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METHODS?; THE PLACE OF QUANTITATIVE METHODS IN
ARCHAEOLOGICAL RESEARCH; THE EXERCISES: A COMMENT; Chapter 2.
Quantifying Description; MOVING FROM ONE LEVEL OF MEASUREMENT
TO ANOTHER; EXERCISES; Chapter 3. Picture Summaries of a Single
Variable; EXERCISES; Chapter 4. Numerical Summaries of a Single
Variable; MEASURES OF CENTRAL TENDENCY; MEASURES OF DISPERSION
THE EXPLORATORY DATA ANALYSIS VIEW OF NUMERICAL SUMMARIES:
ROBUST DESCRIPTIONS OF CENTRAL TENDENCY AND
DISPERSIONEXERCISES; Chapter 5. An Introduction to Statistical
Inference; SAMPLES AND POPULATIONS; SIGNIFICANCE TESTING IN
ARCHAEOLOGY; OTHER TESTS FOR DIFFERENCES BETWEEN TWO
ORDINAL SCALE DISTRIBUTIONS; CONCLUSION; EXERCISES; Chapter 6.
The Chi-Squared Test; THE CHI-SQUARED TEST FOR CROSS-CLASSIFIED
DATA; HOW USEFUL IS THE CHI-SQUARED TEST?; EXERCISES; Chapter 7.
Beyond Chi-Squared : Describing Association Between Two Nominal
Scale Variables; OTHER MEASURES OF ASSOCIATION
ASSOCIATION AND CAUSAL INFERENCESA MODERN APPROACH TO
INVESTIGATING RELATIONSHIPS BETWEEN NOMINAL SCALE VARIABLES:
AN ELEMENTARY INTRODUCTION TO LOG-LINEAR MODELS; EXERCISES;
Chapter 8. Numeric Variables: The Normal Distribution; THE NORMAL
DISTRIBUTION; WHAT DO WE DO IF THE DATA ARE NOT NORMALLY
DISTRIBUTED?; EXERCISES; Chapter 9. Relationships between Two
Numeric Variables: Correlation and Regression; METHODS OF VISUAL
DISPLAY: SCATTERGRAMS; DESCRIBING RELATIONSHIPS BY NUMBERS;
CONCLUSION; EXERCISES; Chapter 10. When the Regression Doesn't Fit;
RESIDUALS; THE REGRESSION MODEL
ROBUST REGRESSION: THE EXPLORATORY DATA ANALYSIS
APPROACHEXERCISES; Chapter 11. Facing Up to Complexity: Multiple
Correlation and Regression; THE MULTIPLE REGRESSION MODEL;
PARTIAL CORRELATION; MULTIPLE CORRELATION; THE MULTIPLE
REGRESSION COEFFICIENT; INTERPRETING MULTIPLE REGRESSION
COMPUTER OUTPUT; ASSUMPTIONS; EXERCISES; Chapter 12. Numerical
Classification in Archaeology; HISTORICAL INTRODUCTION; NUMERICAL
CLASSIFICATION: SOME PRELIMINARY DEFINITIONS; SIMILARITY AND
DISTANCE MEASURES; SEARCHING FOR PATTERNING IN SIMILARITY
(AND DISTANCE) MATRICES; CLUSTER ANALYSIS METHODS
CLUSTER ANALYSIS EVALUATIONEXERCISES; Chapter 13. Simplifying
Complex Spaces: The Role of Multivariate Analysis; MULTIVARIATE
ANALYSIS; EXERCISES; Chapter 14. Probabilistic Sampling in
Archaeology; CALCULATING CONFIDENCE INTERVALS AND SAMPLE
SIZES; ESTIMATING TOTALS; ESTIMATING A POPULATION PROPORTION;
SELECTING A SAMPLE; ALTERNATIVES TO SIMPLE RANDOM SAMPLING;
PROBABILISTIC SAMPLING OF POPULATIONS WITH A SPATIAL
DIMENSION; SAMPLING AND ARCHAEOLOGICAL AIMS: ALTERNATIVES
TO PARAMETER ESTIMATION; EXERCISES; Chapter 15. Conclusion;
FURTHER PROGRESS; RECENT DIRECTIONS AND FUTURE TRENDS
Appendix 1: Statistical Tables

Sommario/riassunto

This book introduces archaeologists to the most important quantitative methods, from the initial description of archaeological data to techniques of multivariate analysis. These are presented in the context of familiar problems in archaeological practice, an approach designed to illustrate their relevance and to overcome the fear of mathematics from which archaeologists often suffer.
