

AN INTRODUCTION TO CATEGORICAL DATA ANALYSIS, 2nd ed.

SOLUTIONS TO SELECTED PROBLEMS for STA 4504/5503

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Chapter 1

1. Response variables are (a) Attitude toward gun control, (b) Heart disease, (c) Vote for President, (d) Quality of life.

2.a. nominal, b. ordinal, c. ordinal, d. nominal, e. nominal, f. ordinal

3.a. Binomial, $n = 100$, $\pi = 0.25$.

b. The mean is $n\pi = 25$ and the standard deviation is $\sqrt{n\pi(1-\pi)} = 4.33$. 50 correct responses would be surprising, since 50 is $z = (50 - 25)/4.33 = 5.8$ standard deviations above the mean of a distribution that is approximately normal.

4.a. Y is binomial for $n = 2$ and $\pi = 0.50$. Thus, $Y = 0$ with probability 0.25, $Y = 1$ with probability 0.50, and $Y = 2$ with probability 0.25. The mean is $2(0.50) = 1.0$ and the standard deviation is $\sqrt{2(0.50)(0.50)} = 0.71$.

b.(i) $P(Y = 0) = 0.16$, $P(Y = 1) = 0.48$, $P(Y = 2) = 0.36$;

(ii) $P(Y = 0) = 0.36$, $P(Y = 1) = 0.48$, $P(Y = 2) = 0.16$.

c. $f(\pi) = 2\pi(1 - \pi)$.

d. From the plot or using calculus by taking the derivative and setting it equal to 0, the function $f(\pi) = 2\pi(1 - \pi)$ takes its maximum value at $\pi = 0.50$.

8.a. 0.294. b. $z = -14.9$, P-value < 0.0001 . Conclude that minority of population would say 'yes.'

c. $p \pm 1.96\sqrt{p(1-p)/n}$ is $0.294 \pm 2.58(0.0133)$, or (0.26, 0.33).

12.a. $SE = 0$, and the z statistic equals $-\infty$.

b. CI is (0, 0); no, in the population we expect some vegetarians, even if the proportion is small.

c. $z = (0 - 0.50)/\sqrt{0.50(0.50)/25} = -5.0$, P-value < 0.0001 .

d. Note $z = (0 - 0.133)/\sqrt{0.133(0.133)/25} = -1.96$, so 0.133 is the null value that has a P-value of 0.05.

15.a. $\sigma(p)$ equals the binomial standard deviation $\sqrt{n\pi(1-\pi)}$ divided by the sample size n .

b. $\sigma(p)$ takes its maximum value at $\pi = 0.50$ and its minimum at $\pi = 0$ and 1. If $\pi = 1$, for instance, every observation must be a success, and the sample proportion p equals π with probability 1.

Chapter 2

An Introduction To Categorical Data Analysis Solution Manual

Lingjun Ying



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Categorical Data Analysis Alan Agresti, 2013-04-08 Praise for the Second Edition A must have book for anyone expecting to do research and or applications in categorical data analysis *Statistics in Medicine* It is a total delight reading this book *Pharmaceutical Research* If you do any analysis of categorical data this is an essential desktop reference *Technometrics* 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 *Categorical Data Analysis* Third Edition 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

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Models: From Data to Decisions, 4e Student Solutions Manual Stuart A. Klugman, Harry H. Panjer, Gordon E.

Willmot, 2014-08-21 Student Solutions Manual to Accompany Loss Models From Data to Decisions Fourth Edition This volume is organised around the principle that much of actuarial science consists of the construction and analysis of mathematical models which describe the process by which funds flow into and out of an insurance system *Robust Correlation* Georgy L.

Shevlyakov, Hannu Oja, 2016-08-02 This book presents material on both the analysis of the classical concepts of correlation and on the development of their robust versions as well as discussing the related concepts of correlation matrices partial correlation canonical correlation rank correlations with the corresponding robust and non robust estimation procedures Every chapter contains a set of examples with simulated and real life data Key features Makes modern and robust correlation methods readily available and understandable to practitioners specialists and consultants working in various fields Focuses on implementation of methodology and application of robust correlation with R Introduces the main approaches in robust statistics such as Huber's minimax approach and Hampel's approach based on influence functions Explores various robust estimates of the correlation coefficient including the minimax variance and bias estimates as well as the most B and V robust estimates Contains applications of robust correlation methods to exploratory data analysis multivariate statistics statistics of time series and to real life data Includes an accompanying website featuring computer code and datasets Features exercises and examples throughout the text using both small and large data sets Theoretical and applied statisticians specialists in multivariate statistics robust statistics robust time series analysis data analysis and signal processing will benefit from this book Practitioners who use correlation based methods in their work as well as postgraduate students in statistics will also find this book useful *Batch Effects and Noise in Microarray Experiments* Andreas Scherer, 2009-12-14 Batch Effects and

