

ITEM RESPONSE THEORY

UNDERSTANDING STATISTICS
MEASUREMENT



CHRISTINE DEMARS

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Item Response Theory Understanding Statistics

Gerhard Tutz



Item Response Theory Understanding Statistics:

Item Response Theory Christine DeMars, 2010-04-30 This is a title in our Understanding Statistics series which is designed to provide researchers with authoritative guides to understanding presenting and critiquing analyses and associated inferences Each volume in the series demonstrates how the relevant topic should be reported including detail surrounding what can be said and how it should be said as well as drawing boundaries around what cannot appropriately be claimed or inferred This volume addresses an important issue for the design of survey instruments which is rarely taught in graduate programs beyond those specifically for statisticians Item Response Theory is used to describe the application of mathematical models to data from questionnaires and tests as a basis for measuring abilities attitudes or other variables It is used for statistical analysis and development of assessments often for high stakes tests such as the Graduate Record Examination The author is known for her clear accessible writing like all books in this series this volume includes examples of both good and bad write ups for methods sections of journal articles

Item Response Theory Frank B. Baker, Seock-Ho Kim, 2004-07-20 Item Response Theory clearly describes the most recently developed IRT models and furnishes detailed explanations of algorithms that can be used to estimate the item or ability parameters under various IRT models Extensively revised and expanded this edition offers three new chapters discussing parameter estimation with multiple groups parameter

The Basics of Item Response Theory Using R Frank B. Baker, Seock-Ho Kim, 2017-04-25 This graduate level textbook is a tutorial for item response theory that covers both the basics of item response theory and the use of R for preparing graphical presentation in writings about the theory Item response theory has become one of the most powerful tools used in test construction yet one of the barriers to learning and applying it is the considerable amount of sophisticated computational effort required to illustrate even the simplest concepts This text provides the reader access to the basic concepts of item response theory freed of the tedious underlying calculations It is intended for those who possess limited knowledge of educational measurement and psychometrics Rather than presenting the full scope of item response theory this textbook is concise and practical and presents basic concepts without becoming enmeshed in underlying mathematical and computational complexities Clearly written text and succinct R code allow anyone familiar with statistical concepts to explore and apply item response theory in a practical way In addition to students of educational measurement this text will be valuable to measurement specialists working in testing programs at any level and who need an understanding of item response theory in order to evaluate its potential in their settings

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 Item Response Theory R. Darrell Bock, Robert D. Gibbons, 2021-07-21

A complete discussion of fundamental and advanced topics in Item Response Theory written by pioneers in the field In Item Response Theory accomplished psychometricians Darrell Bock and Robert Gibbons deliver a comprehensive and up to date exploration of the theoretical foundations and applications of Item Response Theory IRT Covering both unidimensional and multidimensional IRT as well as related adaptive test administration of previously calibrated item banks the book addresses the growing need for understanding of this topic as the use of IRT spreads to other fields The first book on the topic that offers a complete and unified treatment of its subject Item Response Theory prepares researchers and students to understand and apply IRT and multidimensional IRT to fields like education mental health and marketing Accessible to first year graduate students with a foundation in the behavioral or social sciences basic statistics and generalized linear models the book walks readers through everything from the logic of IRT to cutting edge applications of the technique Readers will also benefit from the inclusion of A thorough introduction to the foundations of Item Response Theory including its logic and origins model based measurement psychological scaling and classical test theory An exploration of selected mathematical and statistical results including points point sets and set operations probability sampling and joint conditional and marginal probability Discussions of unidimensional and multidimensional IRT models including item parameter estimation with binary and polytomous data Analysis of dimensionality differential item functioning and multiple group IRT Perfect for graduate students and researchers studying and working with psychometrics in psychology quantitative psychology educational measurement marketing and statistics Item Response Theory will also benefit researchers interested in patient reported outcomes in health research *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 Fundamentals of Item Response Theory Ronald K. Hambleton, 1991-07-23

Using familiar concepts from classical measurement methods and basic statistics Hambleton and colleagues introduce the basics of item response theory IRT and explain 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 such as maximum likelihood estimation marginal maximum likelihood estimation and Bayesian estimation in such a way that the reader does not need any knowledge of calculus to follow these explanations Including step by step numerical examples throughout the book concludes with an exploration of new directions in IRT research and development

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

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* 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 analysis **Introduction to Item Response Theory Models and Applications** James Carlson, 2020-10-12 This is a highly accessible comprehensive introduction to item response theory IRT models and their use in various aspects of assessment testing The book employs a mixture of graphics and simulated data sets to ease the reader into the material and covers the basics required to obtain a solid grounding in IRT Written in an easily accessible way that assumes little mathematical knowledge Carlson presents detailed descriptions of several commonly used IRT models including those for items scored on a two point dichotomous scale such as correct incorrect and those scored on multiple point polytomous scales such as degrees of correctness One chapter describes a model in depth and is followed by a chapter of instructions and illustrations showing how to apply the models to the reader's own work This book is an essential text for instructors and higher level undergraduate and postgraduate students of statistics psychometrics and measurement theory across the behavioral and social sciences as well as testing professionals

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 as 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

The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation

Bruce B. Frey, 2018-01-29 This encyclopedia is the first major reference guide for students new to the field covering traditional areas while pointing the way to future developments

