Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card)
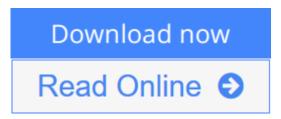
By Roxy Peck

Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck

STATISTICS: LEARNING FROM DATA, by respected and successful author Roxy Peck, resolves common problems faced by learners of elementary statistics with an innovative approach. Peck tackles the areas learners struggle with most--probability, hypothesis testing, and selecting an appropriate method of analysis--unlike any book on the market. Probability coverage is based on current research that shows how users best learn the subject. Two unique chapters, one on statistical inference and another on learning from experiment data, address two common areas of confusion: choosing a particular inference method and using inference methods with experimental data. Supported by learning objectives, real-data examples and exercises, and technology notes, this brand new book guides readers in gaining conceptual understanding, mechanical proficiency, and the ability to put knowledge into practice.

Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card)

By Roxy Peck

Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck

STATISTICS: LEARNING FROM DATA, by respected and successful author Roxy Peck, resolves common problems faced by learners of elementary statistics with an innovative approach. Peck tackles the areas learners struggle with most--probability, hypothesis testing, and selecting an appropriate method of analysis--unlike any book on the market. Probability coverage is based on current research that shows how users best learn the subject. Two unique chapters, one on statistical inference and another on learning from experiment data, address two common areas of confusion: choosing a particular inference method and using inference methods with experimental data. Supported by learning objectives, real-data examples and exercises, and technology notes, this brand new book guides readers in gaining conceptual understanding, mechanical proficiency, and the ability to put knowledge into practice.

Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck Bibliography

- Sales Rank: #207051 in Books
- Published on: 2014-01-01
- Original language: English
- Number of items: 1
- Dimensions: 11.25" h x 8.50" w x 1.25" l, .0 pounds
- Binding: Hardcover
- 720 pages

 Download Statistics: Learning from Data (with JMP and JMP S ...pdf

 Read Online Statistics: Learning from Data (with JMP and JMP ...pdf

Download and Read Free Online Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck

Editorial Review

Review

Learning from Data. Statistics--It's All About Variability. The Data Analysis Process. Goals for Student Learning. The Structure of the Chapters that Follow. Section I: COLLECTING DATA. 1. Collecting Data in Reasonable Ways. Statistical Studies: Observation and Experimentation. Collecting Data: Planning an Observational Study. Collecting Data: Planning an Experiment. The Importance of Random Selection and Random Assignment: What Types of Conclusions are Reasonable? Section II: DESCRIBING DATA DISTRIBUTIONS. 2. Graphical Methods for Describing Data Distributions. Selecting an Appropriate Graphical Display. Displaying Categorical Data: Bar Charts and Comparative Bar Charts. Displaying Numerical Data: Dotplots, Stem-and-Leaf Displays, and Histograms. Displaying Bivariate Numerical Data: Scatterplots and Time-Series Plots. Graphical Displays in the Media. 3. Numerical Methods for Describing Data Distributions. Selecting Appropriate Numerical Summaries. Describing Center and Spread for Data Distributions that are Approximately Symmetric. Describing Center and Spread for Data Distributions that are Skewed or Have Outliers. Summarizing a Data Set: Boxplots. Measures of Relative Standing: z-scores and Percentiles. 4. Describing Bivariate Numerical Data. Correlation. Linear Regression: Fitting a Line to Bivariate Data. Assessing the Fit of a Line. Describing Linear Relationships and Making Predictions--Putting it all Together. Bonus Material on Logistic Regression (Online). Section III: A FOUNDATION FOR INFERENCE: REASONING ABOUT PROBABILITY. 5. Probability. Interpreting Probabilities. Computing Probabilities. Probabilities of More Complex Events: Unions, Intersections and Complements. Conditional Probability. Probability as a Basis for Making Decisions. Estimating Probabilities Empirically and Using Simulation (Optional). 6. Random Variables and Probability Distributions. Random Variables. Probability Distributions for Discrete Random Variables. Probability Distributions for Continuous Random Variables. The Mean and Standard Deviation of a Random Variable. The Normal Distribution. Checking for Normality. The Binomial and Geometric Distributions (Optional). Using the Normal Distribution to Approximate a Discrete Distribution (Optional). Counting Rules, The Poisson Distribution (Online). Section IV: LEARNING FROM SAMPLE DATA. 7. An Overview of Statistical Inference--Learning from Data. Statistical Inference--What We Can Learn From Data. Selecting an Appropriate Method--Four Key Questions. A Five-Step Process for Statistical Inference. 8. Sampling Variability and Sampling Distributions. Statistics and Sampling Variability. The Sampling Distribution of a Sample Proportion. How Sampling Distributions Support Learning From Data. 9. Estimating a Population Proportion. Selecting an Estimator. Estimating a Population Proportion--Margin of Error. A Large-Sample Confidence Interval for a Population Proportion. Choosing a Sample Size to Achieve a Desired Margin of Error. 10. Asking and Answering Questions about a Population Proportion. Hypotheses and Possible Conclusions. Potential Errors in Hypothesis Testing. The Logic of Hypothesis Testing--An Informal Example. A Procedure for Carrying Out a Hypothesis Test. Large-Sample Hypothesis Tests for a Population Proportion. 11. Asking and Answering Questions about the Difference between Two Population Proportions. Estimating the Difference between Two Population Proportions. Testing Hypotheses about the Difference between Two Population Proportions. 12. Asking and Answering Questions about a Population Mean. Sampling Distribution of the Sample Mean. A Confidence Interval for a Population Mean. Testing Hypotheses about a Population Mean. 13. Asking and Answering Questions about the Difference between Two Population Means. Testing Hypotheses about the Difference between Two Population Means Using Independent Samples. Testing Hypotheses about the Difference between Two Population Means Using Paired Samples. Estimating the Difference between Two Population Means. Section V: ADDITIONAL OPPORTUNITIES TO LEARN FROM DATA. 14. Learning from Experiment Data. Variability and Random Assignment. Testing Hypotheses about Differences in Treatment Effects. Estimating a Difference in Treatment Effects. 15. Learning from Categorical Data. Chi-

