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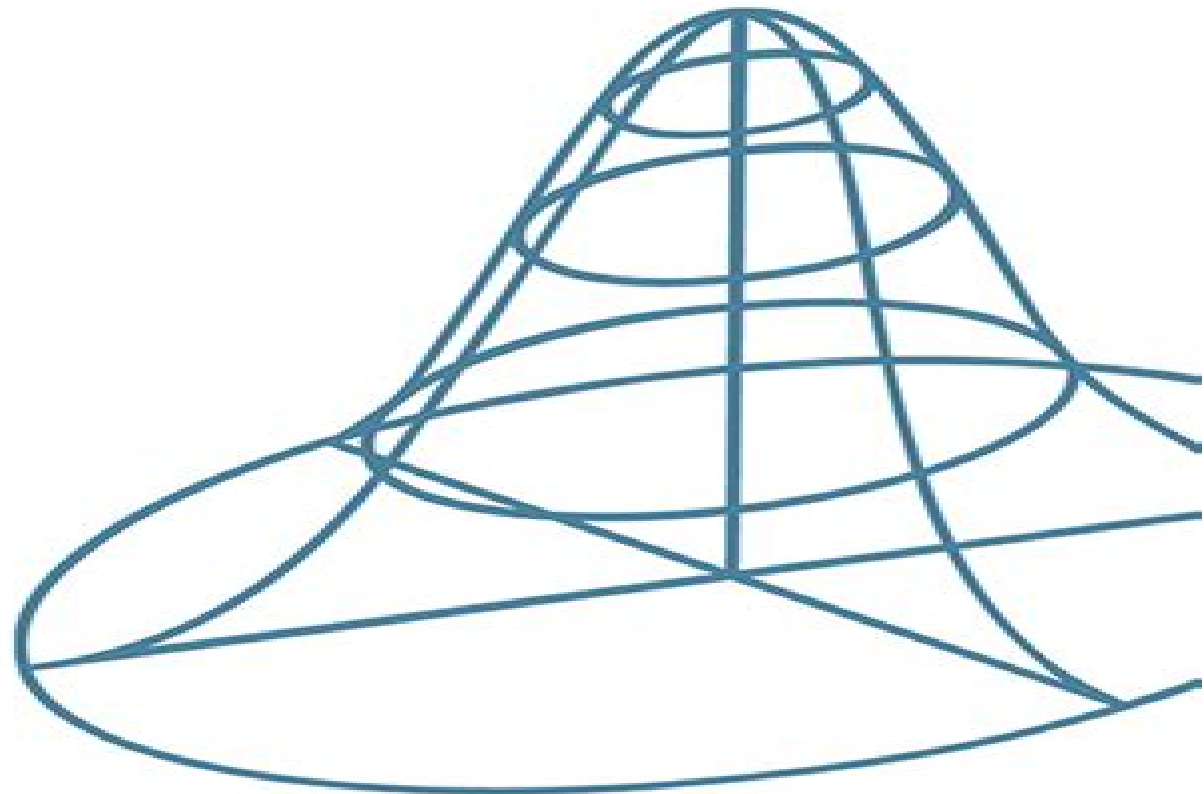
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Nonlinear Structural Equation Models

Phillip Isaac Pfleger

Nonlinear Structural Equation Models:

  Nonlinear Structural Equation Models Casey L. Codd,2011 Abstract Structural equation modeling is a popular statistical method in the social and behavioral sciences but it has largely been restricted to modeling linear relationships among latent variables This can be attributed to the fact that traditional estimation methods for SEM are based on linear relationships among the manifest and latent variables and are not appropriate for nonlinear models This thesis will illustrate how marginal maximum likelihood can be used to estimate a general nonlinear structural equation model and how this method can be implemented in SAS Proc NLMIXED Attention will also be given to the issue of model selection in nonlinear structural equation modeling An example using psychological data will be presented to illustrate the utility of this method

