



Experimental Designs Using ANOVA (with Student Suite CD-ROM) (Duxbury Applied Series)

By Barbara G. Tabachnick, Linda S. Fidell



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- Sales Rank: #1316011 in Books
- Brand: Brand: Cengage Learning
- Published on: 2006-03-08
- Original language: English
- Number of items: 1
- Dimensions: 9.26" h x 1.28" w x 7.60" l, 2.91 pounds
- Binding: Hardcover
- 720 pages

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Editorial Review

Review

1. INTRODUCTION. The Nature of Research. Types of Research Designs. Types of Treatments. Outcome Measures. Overview of Research Designs. Overview of Issues Encountered In Most Designs. Generalizing Results. Computer Assistance . Organization of the Book. Choosing a Design: Some Guidelines. Problem Sets. 2. ORGANIZING, DESCRIBING, AND SCREENING DATA. Organizing Data for a Computer. Describing Data from One Variable. Describing Relationships. Problem Sets. 3. BASIC ANOVA: LOGIC OF ANALYSIS AND TESTS OF ASSUMPTIONS. Introduction. Analysis of Variance. The Regression Approach to ANOVA. Assumptions of Analysis. Other Recurring Issues. Overview of Remaining Chapters. Problem Sets. 4. ONE-WAY RANDOMIZED-GROUPS ANALYSIS OF VARIANCE, FIXED-EFFECTS DESIGNS. General Purpose and Description. Kinds of Research Questions. Assumptions and Limitations. Fundamental Equations. Some Important Issues. Complete Example Of One-Way ANOVA. Comparison of Programs. Problem Sets. 5. FACTORIAL RANDOMIZED-GROUPS, FIXED EFFECTS DESIGNS. General Purpose and Description. Kinds of Research Questions. Assumptions and Limitations. Fundamental Equations. Other Types of Randomized-Groups Designs. Some Important Issues. Complete Example of Two-Way Randomized-Groups ANOVA. Comparison of Programs. Problem Sets. 6. REPEATED-MEASURES DESIGNS. General Purpose and Description. Kinds of Research Questions. Assumptions and Limitations. Fundamental Equations. Types of Repeated-Measures Designs. Some Important Issues. Complete Example. Problem Set. 7. MIXED RANDOMIZED-REPEATED DESIGNS. General Purpose and Description. Kinds of Research Questions. Assumptions and Limitations. Fundamental Equations. Types of Mixed Designs. Some Important Issues. Complete Example of Mixed Randomized-Repeated ANOVA. Comparison of Programs. Putting It All Together for Factorial Designs. Problem Sets. 8. ANALYSIS OF COVARIANCE. General Purpose and Description. Kinds of Research Questions. Assumptions and Limitations. Fundamental Equations. Types of Designs Using Covariates. Some Important Issues. Complete Examples of Analysis Of Covariance. Comparison of Programs. Problem Sets. 9. LATIN-SQUARE DESIGNS. Purpose and Description. Kinds of Research Questions. Assumptions and Limitations. Fundamental Equations. Types of Latin-Square Designs. Some Important Issues. Complete Examples of Latin-Square ANOVA. Comparison of Programs. Problem Sets. 10. SCREENING AND OTHER INCOMPLETE DESIGNS. General Purpose and Description. Kinds of Research Questions. Assumptions and Limitations. Fundamental Equations. Types of Screening and Other Incomplete Designs. Some Important Issues. Complete Example of a Central Composite Design. Comparisons of Programs. Problem Sets. 11. ANALYSIS OF VARIANCE WITH RANDOM EFFECTS. General Purpose and Description. Kinds of Research Questions. Assumptions and Limitations. Fundamental Equations. Types of Designs With Random Effects. Some Important Issues. Complete Example of Random-Effects ANOVA. Comparison of Programs. Problem Sets. Appendix A. Statistical Tables. Appendix B. Research Designs For Complete Examples. Appendix C. Answers to Selected Problems. References.

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