1. Record Nr. UNINA9910829836903321 Autore Lee Sik-Yum Titolo Structural equation modeling [[electronic resource]]: a Bayesian approach / / Sik-Yum Lee Chichester, England; ; Hoboken, NJ, : Wiley, c2007 Pubbl/distr/stampa **ISBN** 1-280-83855-8 9786610838554 0-470-02473-9 0-470-02424-0 Descrizione fisica 1 online resource (459 p.) Collana Wiley series in probability and statistics Classificazione 31.73 Disciplina 519.53 519.535 Soggetti Structural equation modeling Bayesian statistical decision theory Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Structural Equation Modeling; Contents; About the Author; Preface; 1 Introduction; 1.1 Standard Structural Equation Models; 1.2 Covariance Structure Analysis; 1.3 Why a New Book?; 1.4 Objectives of the Book; 1.5 Data Sets and Notations; Appendix 1.1; References; 2 Some Basic Structural Equation Models; 2.1 Introduction; 2.2 Exploratory Factor Analysis; 2.3 Confirmatory and Higher-order Factor Analysis Models; 2.4 The LISREL Model; 2.5 The Bentler-Weeks Model; 2.6 Discussion; References: 3 Covariance Structure Analysis: 3.1 Introduction: 3.2 Definitions, Notations and Preliminary Results 3.3 GLS Analysis of Covariance Structure 3.4 ML Analysis of Covariance Structure; 3.5 Asymptotically Distribution-free Methods; 3.6 Some Iterative Procedures; Appendix 3.1: Matrix Calculus; Appendix 3.2: Some Basic Results in Probability Theory; Appendix 3.3: Proofs of Some Results; References; 4 Bayesian Estimation of Structural Equation Models: 4.1 Introduction: 4.2 Basic Principles and Concepts of Bayesian

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Appendix 9.1: Conditional Distributions: Two-level Nonlinear SEM

Sommario/riassunto

Winner of the 2008 Ziegel Prize for outstanding new book of the year Structural equation modeling (SEM) is a powerful multivariate method allowing the evaluation of a series of simultaneous hypotheses about the impacts of latent and manifest variables on other variables, taking measurement errors into account. As SEMs have grown in popularity in recent years, new models and statistical methods have been developed for more accurate analysis of more complex data. A Bayesian approach to SEMs allows the use of prior information resulting in improved parameter estimates, latent varia