  Interaction and Nonlinear Effects in Structural Equation Modeling Randall E. Schumacker,George A. Marcoulides,2017-07-05 This volume provides a comprehensive presentation of the various procedures currently available for testing interaction and nonlinear effects in structural equation modeling By focusing on various software applications the reader should quickly be able to incorporate one of the procedures into testing interaction or nonlinear effects in their own model Although every attempt is made to keep mathematical details to a minimum it is assumed that the reader has mastered the equivalent of a graduate level multivariate statistics course which includes adequate coverage of structural equation modeling This book will be of interest to researchers and practitioners in education and the social sciences   **Handbook of Latent Variable and Related Models** ,2011-08-11 This Handbook covers latent variable models which are a flexible class of models for modeling multivariate data to explore relationships among observed and latent variables Covers a wide class of important models Models and statistical methods described provide tools for analyzing a wide spectrum of complicated data Includes illustrative examples with real data sets from business education medicine public health and sociology Demonstrates the use of a wide variety of statistical computational and mathematical techniques   **Exploring Fit for Nonlinear Structural Equation Models** Phillip Isaac Pfleger,2019 This thesis shows that an effective strategy for determining whether a nonlinear model is preferable to a linear one involves using the R squared to compare models that have been fit to the same data An R squared that is much larger for the nonlinear model than the linear model suggests that the linear model may be less desirable than the nonlinear model   *Assessing Local Influence for Nonlinear Structural Equation Models with Ignorable Missing Data* Sik-Yum Lee,2018 A method is proposed in this paper to assess the local influence of minor perturbation for a nonlinear structural equation model with missing data that are missing at random The main idea is to apply Zhu and Lee s 2001 approach to the conditional expectation of the complete data log likelihood function in the corresponding EM algorithm for deriving the conformai normal curvature Building blocks for achieving the diagnostic measures are computed via latent variables that are generated by the Gibbs sampler and Metropolis Hastings algorithm It is shown that the proposed methodology is feasible for a wide variety of perturbation schemes To illustrate the methodology

results that are obtained from analysis of an artificial example and a real example are presented **Structural Equation Modeling** Sik-Yum Lee,2007-04-04 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 variable estimates and statistics for model comparison as well as offering more reliable results for smaller samples Structural Equation Modeling 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 Demonstrates how to utilize powerful statistical computing tools including the Gibbs sampler the Metropolis Hasting algorithm bridge sampling and path sampling to obtain the Bayesian results Discusses the Bayes factor and Deviance Information Criterion DIC for model comparison Includes coverage of complex models including SEMs with ordered categorical variables and dichotomous variables nonlinear SEMs two level SEMs multisample SEMs mixtures of SEMs SEMs with missing data SEMs with variables from an exponential family of distributions and some of their combinations Illustrates the methodology through simulation studies and examples with real data from business management education psychology public health and sociology Demonstrates the application of the freely available software WinBUGS via a supplementary website featuring computer code and data sets Structural Equation Modeling A Bayesian Approach is a multi disciplinary text ideal for researchers and students in many areas including statistics biostatistics business education medicine psychology public health and social science **Handbook of Structural Equation Modeling** Rick H. Hoyle,2023-02-17 This accessible volume presents both the mechanics of structural equation modeling SEM and specific SEM strategies and applications The editor along with an international group of contributors and editorial advisory board are leading methodologists who have organized the book to move from simpler material to more statistically complex modeling approaches Sections cover the foundations of SEM statistical underpinnings from assumptions to model modifications steps in implementation from data preparation through writing the SEM report and basic and advanced applications including new and emerging topics in SEM Each chapter provides conceptually oriented descriptions fully explicated analyses and engaging examples that reveal modeling possibilities for use with readers data Many of the chapters also include access to data and syntax files at the companion website allowing readers to try their hands at reproducing the authors results Non-linear Structural Equation Models Fan Yang Jonsson,1997 **Nonlinear Structural Equation Modeling with the Theory of Planned Behavior** Jost Reinecke,2001 **Basic and Advanced Bayesian Structural Equation Modeling** Sik-Yum Lee,Xin-Yuan Song,2012-07-05 This book provides clear instructions to researchers on how to apply Structural Equation Models SEMs for analyzing the inter relationships between observed and

