Record Nr. UNINA9910821778903321 Autore Lee Sik-Yum Titolo Basic and advanced Bayesian structural equation modeling: with applications in the medical and behavioral sciences // Sik-Yum Lee and Xin-Yuan Song Hoboken,: Wiley, 2012 Pubbl/distr/stampa **ISBN** 1-118-35887-2 1-280-87995-5 9786613721266 1-118-35880-5 1-118-35888-0 1-118-35943-7 Edizione [1st ed.] Descrizione fisica 1 online resource (397 p.) Collana Wiley series in probability and statistics Classificazione MAT029000 Altri autori (Persone) SongXin-Yuan 519.5/3 Disciplina 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 Basic and Advanced Bayesian Structural Equation Modeling; Contents; About the authors: Preface: 1 Introduction: 1.1 Observed and latent variables; 1.2 Structural equation model; 1.3 Objectives of the book; 1.4 The Bayesian approach; 1.5 Real data sets and notation; Appendix 1.1: Information on real data sets; References; 2 Basic concepts and applications of structural equation models; 2.1 Introduction; 2.2 Linear SEMs; 2.2.1 Measurement equation; 2.2.2 Structural equation and one extension; 2.2.3 Assumptions of linear SEMs; 2.2.4 Model identification; 2.2.5 Path diagram 2.3 SEMs with fixed covariates 2.3.1 The model; 2.3.2 An artificial example; 2.4 Nonlinear SEMs; 2.4.1 Basic nonlinear SEMs; 2.4.2 Nonlinear SEMs with fixed covariates: 2.4.3 Remarks: 2.5 Discussion and conclusions; References; 3 Bayesian methods for estimating structural equation models; 3.1 Introduction; 3.2 Basic concepts of the

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## Sommario/riassunto

"This book introduces the Bayesian approach to SEMs, including the selection of prior distributions and data augmentation, and offers an overview of the subject's recent advances"--