Many multivariate statistical techniques that previously appeared prohibitive to the applied researcher are now becoming increasingly accessible given the advances in user-friendly nature of the graphic interfaces associated with many software applications. Structural equation modeling (SEM) is one such technique that has seen exponential growth in its development and usage. However, up to less than a decade ago, most of the texts devoted to SEM were relatively complex, with a sound foundation in matrix algebra necessitated. However, there has been a spate of introductory texts that have inundated the marketplace recently, each with their own emphasis (e.g., type of software) and philosophy. The purpose of this article is to provide a comprehensive review of the various introductory texts, some of which are software specific and some that are more general. Also, for those who have gained more than cursory familiarity with SEM, a brief review of more advanced text is provided.

Many researchers know that with the advent of user-friendly software even the most complex statistical analysis is made accessible. Whereas many neophytes find the syntax and programming code associated with many of the popular statistical packages (e.g., SPSS, SAS, and so on) to be overwhelming, window-based, point-and-click packages have ameliorated many of those user concerns. Even though a grasp of the syntax or code of any package is still necessary to maximize the full capacity of the statistical package, it is unequivocal that complex analysis is now much more accessible to the casual user. An example of such is SEM.

In a nutshell, SEM is a statistical methodology that takes a confirmatory (i.e., hypothesis-testing) approach to the multivariate analysis of a structural theory bearing on some phenomenon” (Byrne, 1998). Thus, its roots germinate from the schools of factor analysis, regression analysis, and path analysis (see Bollen, 1989, and Kaplan, 2000, for a brief historical treatment of the development of SEM). A technique that up to a decade ago was still relatively arcane to many researchers has now flourished in its use and applicability in a wide array of fields and disciplines (Hayduk, 1996). Concomitant with this growth in the use of SEM, in addition to software development, has been the influx of introductory texts. As pointed out in prior SEM text reviews (Gleser, 2000, 2001, 2002), up until 1995 there was a paucity of SEM texts that were readily accessible to the fledgling SEM user. Many of us used Bollen’s (1989) and Hayduk’s (1987) as our primary reference points, and they still stand as seminal readings in this domain. However, as texts for the newly applied user, or as part of a multivariate graduate course those books may initially be a bit imposing. To capitalize on this gap, there has been a spate of introductory texts in the last 7 years, each with their own emphasis and idiosyncrasies. Thus, this review serves to point the reader to an introductory text that may best suit his or her needs. Even though toward the end of this review I offer some references that are more advanced, or specialized, in nature, the assumption is that the reader will be newly exposed to this exciting and rapidly developing analytical domain. Moreover, the reviews are primarily overviews; hence, more detailed (and critical) reviews can be found in the journal solely devoted to SEM: Structural Equation Modeling: A Multidisciplinary Journal. For ease of referencing, each section starts off with the titles to be reviewed.
The Classics


Even though there are texts that well predate the emerging popularity of SEM (e.g., Duncan, 1975), two texts were the primary references for introducing SEM, that is, those by Bollen (1989) and Hayduk (1987). Both of these texts still pass the litmus test in regard to their continued relevance and range of subject matter. The treatment of pertinent issues such as model identification and estimation in Bollen’s text is virtually without peer, whereas Hayduk’s text, though more oriented to LISREL users, has an impressive grasp on models that are of much current interest, such as mean structures and multivariate modeling. However, unless the reader has some facility with matrix algebra and is relatively comfortable with intermediate statistics, the texts may be a formidable read. Thus, even though these texts are frequently cited in others’ research endeavors, they may not be the best recommendation for the SEM neophyte. However, it is my opinion that, once the researcher has mastered the introductory rudiments of SEM, both of those texts are worthy collections. It is also recommended that as an extension of Hayduk’s 1987 text, the interested reader peruse Hayduk’s 1996 text titled LISREL: Issues, Debates, and Strategies, a follow-up companion piece that addresses such issues as model equivalency, loops, stacked models, and modeling strategy.

