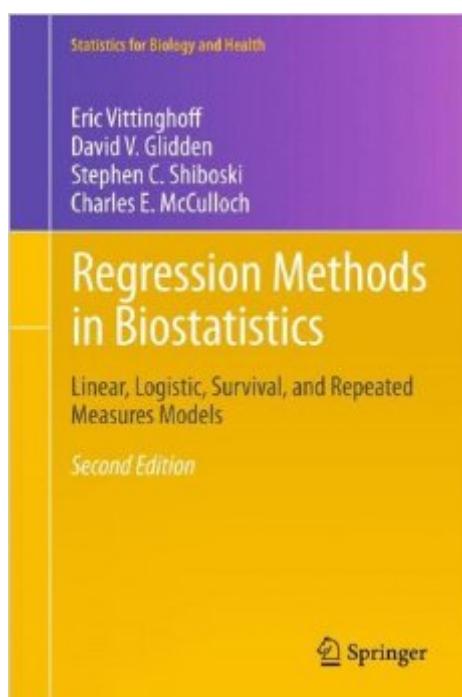


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# Regression Methods In Biostatistics: Linear, Logistic, Survival, And Repeated Measures Models (Statistics For Biology And Health)



## Synopsis

This new book provides a unified, in-depth, readable introduction to the multipredictor regression methods most widely used in biostatistics: linear models for continuous outcomes, logistic models for binary outcomes, the Cox model for right-censored survival times, repeated-measures models for longitudinal and hierarchical outcomes, and generalized linear models for counts and other outcomes. Treating these topics together takes advantage of all they have in common. The authors point out the many-shared elements in the methods they present for selecting, estimating, checking, and interpreting each of these models. They also show that these regression methods deal with confounding, mediation, and interaction of causal effects in essentially the same way. The examples, analyzed using Stata, are drawn from the biomedical context but generalize to other areas of application. While a first course in statistics is assumed, a chapter reviewing basic statistical methods is included. Some advanced topics are covered but the presentation remains intuitive. A brief introduction to regression analysis of complex surveys and notes for further reading are provided.

## Book Information

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## Customer Reviews

You can actually read this book - which is surprising given the subject. I'm a grad student taking two Biostats courses for a master's degree. This book is great and conceptual.

Overall a very excellent, broad yet detailed overview of regression and statistical methods for parsing meaning and substance from different epidemiologic and/or other health-related investigations. One caveat: the writing is extremely verbose and geared toward analytic, mathematical parsing of meaning in context of data graphical overlays. Can be understood by any functional graduate student with robust quantitative skills, but is still a bit awkward/stilted in how the information is conveyed with numbering of tables, graphs, etc., in reference to textual explanations. Other than that, kudos. Very helpful.

Vittinghoff is very verbose in explanations of the methods within, but this is very useful to newcomers in the field. The examples are robust and coded in a number of common statistical programming environments.

The Kindle version struggles with the formatting of math equations and isn't much cheaper (albeit more convenient) than the hard copy. I would seriously consider ordering the actual book if I hadn't already purchased the Kindle version.

Useful book, but hard to read. The writing often requires you to re-read passages before you can understand what the authors mean. This book is a bible, and necessary, but it would benefit from some editing.

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