


Basics of Structural Equation Modeling


By Geoffrey M. Maruyama


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With the availability of software programs, such as LISREL, EQS, and AMOS, modeling (SEM) techniques have become a popular tool for formalized presentation of the hypothesized relationships underlying correlational research and test for the plausibility of hypothesizing for a particular data set. Through the use of careful narrative explanation, Maruyama's text describes the logic underlying SEM approaches, describes how SEM approaches relate to techniques like regression and factor analysis, analyzes the strengths and shortcomings of SEM as compared to alternative methodologies, and explores the various methodologies for analyzing structural equation data. In addition, Maruyama provides carefully constructed exercises both within and

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Basics of Structural Equation Modeling By Geoffrey M. Maruyama Bibliography

- Sales Rank: #1630116 in Books
- Brand: Brand: SAGE Publications, Inc
- Published on: 1997-09-22
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .82" w x 6.00" l, 1.16 pounds
- Binding: Paperback
- 328 pages

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Editorial Review

Review

"Overall, the book is a well-written introduction to structural equation modelling for people with a non-mathematical background. The stress is put on the logic of structural equation modelling and therefore it might be appreciated by more mathematical trained statisticians as well."

(Oliver Thas *The Statistician*)

"This book is a gentle introduction to the topic of structural equation modelling."

(Richard A. Chechile)

About the Author

My interest in what happens in diverse urban schools began when I became involved in a study of school desegregation while in graduate school. Those interests have led me to study a range of issues in schools, including school schedules and structures, teaching approaches such as cooperative learning and conflict resolution, social influence processes, and student background characteristics including poverty, type of housing, language, ability, and race/ethnicity. This work has been facilitated by time I spent in the Saint Paul Public Schools as their director of research, evaluation and assessment. Recently, my work has moved beyond schools to look more broadly at how universities engage urban communities to build partnerships addressing key social issues. I have complemented my substantive interests with methodology interests in structural equation methods and program evaluation. Finally, I have held administrative roles that have enriched and informed my research interests, including director of the Center for Applied Research and Educational Improvement (CAREI), assistant/associate vice president for multicultural and academic affairs, and now vice president for system academic administration . I am a past-president of the Society for the Psychological Study of Social Issues (SPSSI), and currently edit one of their journals, *Analyses of Social Issues and Public Policy*.

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