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SUSAN E. EMBRETSON STEVEN P. REISE

# <u>Item Response Theory For Psychologists Multivariate</u> <u>Applications Series</u>

Wim J. van der Linden

# **Item Response Theory For Psychologists Multivariate Applications Series:**

Item Response Theory for Psychologists Susan E. Embretson, Steven P. Reise, 2013-09-05 This book develops an intuitive understanding of IRT principles through the use of graphical displays and analogies to familiar psychological principles It surveys contemporary IRT models estimation methods and computer programs Polytomous IRT models are given central coverage since many psychological tests use rating scales Ideal for clinical industrial counseling educational and behavioral medicine professionals and students familiar with classical testing principles exposure to material covered in first year graduate statistics courses is helpful All symbols and equations are thoroughly explained verbally and graphically

Item Response Theory for Psychologists Susan E. Embretson, Steven Paul Reise, 2000 Item Response Theory IRT is increasingly the psychometric method used for contemporary psychological tests The goal of this book is to explain IRT The book is especially useful to psychologists and social scientists familiar with small scale cognitive and personality measures of those who want to use IRT to analyze scales used in their own research It is also useful for graduate students and practitioners who want to understand the contemporary psychometric foundations of the tests they administer Familiar psychological concepts are used to help explain various IRT principles The book develops an intuitive understanding of IRT principles through its use of graphical displays and analysis of psychological principles Jacket Psychologists Susan E. Embretson, Steven P. Reise, 2013-09-05 This book develops an intuitive understanding of IRT principles through the use of graphical displays and analogies to familiar psychological principles It surveys contemporary IRT models estimation methods and computer programs Polytomous IRT models are given central coverage since many psychological tests use rating scales Ideal for clinical industrial counseling educational and behavioral medicine professionals and students familiar with classical testing principles exposure to material covered in first year graduate statistics courses is helpful All symbols and equations are thoroughly explained verbally and graphically **Item Response Theory** Susan E. Embretson, Steven P. Reise, 2011 This book provides an intuitive and accessible introduction to item response theory IRT making complex psychometric concepts easier to grasp through graphical displays and familiar analogies It bridges theory and application helping readers interpret and implement IRT models effectively to improve measurement quality in psychology and the social sciences Covering both foundational and advanced topics it offers a clear path for understanding contemporary IRT methods and their relevance in research and practice With a strong focus on applications the book explains contemporary IRT models and estimation methods placing special emphasis on polytomous IRT models which are widely used in psychological assessments and rating scales Applications in various research areas are explored in detail alongside a dedicated chapter on available software to support implementation The final section delves into advanced IRT topics including multidimensional models and explanatory approaches for hypothesis testing making it a valuable resource for those looking to deepen their understanding of psychometric analysis An essential for graduate students researchers and

