

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

Georgy L. Shevlyakov, Hannu Oja



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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

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Table of Contents An Introduction To Categorical Data Analysis Solution Manual

1. Understanding the eBook An Introduction To Categorical Data Analysis Solution Manual
 - The Rise of Digital Reading An Introduction To Categorical Data Analysis Solution Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying An Introduction To Categorical Data Analysis Solution Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an An Introduction To Categorical Data Analysis Solution Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from An Introduction To Categorical Data Analysis Solution Manual
 - Personalized Recommendations
 - An Introduction To Categorical Data Analysis Solution Manual User Reviews and Ratings
 - An Introduction To Categorical Data Analysis Solution Manual and Bestseller Lists
5. Accessing An Introduction To Categorical Data Analysis Solution Manual Free and Paid eBooks

- An Introduction To Categorical Data Analysis Solution Manual Public Domain eBooks
- An Introduction To Categorical Data Analysis Solution Manual eBook Subscription Services
- An Introduction To Categorical Data Analysis Solution Manual Budget-Friendly Options
- 6. Navigating An Introduction To Categorical Data Analysis Solution Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - An Introduction To Categorical Data Analysis Solution Manual Compatibility with Devices
 - An Introduction To Categorical Data Analysis Solution Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of An Introduction To Categorical Data Analysis Solution Manual
 - Highlighting and Note-Taking An Introduction To Categorical Data Analysis Solution Manual
 - Interactive Elements An Introduction To Categorical Data Analysis Solution Manual
- 8. Staying Engaged with An Introduction To Categorical Data Analysis Solution Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers An Introduction To Categorical Data Analysis Solution Manual
- 9. Balancing eBooks and Physical Books An Introduction To Categorical Data Analysis Solution Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection An Introduction To Categorical Data Analysis Solution Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine An Introduction To Categorical Data Analysis Solution Manual
 - Setting Reading Goals An Introduction To Categorical Data Analysis Solution Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of An Introduction To Categorical Data Analysis Solution Manual
 - Fact-Checking eBook Content of An Introduction To Categorical Data Analysis Solution Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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