AN INTRODUCTION TO CATEGORICAL DATA ANALYSIS, 2nd ed.

SOLUTIONS TO SELECTED PROBLEMS for STA 4504/5503

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. $\ell(\pi) = 2\pi(1 - \pi)$.
d. From the plot or using calculus by taking the derivative and setting it equal to 0, the function $\ell(\pi) = 2\pi(1 - \pi)$ 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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Yang, Harrison Hao,Wang, Shuyan

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   Analysis of Categorical Data with R Christopher R. Bilder,Thomas M. Loughin,2024-07-31 Analysis of Categorical Data with R Second Edition presents a modern account of categorical data 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 Analysis of Categorical Data with R Second Edition is primarily designed for a course on categorical data analysis taught at the advanced undergraduate or graduate level Such a course could be taught in a statistics or biostatistics department or within mathematics psychology social science ecology or another quantitative discipline It could also be used by a self learner and would make an ideal reference for a researcher from any discipline where categorical data arise   *An Introduction to Psychometrics and Psychological Assessment* Colin Cooper,2023-05-09 An Introduction to Psychometrics and Psychological Assessment is the successor to Cooper s prize winning book Psychological Testing Theory and Practice This expanded and updated volume shows how psychological questionnaires and tests can be chosen administered scored interpreted and developed In providing students researchers test users test developers and practitioners in the social sciences education and health with an evaluative guide to choosing using interpreting and developing tests it provides readers a thorough grasp of the principles and limitations of testing together with the necessary methodological detail This book has three distinctive features First it stresses the basic logic of psychological assessment without getting bogged down with mathematics the spreadsheet simulations and utilities which are integrated into the text allow users to explore how numbers behave rather than reading equations Readers will learn by doing Second it covers both the theory behind psychological assessment and the practicalities of locating designing and using tests and interpreting their scores Finally it is evaluative Rather than just describing concepts such as test reliability or adaptive testing it stresses the underlying principles merits and drawbacks of each approach to assessment and methods of

developing and evaluating questionnaires and tests Unusually for an introductory text it includes coverage of several cutting edge techniques and this new edition expands the discussion on measurement invariance methods of detecting quantifying bias and hierarchical factor models and features added sections on Best practices for translation of tests into other languages and problems of cultural bias Automatic item generation The advantages drawbacks and practicalities of internet based testing Generalizability theory Network analysis Dangerous assumptions made when scoring tests The accuracy of tests used for assessing individuals The two way relationship between psychometrics and psychological theory Aimed at non mathematicians this friendly and engaging text will help you to understand the fundamental principles of psychometrics that underpin the measurement of any human characteristic using any psychological test Written by a leading figure in the field and accompanied by additional resources including a set of spreadsheets which use simulated data and other techniques to illustrate important issues this is an essential introduction for all students of psychology and related disciplines It assumes very little statistical background and is written for students studying psychological assessment or psychometrics and for researchers and practitioners who use questionnaires and tests to measure personality cognitive abilities educational attainment mood or motivation **Cases on E-Learning Management: Development and Implementation** Yang, Harrison Hao,Wang, Shuyan,2012-07-31 New technologies can help teachers and trainers empower learners and create exciting new learning opportunities for students However these facilitators must also create e learning contexts which are properly scaffolded to serve the needs of learners Cases on E Learning Management Development and Implementation meets this challenge by providing innovative case studies covering a range of topics such as teacher education mobile and blended learning strategies e learning tutorial content digital cognitive games Science Technology Engineering and Mathematics STEM education and distance education This casebook will enhance the work of educators instructional designers trainers administrators and researchers in the areas of online learning and distance learning Working with Data in Public Health: A Practical Pathway with R Peng Zhao,2023-03-29 This book provides a complete practical guide of processing data in public health with R language On the basis of the author s research and teaching experiences this book serves either as a textbook for undergraduates and graduates in public health or as a tutorial for self learning Many first hand examples are presented with source data R scripts and graphs as well as detailed explanations which could be easily reproduced by readers so as to better understand the data processing principles and procedures Popular and novel R packages in public health are introduced as well **An Introduction to Evaluation** Chris Fox,Robert Grimm,Rute Caldeira,2016-10-18 Both practical and theoretical in approach this book is the perfect companion for student researchers and policy makers alike It provides actionable advice for planning and implementing evaluations while also instilling an ability to assess the evaluations of others and consider the ways in which evaluation evidence could influence policy and practice Drawing upon a wide range of examples from policy areas like education criminal justice and health and social care this book showcases how evaluation is