practitioners in psychology education and the social sciences the book is useful for researchers who are implementing or developing person assessments as well as for professionals in clinical industrial counselling and behavioural medicine fields who need a strong grasp of contemporary psychometric foundations Professors teaching measurement courses will find it an ideal core textbook offering a structured and engaging introduction to IRT and its applications in test development and Handbook of Item Response Theory Modeling Steven P. Reise, Dennis A. Revicki, 2014-11-20 Item response theory IRT has moved beyond the confines of educational measurement into assessment domains such as personality psychopathology and patient reported outcomes Classic and emerging IRT methods and applications that are revolutionizing psychological measurement particularly for health assessments used to demonstrate treatment effectiveness are reviewed in this new volume World renowned contributors present the latest research and methodologies about these models along with their applications and related challenges Examples using real data some from NIH PROMIS show how to apply these models in actual research situations Chapters review fundamental issues of IRT modern estimation methods testing assumptions evaluating fit item banking scoring in multidimensional models and advanced IRT methods New multidimensional models are provided along with suggestions for deciding among the family of IRT models available Each chapter provides an introduction describes state of the art research methods demonstrates an application and provides a summary The book addresses the most critical IRT conceptual and statistical issues confronting researchers and advanced students in psychology education and medicine today Although the chapters highlight health outcomes data the issues addressed are relevant to any content domain The book addresses IRT models applied to non educational data especially patient reported outcomes Differences between cognitive and non cognitive constructs and the challenges these bring to modeling The application of multidimensional IRT models designed to capture typical performance data Cutting edge methods for deriving a single latent dimension from multidimensional data A new model designed for the measurement of constructs that are defined on one end of a continuum such as substance abuse Scoring individuals under different multidimensional IRT models and item banking for patient reported health outcomes How to evaluate measurement invariance diagnose problems with response categories and assess growth and change Part 1 reviews fundamental topics such as assumption testing parameter estimation and the assessment of model and person fit New emerging and classic IRT models including modeling multidimensional data and the use of new IRT models in typical performance measurement contexts are examined in Part 2 Part 3 reviews the major applications of IRT models such as scoring item banking for patient reported health outcomes evaluating measurement invariance linking scales to a common metric and measuring growth and change The book concludes with a look at future IRT applications in health outcomes measurement The book summarizes the latest advances and critiques foundational topics such a multidimensionality assessment of fit handling non normality as well as applied topics such as differential item functioning and multidimensional linking Intended for researchers advanced students and

practitioners in psychology education and medicine interested in applying IRT methods this book also serves as a text in advanced graduate courses on IRT or measurement Familiarity with factor analysis latent variables IRT and basic The Oxford Handbook of Psychological Situations John F. Rauthmann, Ryne measurement theory is assumed Sherman, David C. Funder, 2020-07-01 Situations matter They let people express their personalities and values provoke motivations emotions and behaviors and are the contexts in which people reason and act The psychological assessment of situations is a new and rapidly developing area of research particularly within the fields of personality and social psychology This volume compiles state of the art knowledge on psychological situations in chapters written by experts in their respective research areas Bringing together historical reviews theoretical pieces methodological descriptions and empirical applications this volume is the definitive go to source for a psychology of situations Multivariate Applications in Substance Use Research Jennifer S. Rose, Laurie Chassin, Clark C. Presson, Steven J. Sherman, 2000-01-01 This edited volume introduces the latest advances in quantitative methods and illustrates ways to apply these methods to important questions in substance use research The goal is to provide a forum for dialogue between methodologists developing innovative multivariate statistical methods and substance use researchers who have produced rich data sets Reflecting current research trends the book examines the use of longitudinal techniques to measure processes of change over time Researchers faced with the task of studying the causes course treatment and prevention of substance use and abuse will find this volume helpful for applying these techniques to make optimal use of their data This innovative volume introduces the use of latent curve methods for describing individual trajectories of adolescent substance use over time explores methods for analyzing longitudinal data for individuals nested within groups such as families classrooms and treatment groups demonstrates how different patterns of missing data influence the interpretation of results reports on some recent advances in longitudinal growth modeling illustrates methods to assess mediation when there are multiple mediating pathways underlying an intervention effect describes methods to identify moderating relations in structural equation models demonstrates the use of structural equation models to evaluate a preventive intervention applies epidemic modeling techniques to understand the spread of substance use in society illustrates the use of latent transition analysis to model substance use as a series of stages and applies logistic regression to prospectively predict smoking cessation **Modeling and Measuring Competencies in Higher Education** Sigrid Blömeke, Olga Zlatkin-Troitschanskaia, Christiane Kuhn, Judith Fege, 2013-04-20 Measuring competencies acquired over the course of higher education is an area of research that largely has been neglected This deficit can be attributed to the complexity of academic competencies since the variety of institutions programs occupational fields and job requirements render it difficult to define and even harder to measure outcomes Thus assessing the preconditions for and effects of competency development is a challenge methodologically In this book a comprehensive review of the international state of research on modeling and measuring competencies in higher education across several academic disciplines is presented

