

"Applied Survival Analysis: Regression Modeling of Time-to-Event Data, Second Edition"

David W. Hosmer, Stanley Lemeshow, and Susanne May, 2008, 392 pages, John Wiley & Sons, \$110.00

Review by Norman M. Goldfarb

"Applied Survival Analysis: Regression Modeling of Time-to-Event Data" is most useful for two audiences: the student with knowledge of linear and logistic regression who wants a comprehensive and practical understanding of the topic, and the practicing biostatistician who wants to select the most appropriate method and use it correctly.

Survival analysis modeling is used to evaluate the effect of medical treatments on life expectancy, length of cancer remission, and other time-to-event outcomes. Such analyses typically involve

the presence of censored (incomplete) time-to-event data. Incomplete data are easily accommodated in modern statistical software. However, a well-designed study can minimize their impact. Thus, biostatisticians should be involved from the start.

This book has been selected for
[The First Clinical Research Bookshelf](#)
Essential reading for clinical research professionals

The book consists of nine chapters:

- Introduction to Regression Modeling of Survival Data
- Descriptive Methods for Survival Data
- Regression Models for Survival Data
- Interpretation of a Fitted Proportional Hazards Regression Model
- Model Development
- Assessment of Model Adequacy
- Extensions of the Proportional Hazards Model
- Parametric Regression Models
- Other Models and Topics

The book is available in bookstores.

Reviewer

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