

Item Response Theory - Fundamental Assumptions

- Unidimensionality - items measure a homogenous, single domain
- Local independence - covariance among items is determined only by the latent dimension measured by the item set

Fundamentals Of Item Response Theory

Wim J. van der Linden



Fundamentals Of Item Response Theory:

Fundamentals of Item Response Theory Ronald K. Hambleton, Hariharan Swaminathan, H. Jane Rogers, 1991 By using familiar concepts from classical measurement methods and basic statistics this book introduces the basics of item response theory IRT and explains the application of IRT methods to problems in test construction identification of potentially biased test items test equating and computerized adaptive testing The book also includes a thorough discussion of alternative procedures for estimating IRT parameters and concludes with an exploration of new directions in IRT research and development

Fundamentals of Item Response Theory Ronald K. Hambleton, 1991-07-23 By using familiar concepts from classical measurement methods and basic statistics this book introduces the basics of item response theory IRT and explains the application of IRT methods to problems in test construction identification of potentially biased test items test equating and computerized adaptive testing The book also includes a thorough discussion of alternative procedures for estimating IRT parameters and concludes with an exploration of new directions in IRT research and development

The Basics of Item Response Theory Frank B. Baker, 1985

The Theory and Practice of Item Response Theory R. J. de Ayala, 2013-10-15 Item response theory IRT is a latent variable modeling approach used to minimize bias and optimize the measurement power of educational and psychological tests and other psychometric applications Designed for researchers psychometric professionals and advanced students this book clearly presents both the how to and the why of IRT It describes simple and more complex IRT models and shows how they are applied with the help of widely available software packages Chapters follow a consistent format and build sequentially taking the reader from model development through the fit analysis and interpretation phases that one would perform in practice The use of common empirical data sets across the chapters facilitates understanding of the various models and how they relate to one another

Item Response Theory Christine DeMars, 2010-04-30 This volume guides its reader through the basics of Item Response Theory with an emphasis on what and how to include relevant information in the methods and results sections of professional papers The author offers examples of good and bad write ups

Handbook of Modern Item Response Theory Wim J. van der Linden, Ronald K.

Hambleton, 1996-11-15 Item response theory has become an essential component in the toolkit of every researcher in the behavioral sciences It provides a powerful means to study individual responses to a variety of stimuli and the methodology has been extended and developed to cover many different models of interaction This volume presents a wide ranging handbook to item response theory and its applications to educational and psychological testing It will serve as both an introduction to the subject and also as a comprehensive reference volume for practitioners and researchers It is organized into six major sections the nominal categories model models for response time or multiple attempts on items models for multiple abilities or cognitive components nonparametric models models for nonmonotone items and models with special assumptions Each chapter in the book has been written by an expert of that particular topic and the chapters have been

carefully edited to ensure that a uniform style of notation and presentation is used throughout As a result all researchers whose work uses item response theory will find this an indispensable companion to their work and it will be the subject's reference volume for many years to come

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 J 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

Handbook of Item Response Theory, Volume Two Wim J. van der Linden, 2016-02-22 Drawing on the work of internationally acclaimed experts in the field Handbook of Item Response Theory Volume Two Statistical Tools presents classical and modern statistical tools used in item response theory IRT While IRT heavily depends on the use of statistical tools for handling its models and applications systematic introductions and reviews that emphasize their relevance to IRT are hardly found in the statistical literature This second volume in a three volume set fills this void Volume Two covers common probability distributions the issue of models with both intentional and nuisance parameters the use of information criteria methods for dealing with missing data and model identification issues It also addresses recent developments in parameter estimation and model fit and comparison such as Bayesian approaches specifically Markov chain Monte Carlo MCMC methods

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

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 measurement theory is assumed Handbook of Polytomous Item Response Theory Models Michael Nering, Remo Ostini, 2011-01-19 This comprehensive Handbook focuses on the most used polytomous item response theory IRT models These models help us understand the interaction between examinees and test questions where the questions have various response categories The book reviews all of the major models and includes discussions about how and where the models originated conceptually and in practical terms Diverse perspectives on how these models can best be evaluated are also provided Practical applications provide a realistic account of the issues practitioners face using these models Disparate elements of the book are linked through editorial sidebars that connect common ideas across chapters compare and reconcile differences in terminology and explain variations in

