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Nota di contenuto	Title Page; Copyright Page; Contents; Preface; Chapter 1 Introduction: It Seemed Like the Right Thing To Do at the Time; WHEN GOOD STATISTICS GO BAD: COMMON MISTAKES AND THE IMPACT THEY HAVE; STATISTICS 101: CONCEPTS YOU SHOULD KNOW BEFORE READING THIS BOOK; Probability Theory; Statistics; TIPS, TRICKS, AND TECHNIQUES: A ROAD MAP OF WHAT FOLLOWS; BIBLIOGRAPHY; Chapter 2 The Type A Diet: Sampling Strategies to Eliminate Confounding and Reduce Your Waistline; THE BASICS OF PLANNING A STUDY; MY STATISTICAL ANALYSIS IS BRILLIANT. WHY ARE MY CONCLUSIONS SO WRONG?; Answering the Wrong Question Putting Too Much Confidence in Convenience Data Confusing Association and Causation; REPLICATION, RANDOMIZATION, AND BLOCKING: THE BUILDING BLOCKS A GOOD STUDY; EXPLORATORY RESEARCH: GETTING YOUR STUDIES INTO FOCUS; DESCRIPTIVE AND EXPLANATORY RESEARCH: ANSWERING THE TARGETED QUESTIONS; Controlled Experiments: The Art of Manipulation; Observational Studies: Scientifically Approved Voyeurism; SO MANY STRATEGIES, SO LITTLE TIME; BIBLIOGRAPHY; Chapter 3 Conservatives, Liberals, and Other Political Pawns: How to Gain Power and Influence with Sample Size Calculations STEP 1. KEEP YOUR FINGER ON THE PULSE OF THE POPULACE STEP 2.

AVOID AMBIGUOUS RESULTS AND OTHER POLITICAL POTHOLES; Identify the Data Analysis Technique You Will Be Performing; Know the Difference Between Practical Significance and Statistical Significance; Note Your Practical Limitations; STEP 3. LET SAMPLE-SIZE CALCULATIONS BE YOUR RIGHT-HAND MAN; Population Means and Probabilities: Sample-Size Calculations for a Confidence Interval; Power and Sample-Size Calculations for Hypothesis Tests; STEP 4. KEEP YOUR FRIENDS CLOSE AND YOUR ENEMIES CLOSER; BIBLIOGRAPHY Chapter 4 Bunco, Bricks, and Marked Cards: Chi-Squared Tests and How to Beat a Cheater WHAT HAPPENS IN VEGAS ; HOW STATISTICIANS REMAIN DISCRETE; CONTINGENCY TABLES, CHI-SQUARED TESTS, AND OTHER WINNING STRATEGIES FOR DISCRETE DATA ANALYSIS; Turning Lemons into Gold Bars: How to Convert Qualitative Data into Quantitative Random Variables; Plots and Tables: The Poor Man's Statistical Analysis; Contingency Tables: How to Break Down a Frequency Distribution and Expose Your Variables; The Chi-Squared Test: An All-You-Can-Eat Buffet for Discrete Data Analysis; HOW TO BEAT A CHEATER; BIBLIOGRAPHY Chapter 5 WHY IT PAYS TO BE A STABLE MASTER: SUMO WRESTLERS AND OTHER ROBUST STATISTICS DESCRIPTIVE STATISTICS: A REVIEW FOR THE JONOKUCHI; Three Things You Should Know About the Sample Mean; Three Things You Should Know about the Standard Deviation; THE JAPANESE SUMO INVASION: WHY IT PAYS TO BE ROBUST; Summarizing a Sample with Percentiles; Robust Center Location; Robust and Resistant Variation; Robust Confidence Intervals; WHEN ROBUST DOES IT BETTER; HARVESTING THE AMERICAN DREAM; BIBLIOGRAPHY Chapter 6 Five-Hour Marriages: Continuous Distributions, Tests for Normality, and Juicy Hollywood Scandals

Sommario/riassunto

Features basic statistical concepts as a tool for thinking critically, wading through large quantities of information, and answering practical, everyday questions Written in an engaging and inviting manner, Beyond Basic Statistics: Tips, Tricks, and Techniques Every Data Analyst Should Know presents the more subjective side of statistics-the art of data analytics. Each chapter explores a different question using fun, common sense examples that illustrate the concepts, methods, and applications of statistical techniques. Without going into the specifics of theorems, propositions, or formula

2. Record Nr.	UNISA996204817603316
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