Square Tests for Univariate Categorical Data. Tests for Homogeneity and Independence in a Two-Way Table. 16. Understanding Relationships--Numerical Data Part 2 (Online). The Simple Linear Regression Model. Inferences Concerning the Slope of the Population Regression Line. Checking Model Adequacy. 17. Asking and Answering Questions about More Than Two Means (Online). The Analysis of Variance--Single-Factor ANOVA and the F Test. Multiple Comparisons. Appendix: ANOVA Computations.

About the Author

Roxy Peck is Emerita Associate Dean of the College of Science and Mathematics and Professor of Statistics Emerita at California Polytechnic State University, San Luis Obispo. A faculty member at Cal Poly from 1979 until 2009, Roxy served for six years as Chair of the Statistics Department before becoming Associate Dean, a position she held for 13 years. She received an M.S. in Mathematics and a Ph.D. in Applied Statistics from the University of California, Riverside. Roxy is nationally known in the area of statistics education, and she was presented with the Lifetime Achievement Award in Statistics Education at the U.S. Conference on Teaching Statistics in 2009. In 2003 she received the American Statistical Association's Founder's Award, recognizing her contributions to K-12 and undergraduate statistics education. She is a Fellow of the American Statistical Association and an elected member of the International Statistics Institute. Roxy served for five years as the Chief Reader for the Advanced Placement Statistics Exam and has chaired the American Statistical Association's Joint Committee with the National Council of Teachers of Mathematics on Curriculum in Statistics and Probability for Grades K-12 and the Section on Statistics Education. In addition to her texts in introductory statistics, Roxy is also co-editor of "Statistical Case Studies: A Collaboration Between Academe and Industry" and a member of the editorial board for "Statistics: A Guide to the Unknown, 4th Edition." Outside the classroom, Roxy likes to travel and spends her spare time reading mystery novels. She also collects Navajo rugs and heads to Arizona and New Mexico whenever she can find the time.

Users Review

From reader reviews:

George Kirby:

Why don't make it to be your habit? Right now, try to ready your time to do the important work, like looking for your favorite e-book and reading a book. Beside you can solve your long lasting problem; you can add your knowledge by the book entitled Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card). Try to face the book Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) as your good friend. It means that it can for being your friend when you sense alone and beside associated with course make you smarter than before. Yeah, it is very fortuned for you. The book makes you considerably more confidence because you can know everything by the book. So , we should make new experience and knowledge with this book.

Julio Yates:

A lot of people always spent their free time to vacation or maybe go to the outside with them family or their friend. Are you aware? Many a lot of people spent they free time just watching TV, or even playing video games all day long. If you would like try to find a new activity that is look different you can read a book. It is really fun to suit your needs. If you enjoy the book that you simply read you can spent 24 hours a day to reading a publication. The book Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) it is extremely good to read. There are a lot of those who recommended this book. These were enjoying reading this book. If you did not have enough space to create this book you can

buy the particular e-book. You can m0ore very easily to read this book from a smart phone. The price is not to fund but this book features high quality.

Mary Logsdon:

Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) can be one of your beginner books that are good idea. We all recommend that straight away because this reserve has good vocabulary that may increase your knowledge in words, easy to understand, bit entertaining but still delivering the information. The article writer giving his/her effort to set every word into pleasure arrangement in writing Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) but doesn't forget the main position, giving the reader the hottest and also based confirm resource data that maybe you can be among it. This great information can easily drawn you into fresh stage of crucial thinking.

Curtis Hernandez:

Your reading sixth sense will not betray you, why because this Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) guide written by well-known writer whose to say well how to make book that can be understand by anyone who have read the book. Written throughout good manner for you, still dripping wet every ideas and writing skill only for eliminate your hunger then you still hesitation Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) as good book not only by the cover but also from the content. This is one guide that can break don't judge book by its protect, so do you still needing yet another sixth sense to pick this particular!? Oh come on your reading sixth sense already told you so why you have to listening to yet another sixth sense.

Download and Read Online Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck #G5ZI86JOV1L

Read Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck for online ebook

Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck books to read online.

Online Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck ebook PDF download

Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck Doc

Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck Mobipocket

Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck EPub

G5ZI86JOV1L: Statistics: Learning from Data (with JMP and JMP Statistical Discovery Software Printed Access Card) By Roxy Peck