

**Springer Series  
in Statistics**

**Michael J. Kolen  
Robert L. Brennan**

**Test Equating  
Methods and Practices**



**Springer**

# Test Equating Methods And Practices Springer Series In Statistics

**Hong Jiao, Robert W. Lissitz**



## **Test Equating Methods And Practices Springer Series In Statistics:**

*Test Equating* Michael J. Kolen, Robert L. Brennan, 2013-11-11 In recent years many researchers in the psychology and statistical communities have paid increasing attention to test equating as issues of using multiple test forms have arisen and in response to criticisms of traditional testing techniques This book provides a practically oriented introduction to test equating which both discusses the most frequently used equating methodologies and covers many of the practical issues involved The main themes are the purpose of equating distinguishing between equating and related methodologies the importance of test equating to test development and quality control the differences between equating properties equating designs and equating methods equating error and the underlying statistical assumptions for equating The authors are acknowledged experts in the field and the book is based on numerous courses and seminars they have presented As a result educators psychometricians professionals in measurement statisticians and students coming to the subject for the first time as part of their graduate study will find this an invaluable text and reference

### **Test Equating, Scaling, and Linking**

Michael J. Kolen, Robert L. Brennan, 2013-03-14 Test equating methods are used with many standardized tests in education and psychology to ensure that scores from multiple test forms can be used interchangeably In recent years researchers from the education psychology and statistics communities have contributed to the rapidly growing statistical and psychometric methodologies used in test equating This book provides an introduction to test equating which both discusses the most frequently used equating methodologies and covers many of the practical issues involved This second edition expands upon the coverage of the first edition by providing a new chapter on test scaling and a second on test linking Test scaling is the process of developing score scales that are used when scores on standardized tests are reported In test linking scores from two or more tests are related to one another Linking has received much recent attention due largely to investigations of linking similarly named tests from different test publishers or tests constructed for different purposes The expanded coverage in the second edition also includes methodology for using polytomous item response theory in equating The themes of the second edition include the purposes of equating scaling and linking and their practical context data collection designs statistical methodology designing reasonable and useful equating scaling and linking studies importance of test development and quality control processes to equating equating error and the underlying statistical assumptions for equating Given the perennial debates about academic standards and grade inflation it is my view that tools such as those described in this book should be adopted much more widely by the academic community than they are at present This book provides an excellent overview and I strongly recommend it Short Book Reviews of the ISI April 2005 I highly recommend this book to everybody who has any interest in equating and linking be they a student practitioner or researcher Psychometrika 2006 [Rasch Model for Language Testing](#) Quan Zhang, 2025-11-26 This book focuses on the crucial theme of modern test development and analysis specifically focusing on bridging the gap between theoretical frameworks and practical applications This resource

offers a practical and detailed exploration of psychometric principles encompassing both classical test theory CTT based item analysis and item response theory IRT specifically focusing on the one parameter model Rasch model for test equating By considering CTT and the more sophisticated Rasch model the book provides a comprehensive pathway to enhanced measurement accuracy and efficiency in the human sciences It aims to empower readers with the tools and knowledge necessary to navigate the complexities of test equating item bank creation and the implementation of computerized adaptive testing CAT It provides historical context for these methodologies and outlines prospects for Rasch research emphasizing the importance of establishing a common scale for measuring ability A significant contribution is the introduction of Rasch GZ a cutting edge software developed during the COVID 19 pandemic that incorporates AI driven assistance and bilingual support potentially streamlining the calibration process of items within an item bank The book thoroughly reviews fundamental concepts such as item difficulty and discrimination ensuring readers grasp the theoretical underpinnings of both CTT and IRT It delves into various test equating techniques including Common Item Linking and potentially Common Subject Linking crucial for maintaining invariance across different test forms within a Standardized Examination Real world examples with detailed interpretations serve as a step by step guide to these procedures often relying on anchor items While implicitly addressing the concept of the norm in the context of standardized examination interpretation the resource primarily focuses on the application of psychometric software Access to the student version of Rasch GZ is provided through code alongside supplementary video tutorials facilitating hands on learning and software mastery This book could be used by practitioners in the fields of applied linguistics applied psychology language testing education management and researchers working on language testing methods

[AMSTAT News](#) American Statistical Association,2004

**The Routledge Handbook of Second Language Acquisition and Language Testing** Paula Winke,Tineke Brunfaut,2020-12-27 This Handbook with 45 chapters written by the world s leading scholars in second language acquisition SLA and language testing dives into the important interface between SLA and language testing shared ground where researchers seek to measure second language performance to better understand how people learn their second languages The Handbook also reviews how to best measure and evaluate the second language L2 learners personal characteristics backgrounds and learning contexts to better understand their L2 learning trajectories Taking a transdisciplinary approach to research the book builds upon recent theorizing and measurement principles from the fields of applied linguistics cognitive science psychology psycholinguistics psychometrics educational measurement and social psychology The Handbook is divided into six key sections 1 Assessment concepts for SLA researchers 2 Building instruments for SLA research 3 Measuring individual differences 4 Measuring language development 5 Testing specific populations and 6 Measurement principles for SLA researchers

**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

*Supporting K-12 English Language Learners in Science* Cory Buxton, Martha Allexaht-Snyder, 2016-11-18 The contribution of this book is to synthesize important common themes and highlight the unique features findings and lessons learned from three systematic ongoing research and professional learning projects for supporting English learners in science Each project based in a different region of the U S and focused on different age ranges and target populations actively grapples with the linguistic implications of the three dimensional learning required by the Framework for K 12 Science Education and the Next Generation Science Standards Each chapter provides research based recommendations for improving the teaching of science to English learners Offering insights into teacher professional learning as well as strategies for measuring and monitoring how well English learners are learning science and language this book tells a compelling and inclusive story of the challenges and the opportunities of teaching science to English learners