an interdisciplinary research practice with a spectrum of applications Each chapter contains philosophical underpinnings and applied knowledge as well as examples from published evaluations Specific topics include how to Choose an approach to evaluation Plan design and conduct evaluations Approach evaluations using theories of change Differentiate between process impact and economic evaluations Understand the role of quantitative and qualitative methods in data collection Use systematic reviews and other tools to assess and disseminate evaluation findings From getting started in the field to turning evidence into policy this book will guide you through every step of the evaluation process   *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 than 1 200 sources A supplementary website showing how to use R and SAS for all examples in the text with information also about SPSS and Stata and with exercise solutions Categorical Data Analysis Third Edition is an invaluable tool for statisticians and methodologists such as biostatisticians and researchers in the social and behavioral sciences medicine and public health marketing education finance biological and agricultural sciences and industrial quality control   DP-300 Practice Questions for Microsoft Azure Database Administrator Associate Certification Dormouse Quillsby, NotJustExam DP 300 Practice Questions for Microsoft Azure Database Administrator Associate Certification Struggling to find quality study materials for the Microsoft Certified Azure Database Administrator Associate DP 300 exam Our question bank offers over 360 carefully selected practice questions with detailed explanations insights from online discussions and AI enhanced reasoning to help you master the concepts and ace the certification Say goodbye to inadequate resources and confusing online answers we re here to transform your exam preparation experience Why Choose Our DP 300 Question Bank Have you ever felt that official

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Stone approach wherein understanding of one software and of its associated language will be greatly enhanced by seeing the analogous code in other engines Provides all code available for download for students at https www elsevier com books and journals book companion 9780443137150   Bayesian Statistics for Experimental Scientists Richard A. Chechile,2020-09-08 An introduction to the Bayesian approach to statistical inference that demonstrates its superiority to orthodox frequentist statistical analysis This book offers an introduction to the Bayesian approach to statistical inference with a focus on nonparametric and distribution free methods It covers not only well developed methods for doing Bayesian statistics but also novel tools that enable Bayesian statistical analyses for cases that previously did not have a full Bayesian solution The book s premise is that there are fundamental problems with orthodox frequentist statistical analyses that distort the scientific process Side by side comparisons of Bayesian and frequentist methods illustrate the mismatch between the needs of experimental scientists in making inferences from data and the properties of the standard tools of classical statistics The book first covers elementary probability theory the binomial model the multinomial model and methods for comparing different experimental conditions or groups It then turns its focus to distribution free statistics that are based on having ranked data examining data from experimental studies and rank based correlative methods Each chapter includes exercises that help readers achieve a more complete understanding of the material The book devotes considerable attention not only to the linkage of statistics to practices in experimental science but also to the theoretical foundations of statistics Frequentist statistical practices often violate their own theoretical premises The beauty of Bayesian statistics readers will learn is that it is an internally coherent system of scientific inference that can be proved from probability theory   *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 **R for Data Science Cookbook** Yu-Wei, Chiu (David Chiu),2016-07-29 Over 100 hands on recipes to effectively solve real world data problems using the most popular R packages and techniques About This Book Gain insight into how data scientists collect process analyze and visualize data using some of the most popular R packages Understand how to apply useful data analysis techniques in R for real world applications An easy to follow guide to make the life of data scientist easier with the problems faced while performing data analysis Who This Book Is For This book is for those who are already familiar with the basic operation of R but want to learn how to efficiently and effectively analyze real world data problems using practical R packages What You Will Learn Get to know the functional characteristics of R language Extract transform and load data from heterogeneous sources Understand how easily R can confront probability and statistics problems Get simple R instructions to quickly organize and manipulate large datasets Create professional data visualizations and interactive reports Predict user purchase behavior by adopting a classification approach Implement data mining techniques to discover items that are frequently purchased together Group similar text documents by using various clustering methods In Detail This cookbook offers a range of data analysis samples in simple and straightforward R code providing step by step resources and time saving methods to help you solve data problems efficiently The first section deals with how to create R functions to avoid the unnecessary duplication of code You will learn how to prepare process and perform sophisticated ETL for heterogeneous data sources with R packages An example of data manipulation is provided illustrating how to use the dplyr and data table packages to efficiently process larger data structures We also focus on ggplot2 and show you how to create advanced figures for data exploration In addition you will learn how to build an interactive report using the ggvis package Later chapters offer insight into time series analysis on financial data while there is detailed information on the hot topic of machine learning including data classification regression clustering association rule mining and dimension reduction By the end of this book you will understand how to resolve issues and will be able to comfortably offer solutions to problems encountered while performing data analysis Style and approach This easy to follow guide is full of hands on examples of data analysis with R Each topic is fully explained beginning with the core concept followed by step by step practical examples and concluding with detailed explanations of each concept used **Technometrics** ,1998 **Journal of the American Statistical Association** ,2006 A scientific and educational journal not only for professional statisticians but also for economists business executives research directors government officials university professors and others who are seriously interested in the application of statistical methods to practical problems in the development of more useful methods and in the improvement of basic statistical data *Analysis of Ordinal Categorical Data* Alan Agresti,2012-07-02 Statistical science s first coordinated manual of methods for analyzing ordered categorical data now fully revised and updated continues to present applications

