

Logistic Regression Using SAS: Theory and Application,
2nd Edition.

Paul D. ALLISON. Cary, NC: SAS Institute, 2012, viii + 339 pp., \$53.95 (P),
ISBN: 978-1-59994-641-2.

This is an outstanding book on the logistic regression model and its various extensions. It briefly explains the theory behind logistic regression and focuses on the practical details involved in its implementation using SAS, with detailed discussion on several real-world examples. It covers the basic logistic regression models for binary, nominal, and ordinal outcomes, discrete-choice analysis, Poisson regression, and log-linear models for contingency tables. In addition, it discusses some advanced topics on logistic regression for longitudinal and other clustered data, including conditional logistic regression, generalized linear mixed models, and marginal models using generalized estimating equations.

This second edition describes many new features of PROC LOGISTIC, including conditional logistic regression, exact logistic regression, generalized logit models, receiver operating characteristic (ROC) curves, analyzing interactions, and graphing nonlinear effects. In addition, it provides some new coverage of PROC SURVEYLOGISTIC, GENMOD, GLIMMIX, QLIM, and MDC for various extensions of logistic regression. In summary, this is a highly recommended book for graduate students and applied statisticians who want to learn or apply logistic regression in practice.

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