Negative Binomial Regression

Joseph M. Hilbe
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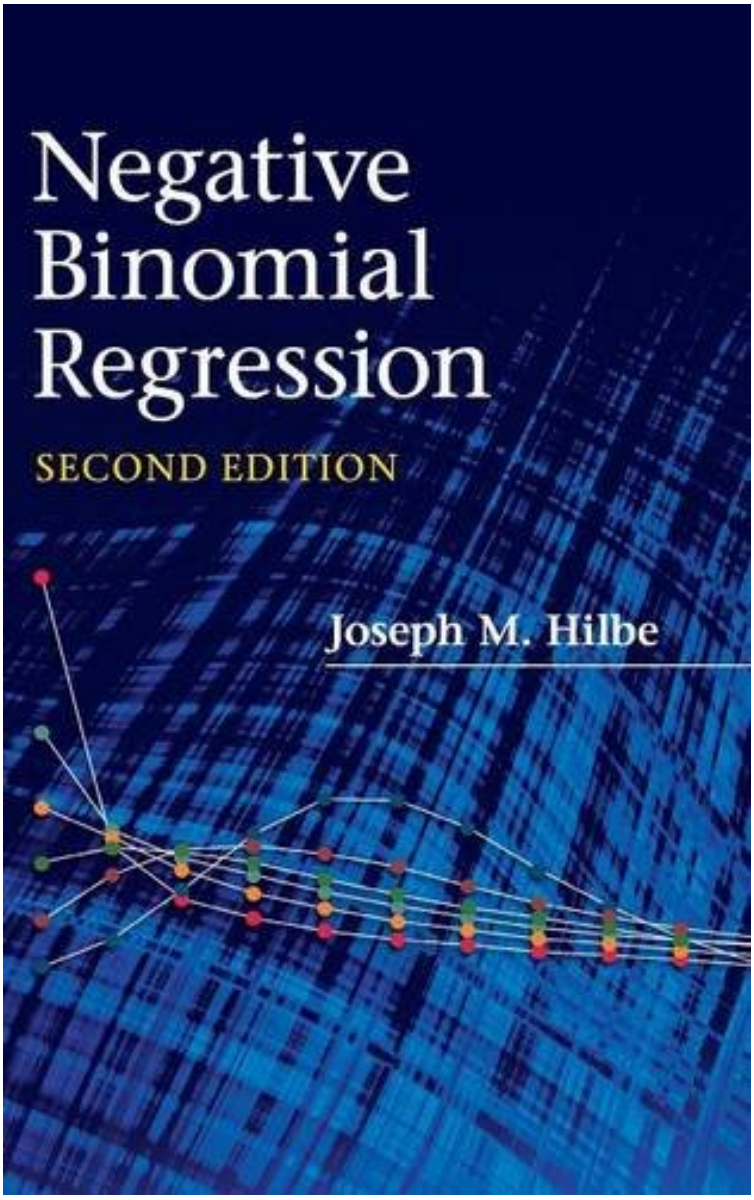

#393006 in Books Joseph M Hilbe 2011-03-08Original language:EnglishPDF # 1 8.98 x 1.42 x 5.98l, 2.10 #File Name: 0521198151576 pagesNegative Binomial Regression | File size: 59.Mb

Joseph M. Hilbe : Negative Binomial Regression before purchasing it in order to gage whether or not it would be worth my time, and all praised Negative Binomial Regression:

3 of 3 people found the following review helpful. If you work with count data, you'll want this bookBy C. AndersenIf you work professionally with count or count-like data, as I do, this is a book you'll want to add to you library and treat

as a major reference. You may have had courses in regression or categorical analysis which introduced you to Poisson or even negative binomial models for count data, but this is the book which will fill-in the gaps, tell you what assumptions really need checked, and how to validate and interpret the results. This book starts with Poisson models, expands to negative binomial models, and generalizes to zero-truncated, zero-inflated, hurdle models, and beyond. Hilbe manages to cover all of this with very readable -- even conversational -- prose. If you need deep theory, it is here (though you can skip it), and if you want to be able generate synthetic data to explore and validate your models, that's covered too. This book has joined perhaps a half-dozen books in my library that I consider among the more valuable references. Based upon my experience with this book, I subsequently bought Hilbe's book on Logistic Regression Models -- which seems likewise well-done.EDIT: is associating the review with the Kindle edition; actually it applies to the print edition.3 of 3 people found the following review helpful. Don't Get Kindle versionBy FutureDocI own the hardcopy of this book and it has been an invaluable reference. However the kindle version is horrible. The mathematical equations and expressions are alternately very small or very huge! And the tabular output is all out of whack, making many of the contingency tables impossible to read.1 of 1 people found the following review helpful. Great introduction to theory AND practical application!By Chris MacintoshI love a book that gives me some good theoretical foundation, yet provides some solid examples in language that I can actually follow. I have a foundation in regression, but poisson regression is not something that has been covered in my statistical courses up to this point. This book was a great introduction.

This second edition of Hilbe's Negative Binomial Regression is a substantial enhancement to the popular first edition. The only text devoted entirely to the negative binomial model and its many variations, nearly every model discussed in the literature is addressed. The theoretical and distributional background of each model is discussed, together with examples of their construction, application, interpretation and evaluation. Complete Stata and R codes are provided throughout the text, with additional code (plus SAS), derivations and data provided on the book's website. Written for the practising researcher, the text begins with an examination of risk and rate ratios, and of the estimating algorithms used to model count data. The book then gives an in-depth analysis of Poisson regression and an evaluation of the meaning and nature of overdispersion, followed by a comprehensive analysis of the negative binomial distribution and of its parameterizations into various models for evaluating count data.

"As with all of Joe Hilbe's books this text is thorough and scholarly with an extensive list of references. The text is well-written and for the most part easy to understand." Michael R. Chernick, Significance"For any applied statistician who needs negative binomial models in their research and applications, it is usually not easy to find a book to provide both theoretical fundamentals and practical expert insights. This books meets such a need perfectly. Overall, this is a very well-written book. Its statistical rigor and expert insights in negative binomial modeling should be very appealing to readers of Technometrics." Xianggui Qu, Oakland University for TechnometricsAbout the AuthorJoseph M. Hilbe is a Solar System Ambassador with NASA's Jet Propulsion Laboratory at the California Institute of Technology, an adjunct professor of statistics at Arizona State University, and an emeritus professor at the University of Hawaii. Professor Hilbe is an elected fellow of the American Statistical Association and an elected member of the International Statistical Institute (ISI), for which he is Chair of the ISI International Astrostatistics Network. He is the author of Logistic Regression Models (Chapman and Hall/CRC, 2009), a leading text on the subject, and co-author of R for Stata Users (Springer, 2010, with R. Muenchen), Generalized Estimating Equations (Chapman and Hall/CRC, 2002, with J. Hardin) and Generalized Linear Models and Extensions (Stata Press, 2001 and 2007, also with J. Hardin).