along with an evaluation of the field's strengths and weaknesses Renowned experts share insight into the most important recent research projects and point out controversies and challenges Competencies are regarded as context specific dispositions acquired and required to cope successfully with domain specific situations and tasks However the range of these dispositions is controversial Should only cognitive facets be included or is it important to consider attitudes as well Insufficient response rates and panel attrition are further challenges as are the limitations of paper and pencil approaches to the complex measurement of higher education outcomes Thus this book may serve as a platform for the exchange of research experiences and perspectives and hopefully will instigate improvements in research into higher education **Modeling** Steven P. Reise, Naihua Duan, 2003-01-30 This book appeals to researchers who work with nested data structures or repeated measures data including biomed health researchers clinical intervention researchers and developmental educational psychologists Also some potential as a grad lvl tex What If There Were No Significance Tests? Lisa L. Harlow, Stanley A. Mulaik, James H. Steiger, 2016-03-02 The classic edition of What If There Were No Significance Tests highlights current statistical inference practices Four areas are featured as essential for making inferences sound judgment meaningful research questions relevant design and assessing fit in multiple ways Other options data visualization replication or meta analysis other features mediation moderation multiple levels or classes and other approaches Bayesian analysis simulation data mining qualitative inquiry are also suggested The Classic Edition's new Introduction demonstrates the ongoing relevance of the topic and the charge to move away from an exclusive focus on NHST along with new methods to help make significance testing more accessible to a wider body of researchers to improve our ability to make more accurate statistical inferences Part 1 presents an overview of significance testing issues The next part discusses the debate in which significance testing should be rejected or retained The third part outlines various methods that may supplement significance testing procedures Part 4 discusses Bayesian approaches and methods and the use of confidence intervals versus significance tests The book concludes with philosophy of science perspectives Rather than providing definitive prescriptions the chapters are largely suggestive of general issues concerns and application guidelines. The editors allow readers to choose the best way to conduct hypothesis testing in their respective fields For anyone doing research in the social sciences this book is bound to become must reading Ideal for use as a supplement for graduate courses in statistics or quantitative analysis taught in psychology education business nursing medicine and the social sciences the book also benefits independent researchers in the behavioral and social sciences and those who teach statistics Applied Statistics: From Bivariate Through Multivariate Techniques Rebecca M. Warner, 2013 Rebecca M Warner's Applied Statistics From Bivariate Through Multivariate Techniques Second Edition provides a clear introduction to widely used topics in bivariate and multivariate statistics including multiple regression discriminant analysis MANOVA factor analysis and binary logistic regression. The approach is applied and does not require formal mathematics equations are accompanied by verbal explanations Students are asked to

