
The book and accompanying website provide all of the data for the book’s examples as well as syntax from latent variable programs so readers can replicate the analyses. The book can be used with any of a variety of computer programs, but special attention is paid to LISREL and R. An important resource for advanced students and researchers in numerous disciplines in the behavioral sciences, education, business, and health sciences, Latent Variable Models is a practical and readable reference for those seeking to understand or conduct an analysis using latent variables. This revised and expanded fifth edition again contains key chapters on path analysis, structural equation models, and exploratory factor analysis. Chapter 1: Path Models in Factor, Path, and Structural Equation Analysis Path Diagrams Path Analysis Factor Models Structural Equations Original and Standardized Variables Manifest Versus Latent Variable Models Extended Example Notes Exercises. 1 2 7 16 23 24 28 28 31 33. Chapter 2: Fitting Path Models Iterative Solution of Path Equations Matrix Formulation of Path Models Full-Fledged Model-Fitting Programs Fit Functions 2 Hierarchical ffl Tests Descriptive Criteria of Model Fit The Power to Reject an Incorrect Model Identification Missing Data Correlations Versus Covariances in Model Fitting Statistische modellen, Latente variabelen, Latent structure analysis, Latent variables, Path analysis (Statistics), Factor analysis, Structural equation modeling. Publisher. Hillsdale, N.J. : Lawrence Erlbaum Associates. This book provides a basic introduction to structural equation modeling (SEM). We first review the concepts of correlation and covariance, then discuss multiple regression, path, and factor analyses to give a better understanding of the building blocks of SEM. We describe a basic structural equation model and then present several different types of structural equation models. Our approach is both conceptual and application oriented. We also include two new sets of materials that should help in teaching a course in SEM: an introduction to matrix notation and a CD. The introduction to matrix notation illustrates how matrix calculations are computed and is included in the Appendix as well as made available on the CD.