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**Categorical data analysis. 3rd ed.** (English) [Zbl 1281.62022](#)

**Wiley Series in Probability and Statistics.** Hoboken, NJ: John Wiley & Sons (ISBN 978-0-470-46363-5/hbk). xi, 714 p. (2013).

Publisher's description: The use of statistical methods for analyzing categorical data has increased dramatically, particularly in the biomedical, social sciences, and financial industries. Responding to new developments, this book offers a comprehensive treatment of the most important methods for categorical data analysis.

This book summarizes the latest methods for univariate and correlated multivariate categorical responses. Readers will find a unified generalized linear models approach that connects logistic regression and Poisson and negative binomial loglinear models for discrete data with normal regression for continuous data. This edition also features:

- An emphasis on logistic and probit regression methods for binary, ordinal, and nominal responses for independent observations and for clustered data with marginal models and random effects models
- Two new chapters on alternative methods for binary response data, including smoothing and regularization methods, classification methods such as linear discriminant analysis and classification trees, and cluster analysis
- New sections introducing the Bayesian approach for methods in that chapter
- more than 100 analyses of data sets and over 600 exercises
- notes at the end of each chapter that provide references to recent research and topics not covered in the text, linked to a bibliography of more than 1,200 sources
- a supplementary website showing how to use R and SAS; for all examples in the text, with information also about SPSS and Stata and with exercise solutions.

See the reviews of the first and second editions in [[Zbl 0716.62001](#); [Zbl 1018.62002](#)].

**MSC:**

- [62-02](#) Research exposition (monographs, survey articles) pertaining to statistics
- [62J12](#) Generalized linear models (logistic models)
- [62Pxx](#) Applications of statistics

Cited in **2** Reviews  
Cited in **84** Documents

**Software:**

SAS; R; SPSS; Stata