Introductory Texts: Non-Software Specific


The texts reviewed in this section, though providing examples of software code (e.g., LISREL, EQS), are not wholly devoted, nor inclined, to the use of a particular type of software. One of the forerunners was John C. Loehlin’s Latent Variable Models: An Introduction to Factor, Path and Structural Analysis. Now in its third edition (1998); the first edition was published in 1987 and the second edition in 1992, this text was unique in its characterization of path models and active use of path diagrams. Thus, for the graphically inclined (i.e., those who can follow the flowcharts and the attendant notation), Loehlin appears most accessible. However, for some readers, this same approach may seem off-putting. There are only seven chapters in the text, thus, if one is a graduate student, it may be beneficial to segment the chapters accordingly.

At the time of writing, the various manacles that capture the mathematics into SEM were based on LISREL (with its attendant eight matrices); however, Loehlin uses the more economical McArdle-McDonald equation, which is essentially reduced to three matrices. Many examples of uses of SEM in the literature are summarized in this text, with the various fit measures and indices reviewed. One other facet of this book that is most appealing is the Notes section appended at the end of each chapter. Not only are references provided, but this section also serves as a glossary of sorts, defining various terms and techniques. This text basically covers variations on path and structural models and includes two full chapters on exploratory factor analysis (EFA) and a final chapter with assorted odd and ends (e.g., multivariate path models, nonlinear modeling, and so on). Thus, if the reader’s already versed in EFA, the amount of attention paid to this topic may seem its bit disproportionate. However, given the seminal importance of EFA as a latent variable technique, and the parallels that can be drawn between EFA and SEM, the reader may have much to gain by these two chapters.

Schumacher and Lomax’s 1996 text A Beginner’s Guide to Structural Equation Modeling was the first text in the marketplace devoted to SEM that was indeed aptly titled for the neophyte. It is simple in its prose, clearly written, and very much a nontechnical treatment for a relatively complex mathematical endeavor. Because it is truly aimed at an introductory audience, certain subjects are treated in an all too tene fashion (e.g., missing data, statistical assumptions); thus, this book serves as a springboard for more advanced texts that are more comprehensive in the coverage of these various topics. This text relies on two software packages for the bulk of examples: LISREL and EQS. Just prior to the text, LISREL syntax was relatively formulae, requiring a fundamental understanding of the various manacles (e.g., $\theta$, $\Phi$). However, an accompanying language was created for this program called SIMPLS, which in line of code such as “Free: LX \text{(1.2)}” could be replaced with the actual names of the variables: “JobSat = JobPer.” Thus, both of these languages are covered in the examples that are also literally provided in this text. Interestingly, and what shows the development of SEM in the years since, some of the topics covered in the “advanced” chapters, such as multitempling SEM, are fairly routine nowadays. Menz-
over, quite a few new fit indexes have come up since the publication of this text; thus an updated edition is definitely warranted. I have used this text as part of a multivariate class, of which I had approximately 4 weeks devoted to SEM. I found this text to be easily consumed within that relatively constrained time period. As mentioned earlier, though I opine that certain key topics are given too economical of a treatment, overall the introductory reader will find much to gain by this text.

Rex Kline’s 1998 text Principles and Practice of Structural Equation Modeling is one of the few texts that are truly agnostic in its presentation of SEM, that is, not based on any specific software application. In fact, in his introductory chapter, Kline assures the reader that advanced quantitative skills will not be needed for this text, even though a background in elementary statistics (e.g., correlation) will be fruitful. An equilibrant approach is employed in the notation and just does not favor any one particular software (e.g., Greek subscripts for LISREL). A very rudimentary treatment of statistics is covered in the chapter titled “Basic Statistical Concepts,” including correlation, regression parameters, and so on. As reviewed in a more detailed summary (Olsson, 2000), the reader will especially find much to gain from the chapter on “Data Preparation and Screening,” which includes sections on missing data, data screening, multivariate normality, and other requisite assumptions. The reader is already versed in assumptions associated with regression and multivariate analysis, this will serve as a pity review.

There is a substantive treatment on path analysis and, what I thought, initially, a too-prolonged treatment on nonrecursive models (i.e., \( y \rightarrow x \) and \( x \rightarrow y \)). My initial reaction was that given the known problems of model identification with nonrecursive paths (nonrecursive models are those that include paths in which, in the simplest case, two variables are both cause and effect on each other), there is a paucity of these models tested in the scientific literature. However, on a second perusal of this text, issues that are brought up in this chapter, such as order and rank conditions, identification, and so on, are not unique only to nonrecursive models.

