

Discrete Data Analysis with R

Visualization and Modeling Techniques for Categorical and Count Data

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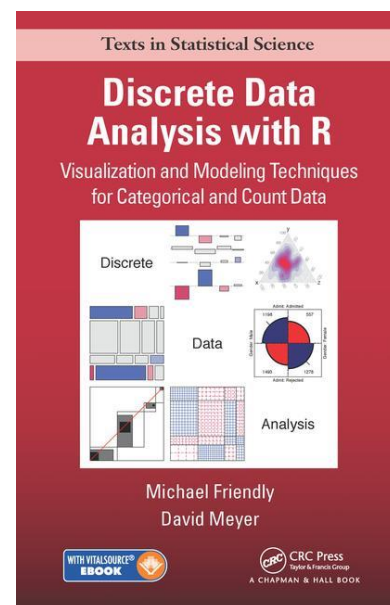
The special nature of discrete variables and frequency data vis-a-vis statistical graphics is now more widely accepted, and many of these methods (e.g., mosaic displays, fourfold plots, diagnostic plots for generalized linear models) have become, if not main stream, then at least more widely used in research and teaching. This book provides an accessible introduction to the major methods of categorical data analysis for data exploration, statistical testing and statistical models. As opposed to more theoretical books, the goal here is to help the reader to translate theory into practical application, by providing skills and software tools for carrying out these methods.

Key Features

- Provides an accessible introduction to the major methods of categorical data analysis for data exploration, statistical testing and statistical models
- The emphasis throughout is on computing, visualizing, understanding and communicating the results of these analyses
- As opposed to more theoretical books, it help the reader to translate theory into practical application, by providing skills and software tools for carrying out these methods
- Supported directly by R packages **vcd** and **vcdExtra**, along with numerous other R packages

Selected Contents

I Getting Started. Introduction. Working with Categorical Data. Fitting and Graphing Discrete Distributions. II Exploratory and Hypothesis-Testing Methods. Two-Way Contingency Tables. Mosaic Displays for n-Way Tables. Correspondence Analysis. III Model-Building Methods. Logistic Regression Models. Models for Polytomous Responses. Loglinear and Logit Models for Contingency Tables. Extending Loglinear Models. Generalized Linear Models for Count Data.



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