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| Autore | Shennan Stephen |
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| Nota di contenuto | Front Cover; Quantifying Archaeology; Copyright Page; Table of Contents; Preface; Chapter 1. Introduction; WHY QUANTITATIVE 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 APPROACH EXERCISES; 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 EVALUATION EXERCISES; 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.

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