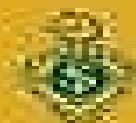


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Explanatory Item Response Models

**A Generalized Linear and
Nonlinear Approach**



Springer

Explanatory Item Response Models Byboeck

Susan E. Embretson, Steven P. Reise



Explanatory Item Response Models Byboeck:

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 *Explanatory Item Response Time Modeling* Daniella

Rebouças Ju, 2021 **Using Explanatory Item Response Models to Evaluate Complex Scientific Tasks Designed for the Next Generation Science Standards** Tina Chiu, 2016 This dissertation includes three studies that analyze a new set of assessment tasks developed by the Learning Progressions in Middle School Science LPS Project These assessment tasks were designed to measure science content knowledge on the structure of matter domain and scientific argumentation while following the goals from the Next Generation Science Standards NGSS The three studies focus on the evidence available for the success of this design and its implementation generally labelled as validity evidence I use explanatory item response models EIRMs as the overarching framework to investigate these assessment tasks These models can be useful when gathering validity evidence for assessments as they can help explain student learning and group differences In the first study I explore the dimensionality of the LPS assessment by comparing the fit of unidimensional between item multidimensional and Rasch testlet models to see which is most appropriate for this data By applying multidimensional item response models multiple relationships can be investigated and in turn allow for a more substantive look into the assessment tasks The second study focuses on person predictors through latent regression and differential item functioning DIF models Latent regression models show the influence of certain person characteristics on item responses while DIF models test whether one group is differentially affected by specific assessment items after conditioning on latent ability Finally the last study applies the linear logistic test model LLTM to investigate whether item features can help explain differences in item difficulties 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 [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

Handbook of Modern Item Response Theory Wim J. van der Linden, Ronald K. Hambleton, 2013-03-09 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 Wim J. van der Linden, 2016

Handbook of Item Response Theory Wim J. van der Linden, 2017-12-15 Drawing on the work of internationally

acclaimed experts in the field Handbook of Item Response Theory Volume 3 Applications presents applications of item response theory to practical testing problems While item response theory may be known primarily for its advances in theoretical modeling of responses to test items equal progress has been made in its providing innovative solutions to daily testing problems This third volume in a three volume set highlights the major applications Specifically this volume covers applications to test item calibration item analysis model fit checking test score interpretation optimal test design adaptive testing standard setting and forensic analyses of response data It describes advances in testing in areas such as large scale educational assessment psychological testing health measurement and measurement of change In addition it extensively reviews computer programs available to run any of the models and applications in Volume One and Three Features Includes contributions from internationally acclaimed experts with a history of advancing applications of item response theory Provides extensive cross referencing and common notation across all chapters in this three volume set Underscores the importance of treating each application in a statistically rigorous way Reviews major computer programs for item response theory analyses and applications Wim J van der Linden is a distinguished scientist and director of research and innovation at Pacific Metrics Corporation Dr van der Linden is also a professor emeritus of measurement and data analysis at the University of Twente His research interests include test theory adaptive testing optimal test assembly parameter linking test equating and response time modeling as well as decision theory and its applications to problems of educational decision making

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

Essays on Item Response Theory Anne Boomsma, Marijtje van Duijn, Tom Snijders, 2012-12-06 This collection of papers provides an up to date treatment of item response theory an important topic in educational testing

Item Response Theory Susan E. Embretson, Steven P. Reise, 2025-11-04 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 this 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 This book is essential for graduate students researchers and practitioners in psychology education and the social sciences It is useful for researchers who are implementing or developing person assessments as well as for professionals in clinical industrial counseling and behavioral 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

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 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 **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 **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 Theory and Practice of Item Response Theory* R. J. de Ayala,2022-04-29 Introduction to measurement The one parameter model Joint maximum likelihood parameter estimation Marginal maximum likelihood parameter estimation The two parameter model The three parameter model Rasch models for ordered polytomous data Non Rasch models for ordered polytomous data Models for nominal polytomous data Models for multidimensional data Linking and equating Differential item functioning Multilevel IRT models Handbook of Item Response Theory Wim J. van der Linden,2016 Drawing on the work of internationally acclaimed experts in the field Handbook of Item Response Theory Volume One Models presents all major item response models This first volume in a three volume set covers many model developments that have occurred in item response theory IRT during the last 20 years It describes models for different

response formats or response processes the need of deeper parameterization due to a multilevel or hierarchical structure of the response data and other extensions and insights In Volume One all chapters have a common format with each chapter focusing on one family of models or modeling approach An introductory section in every chapter includes some history of the model and a motivation of its relevance Subsequent sections present the model more formally treat the estimation of its parameters show how to evaluate its fit to empirical data illustrate the use of the model through an empirical example and discuss further applications and remaining research issues Publisher website

Extensions and Applications of Item Explanatory Models to Polytomous Data in Item Response Theory Jinho Kim, 2018

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

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