and case studies in fields as diverse as sociology public health ecology marketing and pharmacy Analysis of Ordinal Categorical Data Second Edition provides an introduction to basic descriptive and inferential methods for categorical data giving thorough coverage of new developments and recent methods Special emphasis is placed on interpretation and application of methods including an integrated comparison of the available strategies for analyzing ordinal data Practitioners of statistics in government industry particularly pharmaceutical and academia will want this new edition *Analyzing Categorical Data* Jeffrey S. Simonoff,2013-06-05 Categorical data arise often in many fields including biometrics economics management manufacturing marketing psychology and sociology This book provides an introduction to the analysis of such data The coverage is broad using the loglinear Poisson regression model and logistic binomial regression models as the primary engines for methodology Topics covered include count regression models such as Poisson negative binomial zero inflated and zero truncated models loglinear models for two dimensional and multidimensional contingency tables including for square tables and tables with ordered categories and regression models for two category binary and multiple category target variables such as logistic and proportional odds models All methods are illustrated with analyses of real data examples many from recent subject area journal articles These analyses are highlighted in the text and are more detailed than is typical providing discussion of the context and background of the problem model checking and scientific implications More than 200 exercises are provided many also based on recent subject area literature Data sets and computer code are available at a web site devoted to the text Adopters of this book may request a solutions manual from textbook springer ny com From the reviews Jeff Simonoff s book is at the top of the heap of categorical data analysis textbooks The examples are superb Student reactions in a class I taught from this text were uniformly positive particularly because of the examples and exercises Additional materials related to the book particularly code for S Plus SAS and R useful for analysis of examples can be found at the author s Web site at New York University I liked this book for this reason and recommend it to you for pedagogical purposes Stanley Wasserman The American Statistician August 2006 Vol 60 No 3 The book has various noteworthy features The examples used are from a variety of topics including medicine economics sports mining weather as well as social aspects like needle exchange programs The examples motivate the theory and also illustrate nuances of data analytical procedures The book also incorporates several newer methods for analyzing categorical data including zero inflated Poisson models robust analysis of binomial and poisson models sandwich estimators multinomial smoothing ordinal agreement tables this is definitely a good reference book for any researcher working with categorical data Technometrics May 2004 This guide provides a practical approach to the appropriate analysis of categorical data and would be a suitable purchase for individuals with varying levels of statistical understanding Paediatric and Perinatal Epidemiology 2004 18 This book gives a fresh approach to the topic of categorical data analysis The presentation of the statistical methods exploits the connection to regression modeling with a focus on practical features rather than formal theory There is much to learn from