Chapter 9 ("How to Fool Yourself With SEM") provides for the introductory student a much-reluctant-on-the-checklist of pitfalls, cautions, and so and so-in-this. This set of guidelines is demarcated by four major topics: specification (e.g., fail to have sufficient numbers of indicators of latent variables, add disturbance, or measurement error correlations without substantive reason), data (e.g., fail to examine distributions characteristics, assume that all relations are linear without checking), analysis and specification (e.g., respect a model based entirely on statistical criteria, estimate a very complex model with a small sample), and interpretation (e.g., interpret good fit as meaning that the model is proved, fail to consider nonexistent alternative models). This is a brief not worthwhile chapter for the introductory student, though Kline provides many modeling guidelines throughout the text, as with many principles in statistics, there are also many shades of gray in the assessment and testing of model fit. Overall, the text is sufficiently comprehensive in that it could serve as the primary text for a semester course, and, at the same time, if the introductory reader is part of a multivariate course, the judicial instructor could select excerpts that provide a suitable foundation. Furthermore, even without the benefit of an academic environment, the book is written clearly enough that the interested reader can readily absorb the material on his or her own initiative.

Another text that is not software-specific is Basics of Structural Equation Modeling (1998) by Geoffrey M. Maruyama. For a more in-depth review of this text, see Boomsma (2000b). As a summation, I agree with Boomsma’s synopsis that this text would be of limited utility if the reader already has had some exposure to SEM. However, as a starting point, keeping in mind that this text is devoid of the technical issues that are the heart and soul of SEM, this book may suffice. The title of the leading chapter “What Does It Mean to Model Hypothesized Causal Processes With Non-experimental Data?” is intriguing, but as modelers are aware of, ascribing causation, even with the most sophisticated statistical techniques, is problematic. A nice historical review of the precursors to SEM is offered with a very generous rendering of path analysis following.

Where this book deviates from many of the other SEM texts is the coverage of collectivity and random/nonrandom error, each afforded as individual chapter. Though this text intentionally minimizes the statistical details of SEM, I am also not convinced that the attention allocated to subjects such as ridge regression (which is used to stabilize the regression solution when predictors are highly related, generally by adding a constant), are wholly necessary. After a relatively lengthy treatment of recursive and longitudinal models and factor analysis, latent variable SEM is brought to the fore in chapter 8. It is in this chapter that the reader is introduced to the LISREL notation and the accompanying matrices, though without the algebraic derivatives. The author differentiates the measurement model (i.e., relation of manifest indicators with latent constructs) from the structural model (i.e., relation of the exogenous and endogenous constructs), although it might benefit the reader to accept a special issue of Structural Equation Modeling: A Multidisciplinary Journal, (2000, volume 7, issue 1) that primarily focuses on the multistage process of model testing and assessment.

Real-life examples of various models comprise the next chapter titled "Using Latent Variables SEM to Examine Planfulness of Models," including a longitudinal
model with multiple indicators. The reader may find this chapter helpful not only in its detailed orientation toward application, but also in the appendix that provides the syntax for LISREL, AMOS, and EQS for model testing. The next chapter of the intro section details which, can prove to be a rather formidable task for the fledgling user, given that there are well over 30 indexes at this point in the SEM environment. The different clusters of fit indexes are compared (absolute vs. relative vs. adjusted) and interpreted.

The final chapters cover variations of the basic latent variable model and then a final summation of various points that may be germane to the modeling process but were not covered in this text (e.g., types of estimators, non-continuous variables, nonlinear models). There is no reason to recommend for Maruyama's (1997) text, though various subjects are given short (non-conventional models, type of estimator) that do yield some import in the modeling enterprise, whereas others are given more attention than warranted in an introductory text (e.g., collinearity).