latent variables Basic and Advanced Bayesian Structural Equation Modeling introduces basic and advanced SEMs for analyzing various kinds of complex data such as ordered and unordered categorical data multilevel data mixture data longitudinal data highly non normal data as well as some of their combinations In addition Bayesian semiparametric SEMs to capture the true distribution of explanatory latent variables are introduced whilst SEM with a nonparametric structural equation to assess unspecified functional relationships among latent variables are also explored Statistical methodologies are developed using the Bayesian approach giving reliable results for small samples and allowing the use of prior information leading to better statistical results Estimates of the parameters and model comparison statistics are obtained via powerful Markov Chain Monte Carlo methods in statistical computing Introduces the Bayesian approach to SEMs including discussion on the selection of prior distributions and data augmentation Demonstrates how to utilize the recent powerful tools in statistical computing including but not limited to the Gibbs sampler the Metropolis Hasting algorithm and path sampling for producing various statistical results such as Bayesian estimates and Bayesian model comparison statistics in the analysis of basic and advanced SEMs Discusses the Bayes factor Deviance Information Criterion DIC and L_ν measure for Bayesian model comparison Introduces a number of important generalizations of SEMs including multilevel and mixture SEMs latent curve models and longitudinal SEMs semiparametric SEMs and those with various types of discrete data and nonparametric structural equations Illustrates how to use the freely available software WinBUGS to produce the results Provides numerous real examples for illustrating the theoretical concepts and computational procedures that are presented throughout the book Researchers and advanced level students in statistics biostatistics public health business education psychology and social science will benefit from this book   *Structural Equation Modeling* Gregory R. Hancock,Ralph O. Mueller,2013-03-01 Sponsored by the American Educational Research Association s Special Interest Group for Educational Statisticians This volume is the second edition of Hancock and Mueller s highly successful 2006 volume with all of the original chapters updated as well as four new chapters The second edition like the first is intended to serve as a didactically oriented resource for graduate students and research professionals covering a broad range of advanced topics often not discussed in introductory courses on structural equation modeling SEM Such topics are important in furthering the understanding of foundations and assumptions underlying SEM as well as in exploring SEM as a potential tool to address new types of research questions that might not have arisen during a first course Chapters focus on the clear explanation and application of topics rather than on analytical derivations and contain materials from popular SEM software   The SAGE Handbook of Quantitative Methods in Psychology Roger E Millsap,Alberto Maydeu-Olivares,2009-08-05 I often wonder to myself whether the field needs another book handbook or encyclopedia on this topic In this case I think that the answer is truly yes The handbook is well focused on important issues in the field and the chapters are written by recognized authorities in their fields The book should appeal to anyone who wants an understanding of important topics that frequently go uncovered in graduate

education in psychology David C Howell Professor Emeritus University of Vermont Quantitative psychology is arguably one of the oldest disciplines within the field of psychology and nearly all psychologists are exposed to quantitative psychology in some form While textbooks in statistics research methods and psychological measurement exist none offer a unified treatment of quantitative psychology The SAGE Handbook of Quantitative Methods in Psychology does just that Each chapter covers a methodological topic with equal attention paid to established theory and the challenges facing methodologists as they address new research questions using that particular methodology The reader will come away from each chapter with a greater understanding of the methodology being addressed as well as an understanding of the directions for future developments within that methodological area Drawing on a global scholarship the Handbook is divided into seven parts Part One Design and Inference addresses issues in the inference of causal relations from experimental and non experimental research along with the design of true experiments and quasi experiments and the problem of missing data due to various influences such as attrition or non compliance Part Two Measurement Theory begins with a chapter on classical test theory followed by the common factor analysis model as a model for psychological measurement The models for continuous latent variables in item response theory are covered next followed by a chapter on discrete latent variable models as represented in latent class analysis Part Three Scaling Methods covers metric and non metric scaling methods as developed in multidimensional scaling followed by consideration of the scaling of discrete measures as found in dual scaling and correspondence analysis Models for preference data such as those found in random utility theory are covered next Part Four Data Analysis includes chapters on regression models categorical data analysis multilevel or hierarchical models resampling methods robust data analysis meta analysis Bayesian data analysis and cluster analysis Part Five Structural Equation Models addresses topics in general structural equation modeling nonlinear structural equation models mixture models and multilevel structural equation models Part Six Longitudinal Models covers the analysis of longitudinal data via mixed modeling time series analysis and event history analysis Part Seven Specialized Models covers specific topics including the analysis of neuro imaging data and functional data analysis **An Introduction to Latent Variable Growth Curve Modeling** Terry E. Duncan,Susan C. Duncan,Lisa A. Strycker,2013-05-13 This book provides a comprehensive introduction to latent variable growth curve modeling LGM for analyzing repeated measures It presents the statistical basis for LGM and its various methodological extensions including a number of practical examples of its use It is designed to take advantage of the reader s familiarity with analysis of variance and structural equation modeling SEM in introducing LGM techniques Sample data syntax input and output are provided for EQS Amos LISREL and Mplus on the book s CD Throughout the book the authors present a variety of LGM techniques that are useful for many different research designs and numerous figures provide helpful diagrams of the examples Updated throughout the second edition features three new chapters growth modeling with ordered categorical variables growth mixture modeling and pooled interrupted time series LGM approaches Following a new