mathematical notation These sidebars help to demonstrate the commonalities that exist across the field By assembling this critical information the editors hope to inspire others to use polytomous IRT models in their own research so they too can achieve the type of improved measurement that such models can provide Part 1 examines the most commonly used polytomous IRT models major issues that cut across these models and a common notation for calculating functions for each model An introduction to IRT software is also provided Part 2 features distinct approaches to evaluating the effectiveness of polytomous IRT models in various measurement contexts These chapters appraise evaluation procedures and fit tests and demonstrate how to implement these procedures using IRT software The final section features groundbreaking applications Here the goal is to provide solutions to technical problems to allow for the most effective use of these models in measuring educational psychological and social science abilities and traits This section also addresses the major issues encountered when using polytomous IRT models in computerized adaptive testing Equating test scores across different testing contexts is the focus of the last chapter The various contexts include personality research motor performance health and quality of life indicators attitudes and educational achievement Featuring contributions from the leading authorities this handbook will appeal to measurement researchers practitioners and students who want to apply polytomous IRT models to their own research It will be of particular interest to education and psychology assessment specialists who develop and use tests and measures in their work especially researchers in clinical educational personality social and health psychology This book also serves as a supplementary text in graduate courses on educational measurement psychometrics or item response theory

Introduction to Nonparametric Item Response Theory Klaas Sijtsma,Ivo W. Molenaar,2002-03-12 This book introduces social and behavioral science students and researchers to the theory and practice of the highly powerful methods of nonparametric item response theory IRT Anyone who uses or constructs tests or questionnaires for measuring abilities achievements personality traits attitudes or opinions will find nonparametric IRT useful for designing and improving such measurements The authors show how the broadness of the nonparametric item response models allows them to fit many data sets and remain powerful enough for implying useful measurement properties such as the ordering of persons using the simple total score number correct for dichotomous item tests and sum of rating scale score for polytomous item tests and the ordering of the items using the item means *Handbook of Research Methods in Personality Psychology* Richard W. Robins,R. Chris Fraley,Robert F. Krueger,2009-12-09 Bringing together leading investigators this comprehensive handbook is a one stop reference for anyone planning or conducting research on personality It provides up to date analyses of the rich array of methodological tools available today giving particular attention to real world theoretical and logistical challenges and how to overcome them In chapters filled with detailed practical examples readers are shown step by step how to formulate a suitable research design select and use high quality measures and manage the complexities of data analysis and interpretation Coverage ranges from classic methods like self report inventories and observational procedures to such recent

innovations as neuroimaging and genetic analyses 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 Handbook on Measurement, Assessment, and Evaluation in Higher Education Charles Secolsky, D. Brian Denison, 2017-07-31 In this valuable resource well known scholars present a detailed understanding of contemporary theories and practices in the fields of measurement assessment and evaluation with guidance on how to apply these ideas for the benefit of students and institutions Bringing together terminology analytical perspectives and methodological advances this second edition facilitates informed decision making while connecting the latest thinking in these methodological areas with actual practice in higher education This research handbook provides higher education administrators student affairs personnel institutional researchers and faculty with an integrated volume of theory method and application **Handbook of Quantitative Methods for Educational Research** Timothy Teo, 2014-02-07 As part of their research activities researchers in all areas of education develop measuring instruments design and conduct experiments and surveys and analyze data resulting from these activities Educational research has a strong tradition of employing state of the art statistical and psychometric psychological measurement techniques Commonly referred to as quantitative methods these techniques cover a range of statistical tests and tools Quantitative research is essentially about collecting numerical data to explain a particular phenomenon of interest Over the years many methods and models have been developed to address the increasingly complex issues that educational researchers seek to address This handbook serves to act as a reference for educational researchers and practitioners who desire to acquire knowledge and skills in quantitative methods for data analysis or to obtain deeper insights from published works Written by experienced researchers and educators each chapter in this handbook covers a methodological topic with attention paid to the theory procedures and the challenges on the use of that particular methodology It is hoped that readers 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 Handbook of Research Methods in Industrial and Organizational Psychology Steven G. Rogelberg, 2008-04-15 Handbook of Research Methods in Industrial and Organizational Psychology is a comprehensive and contemporary treatment of research philosophies approaches tools and techniques indigenous to industrial and organizational psychology Only available research handbook for Industrial Organizational Psychology Contributors are leading methodological measurement scholars Excellent balance of practical and theoretical insights which

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Fundamentals Of Item Response Theory Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Fundamentals Of Item Response Theory**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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