Record Nr. UNINA9910139929603321 Autore Rayner J. C. W Titolo Smooth tests of goodness of fit [[electronic resource] /] / J.C.W. Rayner, O. Thas, D.J. Best Hoboken, NJ,: Wiley, c2009 Pubbl/distr/stampa **ISBN** 1-282-38215-2 9786612382154 0-470-82444-1 0-470-82443-3 Edizione [2nd ed.] Descrizione fisica 1 online resource (300 p.) Wiley series in probability and statistics Smooth tests of goodness of fit Collana using R BestD. J Altri autori (Persone) ThasO (Olivier) Disciplina 519.5/6 519.56 Soggetti Goodness-of-fit tests Statistical hypothesis testing Electronic books. Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto SMOOTH TESTS OF GOODNESS OF FIT USING R; Contents; Preface; 1 Introduction; 1.1 The Problem Defined; 1.2 A Brief History of Smooth Tests; 1.3 Monograph Outline; 1.4 Examples; 2 Pearson's X2 Test; 2.1 Introduction: 2.2 Foundations: 2.3 The Pearson X2 Test - an Update: 2.3.1 Notation, Definition of the Test, and Class Construction; 2.3.2 Power Related Properties; 2.3.3 The Sample Space Partition Approach; 2.4 X2 Tests of Composite Hypotheses; 2.5 Examples; 3 Asymptotically Optimal Tests; 3.1 Introduction; 3.2 The Likelihood Ratio, Wald, and Score Tests for a Simple Null Hypothesis 3.3 The Likelihood Ratio, Wald and Score Tests for Composite Null Hypotheses3.4 Generalized Score Tests; 4 Neyman Smooth Tests for Simple Null Hypotheses; 4.1 Neyman's 2 test; 4.2 Neyman Smooth Tests for Uncategorized Simple Null Hypotheses; 4.3 The Choice of

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9 Construction of Generalized Smooth Tests: Theoretical Contributions

Sommario/riassunto

In this fully revised and expanded edition of Smooth Tests of Goodness of Fit, the latest powerful techniques for assessing statistical and probabilistic models using this proven class of procedures are presented in a practical and easily accessible manner. Emphasis is placed on modern developments such as data-driven tests, diagnostic properties, and model selection techniques. Applicable to most statistical distributions, the methodology described in this book is optimal for deriving tests of fit for new distributions and complex probabilistic models, and is a standard against which n