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AND DESIGNS; 11 Quantitative Research Approaches; 12 Research Questions and Hypotheses; 13 Quasi-Experimental Designs; 14 Randomized Experimental Designs; 15 Single-Subject Designs; 16 General Design Classifications; IV. INTRODUCTION TO THE EVALUATION OF METHODS AND DESIGN; 17 Internal Validity; 18 Sampling and Population External Validity; 19 Evaluating the Validity of a Research Study: An Introduction; V. INTRODUCTION TO INFERENCE STATISTICS AND THEIR INTERPRETATION
 20 Introduction to Inferential Statistics and Hypothesis Testing
 Problems With Null Hypothesis Significance Testing (NHST); 22 Using Effect Sizes and Confidence Intervals to Interpret the Results of a Statistical Test; VI. SELECTION AND INTERPRETATION OF SPECIFIC STATISTICS; 23 Selection of Inferential Statistics: An Overview; 24 Single-Factor Between-Groups Designs: Analysis and Interpretation; 25 Single-Factor Repeated-Measures Designs: Analysis and Interpretation; 26 Basic Associational Designs: Analysis and Interpretation; 27 The Chi-Square Test and Accompanying Effect Size Indices
 28 Between-Groups Factorial Designs: Analysis and Interpretation
 29 Pretest-Posttest Comparison Group Designs: Analysis and Interpretation; 30 Use and Interpretation of Multiple Regression; 31 Logistic Regression and Discriminant Analysis: Use and Interpretation; 32 Selection and Use of Inferential Statistics: A Summary; 33 Interpretation of Alpha, Factor Analysis, and Principal Components Analysis; VII. APPLICATION CHAPTERS; 34 Levels of Evidence for Evidence-Based Practice; 35 Meta-Analysis: Formulation and Interpretation; 36 Effect Sizes and Clinical Significance
 VIII. EVALUATION OF RESEARCH VALIDITY
 37 Framework for a Comprehensive Evaluation of the Research Validity of a Study; 38 Evaluations of Four Sample Articles; Appendix A: Research Validity Evaluation Form; Appendix B: Completed Research Validity Evaluation Form; Appendix C: Comparative Numerical Evaluations of the Four Sample Studies; Appendix D: Confusing Terms; References; Author Index; Subject Index

Sommario/riassunto

Clinically oriented professionals and students need to understand and evaluate the research and statistics in professional articles, especially given today's emphasis on evidence-based practice. This book demonstrates how the research approach and design help determine the appropriate statistical analysis. Understanding and Evaluating Research in Applied and Clinical Settings features:
 • short, independent, chapters that do not have to be read in order;
 • a guide to understanding why a particular statistic was selected;
 • an emphasis on effect sizes including measures of risk po