organization the book now covers the development of the LGM followed by chapters on multiple group issues analyzing growth in multiple populations accelerated designs and multi level longitudinal approaches and then special topics such as missing data models LGM power and Monte Carlo estimation and latent growth interaction models The model specifications previously included in the appendices are now available on the CD so the reader can more easily adapt the models to their own research This practical guide is ideal for a wide range of social and behavioral researchers interested in the measurement of change over time including social developmental organizational educational consumer personality and clinical psychologists sociologists and quantitative methodologists as well as for a text on latent variable growth curve modeling or as a supplement for a course on multivariate statistics A prerequisite of graduate level statistics is recommended

   Applied Bayesian Modelling Peter Congdon,2014-06-25 This book provides an accessible approach to Bayesian computing and data analysis with an emphasis on the interpretation of real data sets Following in the tradition of the successful first edition this book aims to make a wide range of statistical modeling applications accessible using tested code that can be readily adapted to the reader s own applications The second edition has been thoroughly reworked and updated to take account of advances in the field A new set of worked examples is included The novel aspect of the first edition was the coverage of statistical modeling using WinBUGS and OPENBUGS This feature continues in the new edition along with examples using R to broaden appeal and for completeness of coverage **Factor Analysis at 100** Robert Cudeck,Robert C. MacCallum,2007-03-06 This book provides a retrospective look at major developments as well as a prospective view of future directions in factor analysis In so doing it demonstrates how and why factor analysis is considered to be one of the methodological pillars of behavioral research Featuring an outstanding collection of contributors this volume offers unique insights on factor analysis and its related methods The book reviews some of the extensions of factor analysis to such techniques as latent growth curve models models for categorical data and structural equation models Intended for graduate students and researchers in the behavioral social health and biological sciences who use this technique in their research a basic knowledge of factor analysis is required and a working knowledge of linear algebra is helpful <u>Modeling Contextual Effects in Longitudinal Studies</u> Todd D. Little,James A. Bovaird,Noel A. Card,2007-03-21 This volume reviews the challenges and alternative approaches to modeling how individuals change across time and provides methodologies and data analytic strategies for behavioral and social science researchers This accessible guide provides concrete clear examples of how contextual factors can be included in most research studies Each chapter can be understood independently allowing readers to first focus on areas most relevant to their work The opening chapter demonstrates the various ways contextual factors are represented as covariates predictors outcomes moderators mediators or mediated effects Succeeding chapters review best practice techniques for treating missing data making model comparisons and scaling across developmental age ranges Other chapters focus on specific statistical techniques such as multilevel modeling and multiple group and multilevel SEM and how