think about the meaning of equations Each chapter presents a complete empirical research example to illustrate the application of a specific method Although SPSS examples are used throughout the book the conceptual material will be helpful for users of different programs Each chapter has a glossary and comprehension questions **New Perspectives on** Faking in Personality Assessment Carolyn MacCann, Richard Roberts, 2012 Contributors consider what it means to fake a personality assessment why and how people try to obtain particular scores on personality tests and what types of tests people can successfully manipulate The authors present and discuss the usefulness of a range of traditional and cutting edge methods for detecting and controlling the practice of faking **Introduction to Statistical Mediation Analysis** David P. MacKinnon, 2012-10-02 This volume introduces the statistical methodological and conceptual aspects of mediation analysis Applications from health social and developmental psychology sociology communication exercise science and epidemiology are emphasized throughout Single mediator multilevel and longitudinal models are reviewed. The author's goal is to help the reader apply mediation analysis to their own data and understand its limitations Each chapter features an overview numerous worked examples a summary and exercises with answers to the odd numbered questions. The accompanying CD contains outputs described in the book from SAS SPSS LISREL EQS MPLUS and CALIS and a program to simulate the model The notation used is consistent with existing literature on mediation in psychology The book opens with a review of the types of research questions the mediation model addresses Part II describes the estimation of mediation effects including assumptions statistical tests and the construction of confidence limits Advanced models including mediation in path analysis longitudinal models multilevel data categorical variables and mediation in the context of moderation are then described The book closes with a discussion of the limits of mediation analysis additional approaches to identifying mediating variables and future directions Introduction to Statistical Mediation Analysis is intended for researchers and advanced students in health social clinical and developmental psychology as well as communication public health nursing epidemiology and sociology Some exposure to a graduate level research methods or statistics course is assumed The overview of mediation analysis and the guidelines for conducting a mediation analysis will be appreciated by all readers Structural Equation Modeling With EQS Barbara M. Byrne, 2013-04-15 Readers who want a less mathematical alternative to the EQS manual will find exactly what they re looking for in this practical text Written specifically for those with little to no knowledge of structural equation modeling SEM or EQS the author's goal is to provide a non mathematical introduction to the basic concepts of SEM by applying these principles to EQS Version 6.1 The book clearly demonstrates a wide variety of SEM EQS applications that include confirmatory factor analytic and full latent variable models Written in a user friendly style the author walks the reader through the varied steps involved in the process of testing SEM models model specification and estimation assessment of model fit EQS output and interpretation of findings Each of the book's applications is accompanied by a statement of the hypothesis being tested a schematic representation of the model explanations of the EQS input and output

files tips on how to use the pull down menus and the data file upon which the application is based The book carefully works through applications starting with relatively simple single group analyses through to more advanced applications such as a multi group latent growth curve and multilevel modeling The new edition features many new applications that include a latent growth curve model a multilevel model a second order model based on categorical data a missing data multigroup model based on the EM algorithm and the testing for latent mean differences related to a higher order model downloadable resources includes all application data vignettes illustrating procedural and or data management tasks and description of how to build models both interactively using the BUILD EQ interface and graphically using the EQS Diagrammer

Artificial Intelligence in Education Chee-Kit Looi,2005 The field of Artificial Intelligence in Education includes research and researchers from many areas of technology and social science This study aims to open opportunities for the cross fertilization of information and ideas from researchers in the many fields that make up this interdisciplinary research area

Achieving Teaching Quality in Sub-Saharan Africa Sarah Lange, 2016-06-22 Sarah Lange examines the effectiveness of cascade training which constitutes a cost effective training model in teacher training In development cooperation countries teaching quality is expected to improve with teacher professional development for this purpose she explores the effectiveness of training multipliers in schools in Cameroon This research question is analysed with a design which encompasses a questionnaire survey provided to teachers students and principals as well as a teacher video survey and a student achievement test The empirical results show the effects of cascade training on the learner oriented teaching practice if the trained teachers are supported in their role as change agents Among the conditions for the conceptual quality and the implementation of cascade training the continuity of school based professional development is particularly emphasized in light of the results Intelligent Tutoring Systems Beverly Woolf, Esma Aimeur, Roger Nkambou, Susanne Lajoie, 2008-07-08 This book constitutes the refereed proceedings of the 9th International Conference on Intelligent Tutoring Systems ITS 2008 held in Montreal Canada in June 2008 The 63 revised full papers and 61 poster papers presented together with abstracts of 5 keynote talks were carefully reviewed and selected from 207 submissions. The papers are organized in topical sections on emotion and affect tutor evaluation student modeling machine learning authoring tools tutor feedback and intervention data mining e learning and Web based ITS natural language techniques and dialogue narrative tutors and games **Higher-Order Growth Curves and Mixture Modeling** semantic Web and ontology cognitive models and collaboration with Mplus Kandauda Wickrama, Tae Kyoung Lee, Catherine Walker O'Neal, Frederick Lorenz, 2021-11-23 This practical introduction to second order and growth mixture models using Mplus introduces simple and complex techniques through incremental steps The authors extend latent growth curves to second order growth curve and mixture models and then combine the two using normal and non normal eg categorical data To maximize understanding each model is presented with basic structural equations figures with associated syntax that highlight what the statistics mean Mplus applications and an