Multidimensional Item Response Theory Wes Bonifay, 2019-12-10 Several decades of psychometric research have led to the development of sophisticated models for multidimensional test data and in recent years multidimensional item response theory MIRT has become a burgeoning topic in psychological and educational measurement Considered a cutting edge statistical technique the methodology underlying MIRT can be complex and therefore doesn't receive much attention in introductory IRT courses However author Wes Bonifay shows how MIRT can be understood and applied by anyone with a firm grounding in unidimensional IRT modeling His

volume includes practical examples and illustrations along with numerous figures and diagrams Multidimensional Item Response Theory includes snippets of R code interspersed throughout the text with the complete R code included on an accompanying website to guide readers in exploring MIRT models estimating the model parameters generating plots and implementing the various procedures and applications discussed throughout the book [Using R for Item Response Theory Model Applications](#) Insu Paek, Ki Cole, 2019-09-16 Item response theory IRT is widely used in education and psychology and is expanding its applications to other social science areas medical research and business as well Using R for Item Response Theory Model Applications is a practical guide for students instructors practitioners and applied researchers who want to learn how to properly use R IRT packages to perform IRT model calibrations with their own data This book provides practical line by line descriptions of how to use R IRT packages for various IRT models The scope and coverage of the modeling in the book covers almost all models used in practice and in popular research including dichotomous response modeling polytomous response modeling mixed format data modeling concurrent multiple group modeling fixed item parameter calibration modelling with latent regression to include person level covariates simple structure or between item multidimensional modeling cross loading or within item multidimensional modeling high dimensional modeling bifactor modeling testlet modeling two tier modeling For beginners this book provides a straightforward guide to learn how to use R for IRT applications For more intermediate learners of IRT or users of R this book will serve as a great time saving tool for learning how to create the proper syntax fit the various models evaluate the models and interpret the output using popular R IRT packages *A Short Guide to Item Response Theory Models* Gerhard Tutz, 2025-08-02 This book presents foundational concepts essential principles and practical applications of Item Response Theory IRT It provides a structured survey of diverse models that have been put forth emphasizing both their differences and commonalities The main focus is on modern latent trait theory models which provide measurement tools that clearly separate between person abilities and item parameters The topics covered include the binary Rasch model its extensions and alternative binary models ordinal models and their extensions that account for response styles the thresholds model classical test theory response models for count data differential item functioning and explanatory item response models Tree based item response models typically not found in classical IRT textbooks are also addressed Applications of the models are illustrated on several data sets from differing areas showing how models can be fitted and compared All examples have been computed using R Code snippets are provided and the full R code for most of the examples is available online The book is aimed at graduate students applied statisticians and researchers working in psychometrics educators and anyone curious about modeling strategies that enhance the precision and validity of their measurement tools It serves as an introductory guide for beginners while also providing a resource for those seeking an overview of the plethora of available IRT models **Multidimensional Item Response Theory** M.D. Reckase, 2009-07-07 Multidimensional Item Response Theory is the first book to give thorough coverage to this

emerging area of psychometrics The book describes the commonly used multidimensional item response theory MIRT models and the important methods needed for their practical application These methods include ways to determine the number of dimensions required to adequately model data procedures for estimating model parameters ways to define the space for a MIRT model and procedures for transforming calibrations from different samples to put them in the same space A full chapter is devoted to methods for multidimensional computerized adaptive testing The text is appropriate for an advanced course in psychometric theory or as a reference work for those interested in applying MIRT methodology A working knowledge of unidimensional item response theory and matrix algebra is assumed Knowledge of factor analysis is also helpful

Designing Context-Rich Learning by Extending Reality Braun, Jason, Trajkovski, Goran, 2023-05-03 Simulations games and real or virtual apprenticeships are the kinds of context rich learning environments that leverage the power of episodic memory boost student motivation and create the conditions that make learning transfer more likely Context rich learning embodies the answer to the question Why do we need to learn this Many students especially those who have dyslexia or otherwise neurodivergent brains require the kind of context that is lacking in education Designing Context Rich Learning by Extending Reality is a collection of research and readings on the context rich learning approach that examines the aspects of design delivery and assessments The book proposes novel approaches to designing and delivering context rich learning across all disciplines Covering topics such as learning experiences sustainable development and user experience design this premier reference source is a valuable resource of inspiration to learning and training facilitators instructional designers assessment developers instructional technologists psychometricians educators and administrators of both higher and K 12 education pre service teachers teacher educators researchers and academicians *The Theory and Practice of Item Response Theory* R. J. de Ayala, 2022-02-20 Noted for addressing both the hows and whys of item response theory IRT this text has been revised and updated with the latest techniques multilevel models mixed models and more and software packages Simple to more complex models are covered in consistently formatted chapters that build sequentially The book takes the reader from model development through the fit analysis and interpretation phases that would be performed in practice To facilitate understanding common data sets are used across chapters with the examples worked through for increasingly complex models Exemplary model applications include free BIGSTEPS NOHARM Facets R packages and commercial BILOG MG flexMIRT SAS WINMIRA SPSS SYSTAT software packages The companion website provides data files and online only appendices New to This Edition Chapter on multilevel models New material on loglinear models mixed models the linear logistic trait model and fit statistics Many additional worked through examples Updated guidance on software now includes R SAS and flexMIRT

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