to incorporate tests of mediation moderation and moderated mediation Critical measurement and theoretical issues are discussed particularly how age can be represented and the ways in which context can be conceptualized The final chapter provides a compelling call to include contextual factors in theorizing and research This book will appeal to researchers and advanced students conducting developmental social clinical or educational research as well as those in related areas such as psychology and linguistics **Likelihood Based Procedures for General Nonlinear Structural Equation Analysis** Yan Zhao,2002 Valid Statistical inferences in nonlinear structural equation models are of great interest recently This dissertation aims at fitting a nonlinear structural equation model consisting of two parts a general nonlinear measurement model relating observed variables or indicators to unobserved concepts or latent variables and a nonlinear simultaneous structural model describing relationships among the latent variables For model identification we assume an explicitly solved reduced structural model exists This dissertation is composed of two papers The first paper deals with the case where the latent variables in the reduced structural model are normally distributed We developed maximum likelihood estimation by a Monte Carlo EM algorithm The asymptotic covariance matrix of the estimator is computed by the inverse of the empirical observed information matrix Initial values of the parameters for general and special reduced structural models are presented For a Monte Carlo EM algorithm we developed a new procedure both to choose the Monte Carlo sample size for computing the expectation in the E step and to stop the algorithm Simulation studies for structural equation models with a variety of structural models are presented to assess the performance of our stopping rule and the estimators The second paper develops distribution free statistical procedures without specifying distribution forms of the latent variables We use the normal mixtures as a flexible distribution family A pseudo maximum likelihood estimation procedure is introduced by first obtaining the measurement model parameters by factor analysis then maximizing the pseudo likelihood the likelihood evaluated at the measurement model parameters estimates with respect to the structural equation model parameters The asymptotic covariance matrix of the measurement parameters estimates is computed by non parametric bootstrap which is combined with the empirical information matrix of all parameters for the full likelihood to produce an estimate of the asymptotic covariance of the reduced model parameters estimates Simulation studies are presented **Handbook of Educational Psychology** Lyn Corno,Eric M. Anderman,2015-07-06 The third edition of the Handbook of Educational Psychology is sponsored by Division 15 of the American Psychological Association In this volume thirty chapters address new developments in theory and research methods while honoring the legacy of the field s past A diverse group of recognized scholars within and outside the U S provide integrative reviews and critical syntheses of developments in the substantive areas of psychological inquiry in education functional processes for learning learner readiness and development building knowledge and subject matter expertise and the learning and task environment New chapters in this edition cover topics such as learning sciences research latent variable models data analytics neuropsychology relations between emotion

motivation and volition EMOVO scientific literacy sociocultural perspectives on learning dialogic instruction and networked learning Expanded treatment has been given to relevant individual differences underlying processes and new research on subject matter acquisition The Handbook of Educational Psychology Third Edition provides an indispensable reference volume for scholars in education and the learning sciences broadly conceived as well as for teacher educators practicing teachers policy makers and the academic libraries serving these audiences It is also appropriate for graduate level courses in educational psychology human learning and motivation the learning sciences and psychological research methods in education and psychology   Advanced Issues in Partial Least Squares Structural Equation Modeling Joseph F. Hair, Jr.,Marko Sarstedt,Christian M. Ringle,Siegfried P. Gudergan,2017-04-05 Written as an extension of A Primer on Partial Least Squares Structural Equation Modeling PLS SEM Second Edition this easy to understand practical guide covers advanced content on PLS SEM to help students and researchers apply techniques to research problems and accurately interpret results Authors Joseph F Hair Jr Marko Sarstedt Christian Ringle and Siegfried P Gudergan provide a brief overview of basic concepts before moving to the more advanced material Offering extensive examples on SmartPLS 3 software and accompanied by free downloadable data sets the book emphasizes that any advanced PLS SEM approach should be carefully applied to ensure that it fits the appropriate research context and the data characteristics that underpin the research

    Partial Least Squares Path Modeling Hengky Latan,Richard Noonan,2017-11-03 This edited book presents the recent developments in partial least squares path modeling PLS PM and provides a comprehensive overview of the current state of the most advanced research related to PLS PM The first section of this book emphasizes the basic concepts and extensions of the PLS PM method The second section discusses the methodological issues that are the focus of the recent development of the PLS PM method The third part discusses the real world application of the PLS PM method in various disciplines The contributions from expert authors in the field of PLS focus on topics such as the factor based PLS PM the perfect match between a model and a mode quantile composite based path modeling QC PM ordinal consistent partial least squares OrdPLSc non symmetrical composite based path modeling NSCPM modern view for mediation analysis in PLS PM a multi method approach for identifying and treating unobserved heterogeneity multigroup analysis PLS MGA the assessment of the common method bias non metric PLS with categorical indicators evaluation of the efficiency and accuracy of model misspecification and bootstrap parameter recovery in PLS PM CB SEM and the Bollen Stine methods and importance performance map analysis IPMA for nonlinear relationships This book will be useful for researchers and practitioners interested in the latest advances in PLS PM as well as master and Ph D students in a variety of disciplines using the PLS PM method for their projects

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