


# Item Response Theory in Scale Development Research: A Critical Analysis

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and Roger L. Worthington<sup>2</sup>

## Abstract

As scale development researchers, we have followed Mallinckrodt and colleagues' work over recent years with significant interest. The scale development process can be challenging and typically demands a large investment of time. However, the end of the process is rewarding when the resulting scale is psychometrically sound. Mallinckrodt, Miles, and Recabarren's contribution in this volume of *The Counseling Psychologist* attempted to help integrate the use of item response theory in the scale development process. Although they are to be commended for this endeavor, there are some limitations inherent in their contribution. This reaction provides a critical evaluation of their work to augment their recommendations.

## Keywords

path analysis/SEM, quantitative, scale development

It is an honor to be invited to provide a commentary on Mallinckrodt, Miles, and Recabarren's (2016 [this issue]) work in this volume. In a broad sense, we are in agreement with Mallinckrodt et al. (2016) that scale development research in counseling psychology can be significantly enhanced by the

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# Item Response Theory In Scale Development Research

**Charles L. Hulin, Fritz Drasgow, Charles  
K. Parsons**



## **Item Response Theory In Scale Development Research:**

*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

**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 covariate s 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

**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

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*Scale Development* Robert F. DeVellis, Carolyn T. Thorpe, 2021-09-16 *Scale Development Theory and Applications* by Robert F DeVellis and new co author Carolyn T Thorpe demystifies measurement by emphasizing a logical rather than strictly mathematical understanding of concepts The Fifth Edition includes a new chapter that lays out the key concepts that distinguish indices from scales contrasts various types of indices suggests approaches for developing them reviews validity and reliability issues and discusses in broad terms some analytic approaches All chapters have been updated and the book strikes a balance between including relevant topics and highlighting recent developments in measurement while retaining an accessible user friendly approach to the material covered

*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

**Statistical Guidelines: New Developments in Statistical Methods and Psychometric Tools** Pietro Cipresso, Jason C. Immekus, 2022-03-25 *Item Response Theory* Charles L. Hulin, Fritz Drasgow, Charles K. Parsons, 1983 The measurement theories considered in this book fall into a sub area of psychometrics These theories are concerned with the specifications of rules for transforming individuals responses to items on a psychological test or scale into estimates of the trait assumed to underlie the observable responses Discussed is a particular class of measurement theories generally called item response theory or latent trait theory This book is designed for those individuals involved in programs of applied testing and measurement whose efforts occasionally bring them into contact with the law and public policy

**The Practice of Nursing Research** Nancy Ann Burns, Susan K. Grove, 2005 With its unique

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Abstracts International ,2007      *Encyclopedia of Statistics in Behavioral Science* Brian S. Everitt,David Howell,2005-05-27

The Encyclopedia of Statistics in Behavioral Science encompasses the refined statistical concepts and techniques that are essential to the advancement in psychology and its ever widening fields of application Providing comprehensive accounts drawn from the huge expansion of statistical methodologies in the behavioral sciences highlighting new techniques and developments from the past decade Up to date coverage of developing fields including neuroscience behavioral genetics decision learning and cognitive science Containing over 600 articles and over 400 contributions from eminent psychologists and statisticians world wide Emphasis on practical non technical methods with wide ranging application Extensively cross referenced to ensure fast and accurate access to available information Representing an invaluable addition to both the psychological and statistical literature the Encyclopedia of Statistics in Behavioral Science forms an essential reference work for researchers educators and students in the fields of applied psychology sociology market research consumer behavior management science decision making and human resource management For further details please visit [www.wiley.com/go/eosbs](http://www.wiley.com/go/eosbs)      **Resources in Education** ,1996      Cumulative Index to Nursing Literature Cinahl Information Systems Staff,1999

## **Item Response Theory In Scale Development Research** Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Item Response Theory In Scale Development Research**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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