

CATEGORICAL DATA ANALYSIS, 3rd edition

Solutions to Selected Exercises

Alan Agresti

Version August 3, 2012, ©Alan Agresti 2012

This file contains solutions and hints to solutions for some of the exercises in *Categorical Data Analysis*, third edition, by Alan Agresti (John Wiley, & Sons, 2012). The solutions given are partly those that are also available at the website www.stat.ufl.edu/~aa/cda2/cda.html for many of the odd-numbered exercises in the second edition of the book (some of which are now even-numbered). I intend to expand the document with additional solutions, when I have time.

Please report errors in these solutions to the author (Department of Statistics, University of Florida, Gainesville, Florida 32611-8545, e-mail AA@STAT.UFL.EDU), so they can be corrected in future revisions of this site. The author regrets that he cannot provide students with more detailed solutions or with solutions of other exercises not in this file.

Chapter 1

1. a. nominal, b. ordinal, c. interval, d. nominal, e. ordinal, f. nominal.
3. π varies from batch to batch, so the counts come from a mixture of binomials rather than a single $\text{bin}(n, \pi)$. $\text{Var}(Y) = E[\text{Var}(Y \mid \pi)] + \text{Var}[E(Y \mid \pi)] > E[\text{Var}(Y \mid \pi)] = E[n\pi(1 - \pi)]$.
7. a. $\ell(\pi) = \pi^{20}$, so it is not close to quadratic.
 b. $\hat{\pi} = 1.0$. Wald statistic $z = (1.0 - .5) / \sqrt{1.0(0)/20} = \infty$. Wald CI is $1.0 \pm 1.96\sqrt{1.0(0)/20} = 1.0 \pm 0.0$, or $(1.0, 1.0)$. These are not sensible.
 c. $z = (1.0 - .5) / \sqrt{.5(.5)/20} = 4.47$, $P < 0.0001$. Score CI is $(0.839, 1.000)$.
 d. Test statistic $2(20) \log(20/10) = 27.7$, $df = 1$. The CI is $(\exp(-1.96^2/40), 1) = (0.908, 1.0)$.
 e. $P\text{-value} = 2(.5)^{20} = .00000191$.
9. The chi-squared goodness-of-fit test of the null hypothesis that the binomial proportions equal $(0.75, 0.25)$ has expected frequencies $(827.25, 275.75)$, and $X^2 = 3.46$ based on $df = 1$. The P -value is 0.063, giving moderate evidence against the null.
10. The sample mean is 0.61. Fitted probabilities for the truncated distribution are 0.543, 0.332, 0.102, 0.021, 0.003. The estimated expected frequencies are 108.5, 66.4, 20.3, 4.1, and 0.6, and the Pearson $X^2 = 0.7$ with $df = 3$ (0.3 with $df = 2$ if we truncate at 3 and above). The fit seems adequate.
11. With the binomial test the smallest possible P -value, from $y = 0$ or $y = 5$, is

Solution Manual For Random Data Analysis 3rd

**Hans Kuhn, David H. Waldeck, Horst-
Dieter Försterling**



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Student's Solutions Manual for Discovering Statistics Daniel T. Larose, 2009-07-17 The Student Solutions Manual offers detailed solutions for key exercises from each section of Discovering Statistics *Solutions Manual to Accompany Fundamentals of Environmental Sampling and Analysis* Chunlong Zhang, 2024-07-04 This is the Solutions Manual to accompany Fundamentals of Environmental Sampling and Analysis Second Edition It provides solutions to the exercises and problems found in the main volume This book introduces a comprehensive overview on the fundamentals and applications of environmental sampling and analysis for students in environmental science and engineering as well as environmental professionals involved in sampling and analytical work The book details fundamentals of sampling selection of standard methods QA QC sample preparation chemical and instrumental principles and method applications to various contaminants in environmental matrices air water soil waste and biological samples The book gives an integrated introduction to sampling and analysis both are essential to quality environmental data For example contrary to other books that introduce a specific area of sampling and analysis this text provides a balanced mix of field sampling and laboratory analysis essential knowledge in chemistry statistics hydrology regulations wet chemical methods for conventional chemicals as well as various modern instrumental techniques for contaminants of emerging concerns The new edition adds three standalone chapters regarding the basics of analytical and organic chemistry environmental data analysis mass spectrometry and other significant amounts of new materials such as time integrated passive sampling incremental sampling green sample preparation Raman spectroscopy chiral separation and non target analysis In addition the second edition provides more examples visual aids case studies and end of chapter exercise problems to enhance a better understanding of the fundamentals of environmental sampling and analysis while incorporating current literature mostly peer reviewed journal papers regarding the applications and challenges in the field of environmental sampling and analysis **Student Solutions Manual to accompany**

