

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

Peipei Pang



An Introduction To Categorical Data Analysis Solution Manual:

An Introduction to Categorical Data Analysis Alan Agresti, 2018-10-11 A valuable new edition of a standard reference. The use of statistical methods for categorical data has increased dramatically particularly for applications in the biomedical and social sciences. *An Introduction to Categorical Data Analysis* Third Edition summarizes these methods and shows readers how to use them using software. Readers will find a unified generalized linear models approach that connects logistic regression and loglinear models for discrete data with normal regression for continuous data. Adding to the value in the new edition is Illustrations of the use of R software to perform all the analyses in the book. A new chapter on alternative methods for categorical data including smoothing and regularization methods such as the lasso, classification methods such as linear discriminant analysis and classification trees and cluster analysis. New sections in many chapters introducing the Bayesian approach for the methods of that chapter. More than 70 analyses of data sets to illustrate application of the methods and about 200 exercises many containing other data sets. An appendix showing how to use SAS, Stata and SPSS and an appendix with short solutions to most odd numbered exercises. Written in an applied nontechnical style this book illustrates the methods using a wide variety of real data including medical clinical trials, environmental questions, drug use by teenagers, horseshoe crab mating, basketball shooting, correlates of happiness and much more. *An Introduction to Categorical Data Analysis* Third Edition is an invaluable tool for statisticians and biostatisticians as well as methodologists in the social and behavioral sciences, medicine and public health, marketing, education and the biological and agricultural sciences.

Categorical Data Analysis Alan Agresti, 2012-12-03 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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Loss Models Stuart A. Klugman, Harry H. Panjer, Gordon E. Willmot, 2013-08-05 An essential resource for constructing and analyzing advanced actuarial models Loss Models Further Topics presents extended coverage of modeling through the use of tools related to risk theory loss distributions and survival models The book uses these methods to construct and evaluate actuarial models in the fields of insurance and business Providing an advanced study of actuarial methods the book features extended discussions of risk modeling and risk measures including Tail Value at Risk Loss Models Further Topics contains additional material to accompany the Fourth Edition of Loss Models From Data to Decisions such as Extreme value distributions Coxian and related distributions Mixed Erlang distributions Computational and analytical methods for aggregate claim models Counting processes Compound distributions with time dependent claim amounts Copula models Continuous time ruin models Interpolation and smoothing The book is an essential reference for practicing actuaries and actuarial researchers who want to go beyond the material required for actuarial qualification Loss Models Further Topics is also an excellent resource for graduate students in the actuarial field

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analysis using the R software environment It covers recent techniques of model building and assessment for binary multicategory and count response variables and discusses fundamentals such as odds ratio and probability estimation The authors give detailed advice and guidelines on which procedures to use and why to use them The second edition is a substantial update of the first based on the authors experiences of teaching from the book for nearly a decade The book is organized as before but with new content throughout and there are two new substantive topics in the advanced topics chapter group testing and splines The computing has been completely updated with the emmeans package now integrated into the book The examples have also been updated notably to include new examples based on COVID 19 and there are more than 90 new exercises in the book The solutions manual and teaching videos have also been updated Features Requires no prior experience with R and offers an introduction to the essential features and functions of R Includes numerous examples from medicine psychology sports ecology and many other areas Integrates extensive R code and output Graphically demonstrates many of the features and properties of various analysis methods Offers a substantial number of exercises in all chapters enabling use as a course text or for self study Supplemented by a website with data sets code and teaching videos

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Mathematical Statistics with

Applications in R Kandethody M. Ramachandran, Chris P. Tsokos, 2020-05-14 Mathematical Statistics with Applications in R Third Edition offers a modern calculus based theoretical introduction to mathematical statistics and applications The book covers many modern statistical computational and simulation concepts that are not covered in other texts such as the Jackknife bootstrap methods the EM algorithms and Markov chain Monte Carlo MCMC methods such as the Metropolis algorithm Metropolis Hastings algorithm and the Gibbs sampler By combining discussion on the theory of statistics with a wealth of real world applications the book helps students to approach statistical problem solving in a logical manner Step by step procedure to solve real problems make the topics very accessible Presents step by step procedures to solve real problems making each topic more accessible Provides updated application exercises in each chapter blending theory and modern methods with the use of R Includes new chapters on Categorical Data Analysis and Extreme Value Theory with Applications Wide array coverage of ANOVA Nonparametric Bayesian and empirical methods **Statistics for Engineering and the Sciences, Student's Solutions Manual** N. Shafer-Boudreau, 1991 **Computer Books and Serials in Print** , 1985 Solutions Manual to Accompany Statistics by Example, Second Edition by Terry Sincich James A. Bolognese, 1985 **Biostatistics** George G. Woodworth, 2004-09-06 An essential introductory text linking traditional biostatistics with bayesian methods In recent years Bayesian methods have seen an explosion of interest with applications in fields including biochemistry ecology medicine oncology pharmacology and public health As an interpretive system integrating data with observation the Bayesian approach provides a nuanced yet mathematically rigorous means of conceptualizing biomedical statistics from diagnostic tests to DNA evidence Biostatistics A Bayesian Introduction offers a pioneering approach by presenting the foundations of biostatistics through the Bayesian lens Using easily understood classic Dutch Book thought experiments to derive subjective probability from a simple principle of rationality the book connects statistical science with scientific reasoning The author shows how to compute interpret and report Bayesian statistical analyses in practice and illustrates how to reinterpret traditional statistical reporting such as confidence intervals margins of error and one sided p values in Bayesian terms Topics covered include Probability and subjective probability Distributions and descriptive statistics Continuous probability distributions Comparing rates and means Linear models and statistical adjustment Logistic regression and adjusted odds ratios Survival analysis Hierarchical models and meta analysis Decision theory and sample size determination The book includes extensive problem sets and references in each chapter as well as complete instructions on computer analysis with the versatile SAS and WinBUGS software packages as well as the Excel spreadsheet program For professionals and students Biostatistics A Bayesian Introduction offers an unique real world entry point into a remarkable alternative method of interpreting statistical data **Statistics Catalog 2005** Neil Thomson, 2004-09 Subject Guide to Books in Print , 1993 **American Book Publishing Record** , 2007

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