**Permutation Tests** Phillip I. Good, 2000 This book provides a step by step manual on the application of permutation tests in biology business medicine science and engineering The first edition of this book is well known for its intuitive and informal style and the inclusion of numerous real world problems This new edition has more than 100 additional pages and includes streamlined statistics for the k sample comparison and analysis of variance plus expanded sections on computational techniques multiple comparisons multiple regression comparing variances and testing interactions in balanced designs

*Applying Test Equating Methods* Jorge González, Marie Wiberg, 2017-03-06 This book describes how to use test equating methods in practice The non commercial software R is used throughout the book to illustrate how to perform different equating methods when scores data are collected under different data collection designs such as equivalent groups design single group design counterbalanced design and non equivalent groups with anchor test design The R packages equate kequate and SNSequate among others are used to practically illustrate the different methods while simulated and real data sets illustrate how the methods are conducted with the program R The book covers traditional equating methods including mean and linear equating frequency estimation equating and chain equating as well as modern equating methods such as kernel equating local equating and combinations of these It also offers chapters on observed and true score item response theory equating and discusses recent developments within the equating field More specifically it covers the issue of including

covariates within the equating process the use of different kernels and ways of selecting bandwidths in kernel equating and the Bayesian nonparametric estimation of equating functions It also illustrates how to evaluate equating in practice using simulation and different equating specific measures such as the standard error of equating percent relative error different that matters and others Breakthroughs in Statistics Samuel Kotz, Norman Lloyd Johnson, 1992 This is author approved bcc This is the third volume of a collection of seminal papers in the statistical science written during the past 110 years These papers have each had an outstanding influence on the development of statistical theory and practice over the last century Each paper is preceded by an introduction written by an authority in the field providing background information and assessing its influence Volume III concentrates on articles from the 1980 s while including some earlier articles not included in Volumes I and II Samuel Kotz is Professor of Statistics in the College of Business and Management at the University of Maryland Norman L Johnson is Professor Emeritus of Statistics at the University of North Carolina Also available Breakthroughs in Statistics Volume I Foundations and Basic Theory Samuel Kotz and Norman L Johnson Editors 1993 631 pp Softcover ISBN 0 387 94037 5 Breakthroughs in Statistics Volume II Methodology and Distribution Samuel Kotz and Norman L Johnson Editors 1993 600 pp Softcover ISBN 0 387 94039 1 **Equating an Adaptive Test to a Linear Test** Wim J. van der Linden, 2005 **Journal of Official Statistics** , 2005 Journal of Applied Measurement , 2000 Test Equating, Scaling, and Linking Michael J. Kolen, Robert L. Brennan, 2014-01-15 **Machine Learning, Natural Language Processing, and Psychometrics** Hong Jiao, Robert W. Lissitz, 2024-04-01 With the exponential increase of digital assessment different types of data in addition to item responses become available in the measurement process One of the salient features in digital assessment is that process data can be easily collected This non conventional structured or unstructured data source may bring new perspectives to better understand the assessment products or accuracy and the process how an item product was attained The analysis of the conventional and non conventional assessment data calls for more methodology other than the latent trait modeling Natural language processing NLP methods and machine learning algorithms have been successfully applied in automated scoring It has been explored in providing diagnostic feedback to test takers in writing assessment Recently machine learning algorithms have been explored for cheating detection and cognitive diagnosis When the measurement field promote the use of assessment data to provide feedback to improve teaching and learning it is the right time to explore new methodology and explore the value added from other data sources This book presents the use cases of machine learning and NLP in improving the assessment theory and practices in high stakes summative assessment learning and instruction More specifically experts from the field addressed the topics related to automated item generations automated scoring automated feedback in writing explainability of automated scoring equating cheating and alarming response detection adaptive testing and applications in science assessment This book demonstrates the utility of machine learning and NLP in assessment design and psychometric analysis **The Future of Test-Based**

**Educational Accountability** Katherine E. Ryan, Lorrie A. Shepard, 2009-06-09 In recent decades testing has become a much more visible and high stakes accountability mechanism that is now seen as a powerful tool that can be used to drive school improvement The purpose of this book is to identify and analyze the key issues associated with test based educational accountability and to chart the future of educational accountability research Chapter contributions are intended to be forward looking rather than a compendium of what has happened in the past The book provides an accessible discussion of issues such as validity test equating growth modeling fairness for special populations causal inferences and misuses of accountability data *Forthcoming Books* Rose Arny, 2004 **American Book Publishing Record**, 2003 Assessment of Competencies in Educational Contexts Eckhard Klieme, Detlev Leutner, Johannes Hartig, 2008 Covers theoretical psychometric and practical issues related to the assessment of competencies in educational and vocational settings This book is suitable for researchers interested in theoretical and psychometric background of assessment and for readers interested in practical aspects of computer based assessment and evaluation The History of Educational Measurement Brian E. Clauser, Michael B. Bunch, 2021-07-07 The History of Educational Measurement collects essays on the most important topics in educational testing measurement and psychometrics Authored by the field's top scholars this book offers unique historical viewpoints from origins to modern applications of formal testing programs and mental measurement theories Topics as varied as large scale testing validity item response theory federal involvement and notable assessment controversies complete a survey of the field's greatest challenges and most important achievements Graduate students researchers industry professionals and other stakeholders will find this volume relevant for years to come

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