this book Aside from the ordinary materials such as association diagrams Mantel Haenszel estimators or overdispersion the reader will also find some less often presented but interesting and stimulating topics T his is an excellent book giving an up to date introduction to the wide field of analyzing categorical data Biometrics September 2004 It is of great help to data analysts practitioners and researchers who deal with categorical data and need to get a necessary insight into the methods of analysis as well as practical guidelines for solving problems International Journal of General Systems August 2004 The author has succeeded in writing a useful and readable textbook combining most of general theory and practice of count data Kwantitatieve Methoden The book especially stresses how to analyze and interpret data In fact the highly detailed multi page descriptions of analysis and interpretation make the book stand out Mathematical Geology February 2005 Overall this is a competent and detailed text that I would recommend to anyone dealing with the analysis of categorical data Journal of the Royal Statistical Society This important work allows for clear analogies between the well known linear models for Gaussian data and categorical data problems Jeffrey Simonoff s Analyzing Categorical Data provides an introduction to many of the important ideas and methods for understanding counted data and tables of counts Some readers will find Simonoff s style very much to their liking due to reliance on extended real data examples to illuminate ideas I think the extensive examples will appeal to most students Sanford Weisberg SIAM Review Vol 47 4 2005 It is clear that the focus of Simonoff s book is different from other books on categorical data analysis As an introductory textbook the book is comprehensive enough since all basic topics in categorical data analysis are discussed I think Simonoff s book is a valuable addition to the literature because it discusses important models for counts Jeroen K Vermunt Statistics in Medicine Vol 24 2005 The author based this book on his notes for a class with a very diverse pool of students The material is presented in such a way that a very heterogeneous group of students could grasp it All methods are illustrated with analyses of real data examples The author provides a detailed discussion of the context and background of the problem The book is very interesting and can be warmly recommended to people working with categorical data EMS European Mathematical Society Newsletter December 2004 Categorical data arise often in many fields This book provides an introduction to the analysis of such data All methods are illustrated with analyses of real data examples many from recent subject area journal articles These analyses are highlighted in the text and are more detailed than is typical More than 200 exercises are provided including many based on recent subject area literature Data sets and computer code are available at a Web site devoted to this text T Postelnicu Zentralblatt MATH Vol 1028 2003 This book grew out of notes prepared by the author for classes in categorical data analysis The presentation is fresh and compelling to read Regression ideas are used to motivate the modelling presented The book focuses on applying methods to real problems many of these will be novel to readers of statistics texts All chapters end with a section providing references to books or articles for the inquiring reader C M O Brien Short Book Reviews Vol 23 3 2003   *An Introduction to Categorical Data Analysis* Alan Agresti,2007-03-23 Praise for the First Edition This is a superb text from