Raykov and Marcoulides 'A First Course in Structural Equation Modeling' (2000), which is extensively reviewed in Gualter (2001), is probably one of the briefest and more concise of the SEM introductory texts. Even though each of the chapters provides examples of LISREL and EQS syntax and output (which, according to the authors, are the more widely circulated software), the text still covers topics in sufficient generality to be applicable to any software user or introductory reader. Some of the more technical details (e.g., the non-normative reliance on the all-y model) may perplex some of the fledgling readers, but for the most part the text is aimed at the reader desiring a concise and relatively noneotechnical primer. Generous examples of path analysis, confirmatory factor analysis, and structural models are provided. However, even though some of the sections are a bit terse, and some nonexistent (e.g., nonrecursive models), some readers may view as excessive the fact that one fourth of the length of the text is devoted to latent change analysis. Even though this type of analysis is becoming increasingly more popular (this is briefly touched on in the Special Topics section), the authors could probably have devoted a final chapter to special trends and topics and included latent change analysis as an ancillary topic. As I commented in my more detailed review, the most likely usage of this text would be within the context of a multivariate course, where 2 to 3 weeks are dedicated to SEM. The relative brevity of this book would render it appropriate for such a course.

Introductory Texts: Software Specific

Byrne, B. (1994). Structural equation modeling with LISREL, PRELIS, and SIMPLIS. 576

Byrne, B. (1998). Structural equation modeling with LISREL, PRELIS, and SIMPLIS. 576

Byrne, B. (2001). Structural equation modeling with AMOS. 576


Barbara Byrne has furnished texts on the three leading software programs (EQS [1994], LISREL [1998], and AMOS [2001]) that literally take the researcher, step by step, through the model-testing process. The texts do seem to reflect the development of the software environment, insofar as the first text emphasizes the use of syntax (i.e., program code unique to EQS) in model testing, with a cursory treatment of the Windows environment in the final three chapters. Conversely, the most recent text covering AMOS illustrates the dramatic progress made in testing models in a graphical Windows environment. In addition, the texts mirror the extensive research (and Monte Carlo studies) that has gone into examining the myriad of fit indexes that have rapidly multiplied in the last 15 years.

All of the texts follow essentially the same format. Rudimentary aspects of SEM are briefly reviewed, with a more focused discussion on the mathematical model that is unique to each software (e.g., Bentler-Weeks model for EQS, LISREL model by Sörbom, & Stenbom). The following chapter then specifically zeroes in on the software itself. Readers will notice a more concentrated emphasis on the syntax for EQS and LISREL, whereas though AMOS has a programming interface (i.e., AMOS Basic), the primary overview is associated with AMOS graphics (which many modellers find extremely user friendly). Both EQS and LISREL texts have a similar structure for the section titled Single-Group Analyses, with the chapters detailing first- and second-order confirmatory factor models, testing for construct validity (i.e., multi-trait-multimethod model) and a chapter titled "Testing the Validity of a Casual Structure." The AMOS text slightly deviates with the omission of the construct validity chapter. Chapter 3 ("Testing for the Factorial Validity of a Theoretical Construct"), in each of the texts, provides a very accessible overview of how to assess model fit. Whereas older versions of LISREL consisted of just a handful of indexes to examine model fit (e.g., Goodness-of-Fit Index, Adjusted Goodness-of-Fit Index, 27), there are probably more than 30 indexes to select from in current versions of the SEM software packages. Hence, given what may seem to be a bewildering choice of fit indexes for the fledgling SEM researcher, readers may find Boomsma (2000b) and Huynh and Bentler (1995) to be most helpful references in determining (and reporting) model fit. Byrne alio
cates a relatively brief, but sufficiently comprehensive, treatment of the different types and classes of indices (e.g., absolute fit indices, incremental fit indices, infestation-theoretic indices, and so on) that are unique to each program (though there is tremendous overlap).

The following section in each of the texts covers multi-
ti-plot group analyses. Whereas multiple group analyses may be seen as the initial stage of SEM, it is now a frequently used analysis, especially when testing the invariance of factorial structures across groups. This holds tremendous application to the re-
searcher interested in assessing the inva-
rance of an assessment tool across populations of interest (e.g., does the factorial structure of a child depression in-
ventory remain consistent across boys and girls?). The chapter on regression latent mean structures further indi-
cates the level of complexity the researcher can pursue in model testing. For a comprehensive summary of the develop-
ments in the invariance domain, the reader is en-
couraged to peruse Vandenberg and Lance (2000).