Noise in Microarray Experiments Sources and Solutions looks at the issue of technical noise and batch effects in microarray studies and illustrates how to alleviate such factors whilst interpreting the relevant biological information Each chapter focuses on sources of noise and batch effects before starting an experiment with examples of statistical methods for detecting measuring and managing batch effects within and across datasets provided online Throughout the book the importance of standardization and the value of standard operating procedures in the development of genomics biomarkers is emphasized Key Features A thorough introduction to Batch Effects and Noise in Microarray Experiments A unique compilation of review and research articles on handling of batch effects and technical and biological noise in microarray data An extensive overview of current standardization initiatives All datasets and methods used in the chapters as well as colour

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Correspondence Analysis Eric J. Beh, Rosaria Lombardo, 2014-09-04 A comprehensive overview of the internationalisation of correspondence analysis Correspondence Analysis Theory Practice and New Strategies examines the key issues of correspondence analysis and discusses the new advances that have been made over the last 20 years The main focus of this book is to provide a comprehensive discussion of some of the key technical and practical aspects of correspondence analysis and to demonstrate how they may be put to use Particular attention is given to the history and mathematical links of the developments made These links include not just those major contributions made by researchers in Europe which is where much of the attention surrounding correspondence analysis has focused but also the important contributions made by researchers in other parts of the world Key features include A comprehensive international perspective on the key developments of correspondence analysis Discussion of correspondence analysis for nominal and ordinal categorical data Discussion of correspondence analysis of contingency tables with varying association structures symmetric and non symmetric relationship between two or more categorical variables Extensive treatment of many of the members of the correspondence analysis family for two way three way and multiple contingency tables Correspondence Analysis offers a comprehensive and detailed overview of this topic which will be of value to academics postgraduate students and researchers wanting a better understanding of correspondence analysis Readers interested in the historical development internationalisation and diverse applicability of correspondence analysis will also find much to enjoy in this book

Design and Analysis of Experiments, Volume 3 Klaus Hinkelmann, 2011-12-28 Provides timely applications modifications and extensions of experimental designs for a variety of disciplines Design and Analysis of Experiments Volume 3 Special Designs and Applications continues building upon the philosophical foundations of experimental design by providing important modern applications of experimental design to the many fields that utilize them The book also presents optimal and efficient designs for practice and covers key topics in current statistical research Featuring contributions from leading researchers and academics the book demonstrates how the presented concepts are used across various fields from genetics and medicinal and pharmaceutical research to manufacturing engineering and national security Each chapter includes an introduction followed by the historical background as well as in depth procedures that aid in the construction and analysis of the discussed designs Topical coverage includes Genetic cross experiments microarray experiments and variety trials Clinical trials group sequential designs and adaptive designs Fractional factorial and search choice and optimal designs for generalized linear models Computer experiments with applications to homeland security Robust parameter designs and split plot type response surface designs Analysis of directional data experiments Throughout the book illustrative and numerical examples utilize SAS JMP and R software programs to demonstrate the discussed techniques Related data sets and

software applications are available on the book's related FTP site Design and Analysis of Experiments Volume 3 is an ideal textbook for graduate courses in experimental design and also serves as a practical hands on reference for statisticians and researchers across a wide array of subject areas including biological sciences engineering medicine and business

A Primer on Experiments with Mixtures John A. Cornell, 2011-09-26 The concise yet authoritative presentation of key techniques for basic mixtures experiments Inspired by the author's bestselling advanced book on the topic A Primer on Experiments with Mixtures provides an introductory presentation of the key principles behind experimenting with mixtures Outlining useful techniques through an applied approach with examples from real research situations the book supplies a comprehensive discussion of how to design and set up basic mixture experiments then analyze the data and draw inferences from results Drawing from his extensive experience teaching the topic at various levels the author presents the mixture experiments in an easy to follow manner that is void of unnecessary formulas and theory Succinct presentations explore key methods and techniques for carrying out basic mixture experiments including Designs and models for exploring the entire simplex factor space with coverage of simplex lattice and simplex centroid designs canonical polynomials the plotting of individual residuals and axial designs Multiple constraints on the component proportions in the form of lower and or upper bounds introducing L Pseudocomponents multicomponent constraints and multiple lattice designs for major and minor component classifications Techniques for analyzing mixture data such as model reduction and screening components as well as additional topics such as measuring the leverage of certain design points Models containing ratios of the components Cox's mixture polynomials and the fitting of a slack variable model A review of least squares and the analysis of variance for fitting data Each chapter concludes with a summary and appendices with details on the technical aspects of the material Throughout the book exercise sets with selected answers allow readers to test their comprehension of the material and References and Recommended Reading sections outline further resources for study of the presented topics A Primer on Experiments with Mixtures is an excellent book for one semester courses on mixture designs and can also serve as a supplement for design of experiments courses at the upper undergraduate and graduate levels It is also a suitable reference for practitioners and researchers who have an interest in experiments with mixtures and would like to learn more about the related mixture designs and models

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