analysis. Like its predecessor, this edition presents the theoretical background of generalized linear models (GLMs) before focusing on methods for analyzing particular kinds of data. It covers normal, Poisson, and binomial distributions; linear regression models; classical estimation and model fitting methods; and frequentist methods of statistical inference. After forming this foundation, the authors explore multiple linear regression, analysis of variance (ANOVA), logistic regression, log-linear models, survival analysis, multilevel modeling, Bayesian models, and Markov chain Monte Carlo (MCMC) methods. Using popular statistical software programs, this concise and accessible text illustrates practical approaches to estimation, model fitting, and model comparisons. It includes examples and exercises with complete data sets for nearly all the models covered.



74,50 €

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Artikelnummer: 9781584889502

Medium: Buch

ISBN: 978-1-58488-950-2

Verlag: CHAPMAN & HALL

Erscheinungstermin: 31.07.2008

Sprache(n): Englisch

Auflage: 3. Auflage 2008

Serie: Texts in Statistical Science (

Produktform: Kartoniert

Gewicht: 449 g

Seiten: 320

Format (B x H): 155 x 233 mm