Statistics: From Data to Decision, 2e Ann E. Watkins, Richard L. Scheaffer, George W. Cobb, 2010-04-26 This book teaches statistics with a modern data analytic approach that uses graphing calculators and statistical software It allows more emphasis to be put on statistical concepts and data analysis than on following recipes for calculations This gives readers a more realistic understanding of both the theoretical and practical applications of statistics giving them the ability to master the subject Solutions Manual to accompany Modern Engineering Statistics Thomas P. Ryan, 2007-10-12 An introductory

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Oshida,1975-01-01 **Statistical Data Analytics** Walter W. Piegorsch,2016-03-22 Solutions Manual to accompany Statistical Data Analytics Foundations for Data Mining Informatics and Knowledge Discovery A comprehensive introduction to statistical methods for data mining and knowledge discovery Extensive solutions using actual data with sample R programming code are provided illustrating diverse informatic sources in genomics biomedicine ecological remote sensing astronomy socioeconomics marketing advertising and finance among many others *Scientific and Technical Aerospace Reports* ,1990 The Practice of Business Statistics Excel Manual Fred Hoppe,David S. Moore,George P. McCabe,William M. Duckworth,Stanley L. Sclove,2003-05-16 *Solutions Manual for The Statistical Analysis of Data, Second Edition* Theodore Wilbur Anderson,1986 □□□□□□□□:□□□□□□ □□□□□□,2002 Student Solutions Manual for For All Practical Purposes COMAP,2008-12-26 Contains complete solutions to odd numbered problems in text Solutions Manual for Principles of Physical Chemistry, 3rd Edition, Solutions Manual Hans Kuhn,David H. Waldeck,Horst-Dieter Försterling,2024-10-25 This is a Solutions Manual to Accompany with solutions to the exercises in the main volume of Principles of Physical Chemistry Third Edition This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry which are the foundational principles of Chemistry The book introduces the student to the principles underlying the essential sub fields of quantum mechanics atomic and molecular structure atomic and molecular spectroscopy statistical thermodynamics classical thermodynamics solutions and equilibria electrochemistry kinetics and reaction dynamics macromolecules and organized molecular assemblies Importantly the book develops and applies these principles to supramolecular assemblies and supramolecular machines with many examples from biology and nanoscience In this way the book helps the student to see the frontier of modern physical chemistry developments The book begins with a discussion of wave particle duality and proceeds systematically to more complex chemical systems in order to relate the story of physical chemistry in an intellectually coherent manner The topics are organized to correspond with those typically given in each of a two course semester sequence The first 13 chapters present quantum mechanics and spectroscopy to describe and predict the structure of matter atoms molecules and solids Chapters 14 to 29 present statistical thermodynamics and kinetics and applies their principles to understanding equilibria chemical transformations macromolecular properties and supramolecular machines Each chapter of the book begins with a simplified view of a topic and evolves to more rigorous description in order to provide the student and instructor flexibility to choose the level of rigor and detail that suits them best The textbook treats important new directions in physical chemistry research including chapters on macromolecules principles of interfaces and films for organizing matter and supramolecular machines as well as including discussions of modern nanoscience spectroscopy and reaction dynamics throughout the text **Supplementary Material and Solutions Manual for Mathematical Modeling in the Environment** Charles R. Hadlock,2020-05-05 This manual is meant to provide supplementary material and solutions to the exercises used in Charles Hadlock s textbook

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