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Autore	Federer Walter Theodore <1915->
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Collana	Wiley series in probability and statistics
Altri autori (Persone)	KingFreedom <1955->
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Nota di contenuto	Variations on Split Plot and Split Block Experiment Designs; Contents; Preface; Chapter 1. The standard split plot experiment design; 1.1. Introduction; 1.2. Statistical design; 1.3. Examples of split-plot-designed experiments; 1.4. Analysis of variance; 1.5. F-tests; 1.6. Standard errors for means and differences between means; 1.7. Numerical examples; 1.8. Multiple comparisons of means; 1.9. One replicate of a split plot experiment design and missing observations; 1.10. Nature of experimental variation; 1.11. Repeated measures experiments; 1.12. Precision of contrasts; 1.13. Problems 1.14. ReferencesAppendix 1.1. Example 1.1 code; Appendix 1.2. Example 1.2 code; Chapter 2. Standard split block experiment design; 2.1. Introduction; 2.2. Examples; 2.3. Analysis of variance; 2.4. F-tests; 2.5. Standard errors for contrasts of effects; 2.6. Numerical examples; 2.7. Multiple comparisons; 2.8. One replicate of a split block design; 2.9. Precision; 2.10. Comments; 2.11. Problems; 2.12. References; Appendix 2.1. Example 2.1 code; Appendix 2.2. Example 2.2 code;

Appendix 2.3. Problems 2.1 and 2.2 data; Chapter 3. Variations of the split plot experiment design; 3.1. Introduction
3.2. Split split plot experiment design3.3. Split split split plot experiment design; 3.4. Whole plots not in a factorial arrangement; 3.5. Split plot treatments in an incomplete block experiment design within each whole plot; 3.6. Split plot treatments in a row-column arrangement within each whole plot treatment and in different whole plot treatments; 3.7. Whole plots in a systematic arrangement; 3.8. Split plots in a systematic arrangement; 3.9. Characters or responses as split plot treatments; 3.10. Observational or experimental error?
3.11. Time as a discrete factor rather than as a continuous factor3.12. Inappropriate model?; 3.13. Complete confounding of some effects and split plot experiment designs; 3.14. Comments; 3.15. Problems; 3.16. References; Appendix 3.1. Table 3.1 code and data; Chapter 4. Variations of the split block experiment design; 4.1. Introduction; 4.2. One set of treatments in a randomized complete block and the other in a Latin square experiment design; 4.3. Both sets of treatments in split block arrangements; 4.4. Split block split block or strip strip block experiment design
4.5. One set of treatments in an incomplete block design and the second set in a randomized complete block design4.6. An experiment design split blocked across the entire experiment; 4.7. Confounding in a factorial treatment design and in a split block experiment design; 4.8. Split block experiment design with a control; 4.9. Comments; 4.10. Problems; 4.11. References; Appendix 4.1. Example 4.1 code; Chapter 5. Combinations of SPEDs and SBEDs; 5.1. Introduction; 5.2. Factors A and B in a split block experiment design and factor C in a split plot arrangement to factors A and B
5.3. Factor A treatments are the whole plot treatments and factors B and C treatments are in a split block arrangement within each whole plot

Sommario/riassunto

A complete and up-to-date discussion of optimal split plot and split block designsVariations on Split Plot and Split Block Experiment Designs provides a comprehensive treatment of the design and analysis of two types of trials that are extremely popular in practice and play an integral part in the screening of applied experimental designs--split plot and split block experiments. Illustrated with numerous examples, this book presents a theoretical background and provides two and three error terms, a thorough review of the recent work in the area of split plot and split blocked experimen