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Autore	MÜLLER, Herta <1953- >
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2. Record Nr.	UNINA9911019489703321
Autore	Khuri Andre I. <1940->
Titolo	Statistical tests in mixed linear models / / Andre I. Khuri, Thomas Mathew, Bimal K. Sinha
Pubbl/distr/stampa	New York, : Wiley, c1998
ISBN	9786613273970 9781283273978 1283273977 9781118164860 1118164865 9781118164853 1118164857
Descrizione fisica	1 online resource (378 p.)
Collana	Wiley series in probability and statistics. Applied probability and statistics section
Altri autori (Persone)	MathewThomas <1955-> SinhaBimal K. <1946->
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Soggetti	Linear models (Statistics) Statistical hypothesis testing
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 335-343) and indexes.
Nota di contenuto	<p>Statistical Tests for Mixed Linear Models; Contents; Preface; 1. Nature of Exact and Optimum Tests in Mixed Linear Models; 1.1. Introduction; 1.2. Exact F-Tests; 1.3. Optimality of Tests; 1.3.1. Uniformly Most Powerful Similar and Uniformly Most Powerful Unbiased Tests; 1.3.2. Uniformly Most Powerful Invariant and Locally Most Powerful or Locally Best Invariant Tests; Appendix 1.1. Distribution of a Maximal Invariant <math>T(x)</math>: Wijsman's Representation Theorem; Bibliography; 2. Balanced Random and Mixed Models; 2.1. Introduction; 2.2. Balanced Models - Notations and Definitions</p> <p>2.3. Balanced Model Properties 2.4. Balanced Mixed Models: Distribution Theory; 2.5. Derivation of Optimum Tests; 2.5.1. A Numerical Example; 2.6. Approximate and Exact Tests; 2.6.1. Satterthwaite's Approximation; 2.6.2. Exact Unbiased Tests of Bartlett-Scheffe Type; Exercises; Bibliography; 3. Measures of Data Imbalance; 3.1. Introduction; 3.2. The Effects of Imbalance; 3.2.1. The Variance of 2; 3.2.2. The Probability of a Negative 2; 3.2.3. Power of the Test Concerning 2; 3.3. Measures of Imbalance for the One-Way Model; 3.3.1. The Effect of Imbalance on <math>Var(2)</math> 3.3.2. The Effect of Imbalance on the Test Concerning 2 3.4. A General Procedure For Measuring Imbalance; 3.4.1. The One-Way Classification Model; 3.4.2. The Two-Way Classification Model; 3.4.3. The Three-Way Classification Model; 3.5. Special Types of Imbalance; 3.5.1. The Two-Fold Nested Classification Model; 3.5.2. A Model With a Mixture of Cross-Classified and Nested Effects; 3.6. A General Method for Determining the Effect of Imbalance; 3.6.1. Generation of Designs Having a Specified Degree of Imbalance for the One-Way Model; 3.6.2. An Example; 3.7. Summary</p> <p>Appendix 3.1. Hirotsu's Approximation Exercises; Bibliography; 4. Unbalanced One-Way and Two-Way Random Models; 4.1. Introduction; 4.2. Unbalanced One-Way Random Models; 4.3. Two-Way Random Models; 4.3.1. Models Without Interaction: Exact Tests; 4.3.2. Models Without Interaction: Optimum Tests; 4.3.3. Models With Interaction: Exact Tests; 4.3.4. A Numerical Example; 4.4. Random Two-Fold Nested Models; 4.4.1. Testing <math>H_0 : 2_1 = 0</math>; 4.4.2. Testing <math>H_0 : 2_1 = 0</math>; Exercises; Bibliography; 5. Random Models with Unequal Cell Frequencies in the Last Stage; 5.1. Introduction</p> <p>5.2. Unbalanced Random Models With Imbalance In The Last Stage Only-Notation 5.3. Unbalanced Random Models With Imbalance In The Last Stage Only-Analysis; 5.3.1. Derivation of Exact Tests; 5.4. More on Exact Tests; 5.4.1. Power of the Exact Tests; 5.4.2. Sufficient Statistics Associated With the Exact Tests; 5.5. A Numerical Example; Exercises; Bibliography; 6. Tests in Unbalanced Mixed Models; 6.1. Introduction; 6.2. Mixed Models With Two Variance Components; 6.2.1. Test for <math>H_0 : 1_1 = \dots = 1_k = 0</math>; 6.2.2. Optimum Test for <math>H_0 : 2_1 = 0</math> 6.3. Mixed Two-Way Crossed-Classification Models With Interactions</p>
Sommario/riassunto	An advanced discussion of linear models with mixed or random effects. In recent years a breakthrough has occurred in our ability to draw inferences from exact and optimum tests of variance component models, generating much research activity that relies on linear models with mixed and random effects. This volume covers the most important research of the past decade as well as the latest developments in hypothesis testing. It compiles all currently available results in the area

of exact and optimum tests for variance component models and offers  
the only comprehensive treatment for these

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