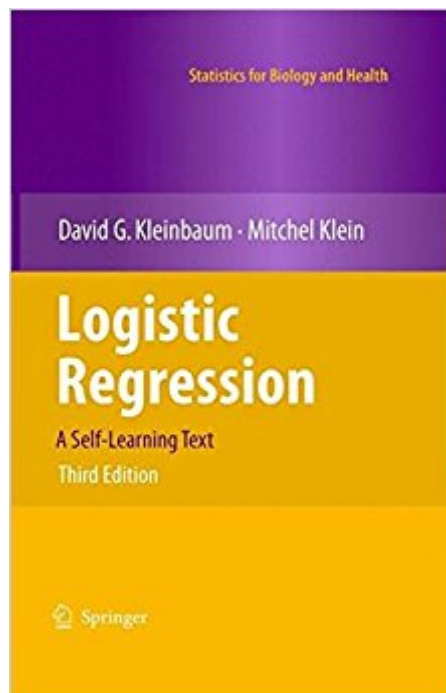




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# Logistic Regression: A Self-Learning Text (Statistics For Biology And Health)



## Synopsis

This is the third edition of this text on logistic regression methods, originally published in 1994, with its second edition published in 2002. As in the first two editions, each chapter contains a presentation of its topic in a “lecture-book” format together with objectives, an outline, key formulae, practice exercises, and a test. The “lecture book” has a sequence of illustrations, formulae, or summary statements in the left column of each page and a script (i. e. , text) in the right column. This format allows you to read the script in conjunction with the illustrations and formulae that highlight the main points, formulae, or examples being presented. This third edition has expanded the second edition by adding three new chapters and a modified computer appendix. We have also expanded our overview of modeling strategy guidelines in Chap. 6 to consider causal diagrams. The three new chapters are as follows: Chapter 8: Additional Modeling Strategy Issues Chapter 9: Assessing Goodness of Fit for Logistic Regression Chapter 10: Assessing Discriminatory Performance of a Binary Logistic Model: ROC Curves In adding these three chapters, we have moved Chaps. 8 through 13 from the second edition to follow the new chapters, so that these previous chapters have been renumbered as Chaps. 11–16 in this third edition.

## Book Information

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## Customer Reviews

From the reviews of the third edition: “The third edition of this book continues the tradition of the authors of a two-column book that really does act as a self-learning text. The left-hand column is

like a collection of PowerPoint slides, including generic-style computer output and diagrams to visualize the relationship between concepts. Each chapter contains about 10 exercises, some routine calculation and some asking for explanation of particular points. Answers are provided immediately. The reference list includes about 40 items and has been updated to include publications up to 2008. (Alice Richardson, International Statistical Review, Vol. 79 (2), 2011)

This very popular textbook is now in its third edition. Whether students or working professionals, readers appreciate its unique "lecture book" format. They often say the book reads like they are listening to an outstanding lecturer. This edition includes three new chapters, an updated computer appendix, and an expanded section about modeling guidelines that consider causal diagrams. Like previous editions, this textbook provides a highly readable description of fundamental and more advanced concepts and methods of logistic regression. It is suitable for researchers and statisticians in medical and other life sciences as well as academicians teaching second-level regression methods courses. The new chapters are: Additional Modeling Strategy Issues, including strategy with several exposures, screening variables, collinearity, influential observations and multiple-testing; Assessing Goodness to Fit for Logistic Regression; Assessing Discriminatory Performance of a Binary Logistic Model: ROC Curves. The Computer Appendix provides step-by-step instructions for using STATA (version 10.0), SAS (version 9.2), and SPSS (version 16) for procedures described in the main text. David Kleinbaum is Professor of Epidemiology at Emory University Rollins School of Public Health in Atlanta, Georgia. Dr. Kleinbaum is internationally known for his innovative textbooks and teaching on epidemiological methods, multiple linear regression, logistic regression, and survival analysis. He has taught more than 200 courses worldwide. The recipient of numerous teaching awards, he received the first Association of Schools of Public Health Pfizer Award for Distinguished Career Teaching in 2005. Mitchel Klein is Research Assistant Professor with a joint appointment in the Environmental and Occupational Health Department and the Epidemiology Department at Emory University Rollins School of Public Health. He has successfully designed and taught epidemiologic methods physicians at Emory's Master of Science in Clinical Research Program. Dr. Klein is co-author with Dr. Kleinbaum of the second edition of Survival Analysis-A Self-Learning Text.

Written in a very clear way showing all the logical steps and many examples, including code at the back for common stats packages. It starts each topic in a very way (too basic for me), but builds you

up to a high technical level. The book provides many practise examples with answers and so is thus good for self-learning.

It is a long wordy introduction to logistic regression. The good point about this book is that it has a lot of exercises (most of them simple) that strength your understanding. It also has answers. However, the material can be condensed into 1/4 of its 700 pages easily. Other books like Agresti's books on categorical analysis are far more condensed and more difficult to digest. I think this is a good book for beginners to learn logistic regression or regression in general.

New book

good

This book contains a detailed text along with a "presentation" next to the text, much like a Powerpoint presentation, which allows you to skim the material efficiently. I highly recommend this book for logistic modeling classes.

Very good book, easy to learn from! I would highly suggest this reading for anyone taking a logistic regression class.

If you want to learn about logistic regression (LR), and are an applied statistics user (especially in medical, health, or policy areas), this is the book for you. It is thorough in coverage and focuses deeply on the fundamentals: understanding applications of LR, interpreting the results, developing intuition for the procedures, and avoiding common errors. You might wonder: what is LR good for? The answer: when you want to assess a dichotomous outcome on the basis of any kind of predictors. For example, to predict disease occurrence (0/1) on the basis of gender, behaviors, income, etc. Or to predict a behavior (0/1) on the basis of psychological scores, demographics, etc. The book follows a "lecture plus commentary" style, where a primary didactic text is heavily annotated with sidebar comments, summaries, reviews of the material, and quizzes with answers. Overall this is a good thing and makes the book extremely well-suited for self study. However, it also makes it extremely long and moderately tedious to read at times. Unlike many stats books, however, it actually is readable. The mathematics are held to a high school level (i.e., algebra), so it is suitable for any applied researcher or research consumer, although therefore probably not

suitable for a professional statistician. Still, it is mathematically rigorous and requires the reader to work through a large number of (simple) formulas, contingency tables, and the like. One odd omission is R: the book covers procedures for SAS, SPSS, and Stata, but not R. The authors' website appears not to be updated since the 2nd edition, and also does not cover R. That is a puzzling lacuna given the growing popularity of R in general and especially in bioinformatics. However, it is not a crucial flaw, since LR in R is not difficult and there are many examples online. In summary: if you're an applied researcher in medicine, public health, psychology, etc., and want to learn about LR, get it.

Very annoying format / layout of the text with regards to supporting figures, equations, illustrations, etc. - everything placed in the margins in a difficult to read font. Most annoying is the author's habit of spelling out equations i.e.  $1/(1+2)$  would be described as "one over the quantity of one plus two" - can't get past this and have given up on the text.

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