

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

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Hussin A.Rothana



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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

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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

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Using the Weibull Distribution John I. McCool, 2012-08-06 Understand and utilize the latest developments in Weibull inferential methods While the Weibull distribution is widely used in science and engineering most engineers do not have the necessary statistical training to implement the methodology effectively Using the Weibull Distribution Reliability Modeling and Inference fills a gap in the current literature on the topic introducing a self contained presentation of the probabilistic basis for the methodology while providing powerful techniques for extracting information from data The author explains the use of the Weibull distribution and its statistical and probabilistic basis providing a wealth of material that is not available in the current literature The book begins by outlining the fundamental probability and statistical concepts that serve as a foundation for subsequent topics of coverage including Optimum burn in age and block replacement warranties and renewal theory Exact inference in Weibull regression Goodness of fit testing and distinguishing the Weibull from the lognormal Inference for the Three Parameter Weibull Throughout the book a wealth of real world examples showcases the discussed topics and each chapter concludes with a set of exercises allowing readers to test their understanding of the presented material In addition a related website features the author's own software for implementing the discussed analyses along with a set of modules written in Mathcad and additional graphical interface software for performing simulations With its numerous hands on examples exercises and software applications Using the Weibull Distribution is an excellent book for courses on quality control and reliability engineering at the upper undergraduate and graduate levels The book also serves as a valuable reference for engineers scientists and business analysts who gather and interpret data that follows the Weibull distribution

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