which to teach categorical data analysis at a variety of levels t his book can be very highly recommended Short Book Reviews Of great interest to potential readers is the variety of fields that are represented in the examples health care financial government product marketing and sports to name a few Journal of Quality Technology Alan Agresti has written another brilliant account of the analysis of categorical data The Statistician The use of statistical methods for categorical data is ever increasing in today s world An Introduction to Categorical Data Analysis Second Edition provides an applied introduction to the most important methods for analyzing categorical data This new edition summarizes methods that have long played a prominent role in data analysis such as chi squared tests and also places special emphasis on logistic regression and other modeling techniques for univariate and correlated multivariate categorical responses This Second Edition features Two new chapters on the methods for clustered data with an emphasis on generalized estimating equations GEE and random effects models A unified perspective based on generalized linear models An emphasis on logistic regression modeling An appendix that demonstrates the use of SAS r for all methods An entertaining historical perspective on the development of the methods Specialized methods for ordinal data small samples multicategory data and matched pairs More than 100 analyses of real data sets and nearly 300 exercises Written in an applied nontechnical style the book illustrates methods using a wide variety of real data including medical clinical trials drug use by teenagers basketball shooting horseshoe crab mating environmental opinions correlates of happiness and much more An Introduction to Categorical Data Analysis Second Edition is an invaluable tool for social behavioral and biomedical scientists as well as researchers in public health marketing education biological and agricultural sciences and industrial quality control   **Categorical Data Analysis for the Behavioral and Social Sciences** Razia Azen,Cindy M. Walker,2021-05-26 Featuring a practical approach with numerous examples the second edition of Categorical Data Analysis for the Behavioral and Social Sciences focuses on helping the reader develop a conceptual understanding of categorical methods making it a much more accessible text than others on the market The authors cover common categorical analysis methods and emphasize specific research questions that can be addressed by each analytic procedure including how to obtain results using SPSS SAS and R so that readers are able to address the research questions they wish to answer Each chapter begins with a Look Ahead section to highlight key content This is followed by an in depth focus and explanation of the relationship between the initial research question the use of software to perform the analyses and how to interpret the output substantively Included at the end of each chapter are a range of software examples and questions to test knowledge New to the second edition The addition of R syntax for all analyses and an update of SPSS and SAS syntax The addition of a new chapter on GLMMs Clarification of concepts and ideas that graduate students found confusing including revised problems at the end of the chapters Written for those without an extensive mathematical background this book is ideal for a graduate course in categorical data analysis taught in departments of psychology educational psychology human development and family studies sociology public health and

business Researchers in these disciplines interested in applying these procedures will also appreciate this book s accessible approach   *A Course in Categorical Data Analysis* Thomas Leonard,2020-08-26 Categorical data comprising counts of individuals objects or entities in different categories emerge frequently from many areas of study including medicine sociology geology and education They provide important statistical information that can lead to real life conclusions and the discovery of fresh knowledge Therefore the ability to manipulate understand and interpret categorical data becomes of interest if not essential to professionals and students in a broad range of disciplines Although t tests linear regression and analysis of variance are useful valid methods for analysis of measurement data categorical data requires a different methodology and techniques typically not encountered in introductory statistics courses Developed from long experience in teaching categorical analysis to a multidisciplinary mix of undergraduate and graduate students A Course in Categorical Data Analysis presents the easiest most straightforward ways of extracting real life conclusions from contingency tables The author uses a Fisherian approach to categorical data analysis and incorporates numerous examples and real data sets Although he offers S PLUS routines through the Internet readers do not need full knowledge of a statistical software package In this unique text the author chooses methods and an approach that nurtures intuitive thinking He trains his readers to focus not on finding a model that fits the data but on using different models that may lead to meaningful conclusions The book offers some simple innovative techniques not highlighted in other texts that help make the book accessible to a broad interdisciplinary audience A Course in Categorical Data Analysis enables readers to quickly use its offering of tools for drawing scientific medical or real life conclusions from categorical data sets   **Categorical Data Analysis by Example** Graham J. G. Upton,2016-10-24 Introduces the key concepts in the analysis of categoricaldata with illustrative examples and accompanying R code This book is aimed at all those who wish to discover how to analyze categorical data without getting immersed in complicated mathematics and without needing to wade through a large amount of prose It is aimed at researchers with their own data ready to be analyzed and at students who would like an approachable alternative view of the subject Each new topic in categorical data analysis is illustrated with an example that readers can apply to their own sets of data In many cases R code is given and excerpts from the resulting output are presented In the context of log linear models for cross tabulations two specialties of the house have been included the use of cobweb diagrams to get visual information concerning significant interactions and a procedure for detecting outlier category combinations The R code used for these is available and may be freely adapted In addition this book Uses an example to illustrate each new topic in categorical data Provides a clear explanation of an important subject Is understandable to most readers with minimal statistical and mathematical backgrounds Contains examples that are accompanied by R code and resulting output Includes starred sections that provide more background details for interested readers Categorical Data Analysis by Example is a reference for students in statistics and researchers in other disciplines especially the social sciences who use categorical data This book is

also a reference for practitioners in market research medicine and other fields

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