interpretation of results Examples from a variety of disciplines demonstrate the use of the models and exercises allow readers to test their understanding of the techniques A comprehensive introduction to confirmatory factor analysis latent growth curve modeling and growth mixture modeling is provided so the book can be used by readers of various skill levels The book s datasets are available on the web New to this edition Two new chapters providing a stepwise introduction and practical guide to the application of second order growth curves and mixture models with categorical outcomes using the Mplus program Complete with exercises answer keys and downloadable data files Updated illustrative examples using Mplus 8 0 include conceptual figures Mplus program syntax and an interpretation of results to show readers how to carry out the analyses with actual data This text is ideal for use in graduate courses or workshops on advanced structural equation multilevel longitudinal or latent variable modeling latent growth curve and mixture modeling factor analysis multivariate statistics or advanced quantitative techniques methods across the social and behavioral sciences The Essence of Multivariate Thinking Lisa L. Harlow, 2014-02-18 By focusing on underlying themes this book helps readers better understand the connections between multivariate methods For each method the author highlights the similarities and differences between the methods when they are used and the questions they address the key assumptions and equations and how to interpret the results The concepts take center stage while formulas are kept to a minimum Examples using the same data set give readers continuity so they can more easily apply the concepts Each method is also accompanied by a worked out example SPSS and SAS input and an example of how to write up the results EOS code is used for the book s SEM applications This extensively revised edition features New SEM chapters including an introduction ch 10 path analysis ch 11 confirmatory factor analysis ch 12 and latent variable modeling ch 13 the last three with an EQS application A new chapter on multilevel modeling ch 8 that is now used more frequently in the social sciences More emphasis on significance tests effect sizes and confidence intervals to encourage readers to adopt a thorough approach to assessing the magnitude of their findings A new data set that explores the work environment More discussion about the basic assumptions and equations for each method for a more accessible approach New examples that help clarify the distinctions between methods A new website at https sites google com site multivariatesecondedition that features the datasets for all of the examples in the book for use in both SPSS and SAS and in EQS for the SEM chapters The first two chapters review the core themes that run through most multivariate methods The author shows how understanding multivariate methods is much more achievable when we notice the themes that underlie these statistical techniques This multiple level approach also provides greater reliability and validity in our research After providing insight into the core themes the author illustrates them as they apply to the most popular multivariate methods used in the social and behavioral sciences First two intermediate methods are explored multiple regression and analysis of covariance Next the multivariate grouping variable methods of multivariate analysis of variance discriminant function analysis and logistic regression are explored Next the themes are applied to multivariate modeling

methods including multilevel modeling path analysis confirmatory factor analysis and latent variable models that include exploratory structural methods of principal component and factor analysis The book concludes with a summary of the common themes and how they pertain to each method discussed in this book Intended for advanced undergraduate and or graduate courses in multivariate statistics taught in psychology education human development business nursing and other social and life sciences researchers also appreciate this book s applied approach Knowledge of basic statistics research methods basic algebra and finite mathematics is recommended Handbook of Item Response Theory Wim J. van der Linden, 2018-02-19 Drawing on the work of 75 internationally acclaimed experts in the field Handbook of Item Response Theory Three Volume Set presents all major item response models classical and modern statistical tools used in item response theory IRT and major areas of applications of IRT in educational and psychological testing medical diagnosis of patient reported outcomes and marketing research It also covers CRAN packages WinBUGS Bilog MG Multilog Parscale IRTPRO Mplus GLLAMM Latent Gold and numerous other software tools A full update of editor Wim I van der Linden and Ronald K Hambleton's classic Handbook of Modern Item Response Theory this handbook has been expanded from 28 chapters to 85 chapters in three volumes The three volumes are thoroughly edited and cross referenced with uniform notation format and pedagogical principles across all chapters Each chapter is self contained and deals with the latest developments in IRT

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