Each of the texts finishes off with topics that, though germane to any SEM user, have specific applicability to the software at hand. For instance, the AMOS text has chapters on bootstrapping and dealing with incom-
plete data. There have been tremendous strides made in the employment of missing data techniques, and AMOS was one of the first SEM applications that used maximum likelihood approaches to missing data (though the most recent version of LISREL (8.50) ne-
xores a likelihood approach to missing data). For a nice primer on maximum likelihood approaches to missing data, see Enders (2001). Overall, the Byrne texts are very accessible and serve as excellent supple-
ments to the manual provided with each of the soft-
ware. However, readers will notice that certain topics are omitted, such as latent change analysis and nonpro-
cective modeling, thus they will need to refer to Little (1998) or Beyov and Marcoulides (2000) for a more accelerat-
ted treatment of those topical areas.

Two other brief texts solely devoted to LISREL that the reader may be interested in are Introducing LISREL (Diamantopoulos & Sigauw, 2000) and Using LISREL for Structural Equation Modeling (Kelloway, 1998). Whereas Diamantopoulos and Sigauw focus on the more accessible SIMPLIS language, Kelloway's text models fit via the more complex LISREL language, which uses Greek notation liberally. Even though these two texts provide a preliminary introduction to LISREL, they may be supplanted by the initial stages of learn-
ing SEM, they are relatively underemphasized compared to the other texts.

More Advanced Texts and Special Topics


The burgeoning interest, and use, of SEM is made manifest not just by the spate of introductory texts but also issues of journals and test devised to more ad-
vanced topics in SEM. Two earlier edited texts by Hoyle (1995) and Bollen and Long (1993) covered top-
ics as wide ranging as nonnormality, statistical power, categorical variables, and evaluating model fit. How-
ever, though they deal with topics in more detail than the introductory texts, they are relatively non-technical and thus readily accessible to users who have absorbed the rudimentary concepts of SEM. Even though there have been major strides in many of the domains cov-
ered in these texts since the date of publication, many SEM authors still reference them. However, as a more advanced companion piece, the reader may want to refer to the two edited texts by Marcoulides and Schumacker: Advanced Structural Equation Model-
ing: Issues and Techniques (1996) and New Develop-
ments and Techniques in Structural Equation Mod-
eling (2001). Topics ranging from structural time series, multilevel models, mixture modeling, and spec-
ification searches are reviewed, with the mathematical details not particularly overwhelming.

Interestingly, what were advanced topics in 1996 are now so sufficiently accessible that entire books are devoted to them, such as, for example, the domain of hierarchical linear modeling (see Bryk & Raudenbush, 1992) multilevel modeling has been incorporated in SEM packages. For recent examples, see Moskowitz and Hershcberger (2002). Moreover, longitudinal modeling has seen...
such an epiphany of interest (probably based in part on the software access) that an entire text has covered SEM approaches to latent variable growth curve modeling (Duncan, Dunson, Stryker, & Alpert, 1999). There are also two excellent texts from the American Psychological Association that cover, in more advanced detail, analysis of change (Collins & Horn, 1991; Collins & Sayer, 2001), though not exclusively employing SEM techniques.

What may have seemed intractable more than a decade ago is now virtually absorbed in the mainstream, as illustrated by a text that focuses exclusively on interaction and nonlinear SEM (Schmader & Mar- couillies, 1998). Kaplan (2000) also authored an excellent introductory text on SEM that takes an econometric perspective (see Glasser, 2002, for a detailed review). However, this book is more akin to Bollen’s 1989 text and thus may be arduous reading for the neophyte modeler.

With some optimism that SEM literally subsumes the widest swathe of statistical models (i.e., the broadest general linear model), the developments and progress that are made in this area almost seem limitless. As I was writing this review, I was furnished a new text to review edited by MacCallum and Moustaki titled Latent Variable and Latent Structure Models (2002), which again indicates the stunning strides made in this field and includes chapters on multilevel factor analysis, modeling measurement error, semiparametric models, and confidence regions in SEM models.

References

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Each book of the Bible has, in addition to its exposition, an introduction, outline, and bibliography. Notes on textual questions and special problems are correlated with the expository units; transliteration and translation of Semitic and Greek words make the more technical notes accessible to readers unacquainted with the biblical languages. This superb commentary in the Pillar series explores the meaning and relevance of Matthew in an eminently straightforward fashion.