Invariant Measurement - George Engelhard Jr. - 2013-05-07
This introductory text describes the principles of invariant measurement, how invariant measurement can be achieved with Rasch models, and how to use invariant measurement to solve measurement problems in the social, behavioral, and health sciences. Rasch models are used throughout but a comparison of Rasch models to other item response theory (IRT) models is also provided. Written with students in mind, the manuscript was class tested to help maximize accessibility. Chapters open with an introduction and close with a summary and discussion. Numerous examples and exercises demonstrate the main issues addressed in each chapter. Key terms are defined when first introduced and in an end-of-text glossary. All of the book’s analyses were conducted with the Facets program. The data sets used in the book, sample syntax files for running the Facets program, Excel files for creating item and person response functions, links to related websites, and other material are available at www.GeorgeEngelhard.com. Highlights include: A strong philosophical and methodological approach to measurement in the human sciences, Demonstrations of how measurement problems can be addressed using invariant measurement, Practical illustrations of how to create and evaluate scales using invariant measurement, A history of measurement based on test-score and scaling traditions Previously unpublished work in analyzing rating data, the detection and measurement of rater errors, the evaluation of rater accuracy, A review of estimation methods, model-data fit, indices used to evaluate the quality of rater-mediated assessments, rater error and bias, and rater accuracy. Intended as a supplementary text for graduate or advanced undergraduate courses on measurement or test theory, item response theory, scaling theory, psychometrics, advanced measurement techniques, research methods, or evaluation courses taught in education, psychology, and the social and health sciences, the book also appeals to practitioners and researchers in these fields who develop or use scales and instruments. Only a basic mathematical level is required including a basic course in statistic.

Rasch Models for Solving Measurement Problems - George Engelhard, Jr. - 2020-12-22
This book introduces current perspectives on Rasch measurement theory with an emphasis on developing Rasch-based scales. Authors George Engelhard Jr and Jue Wang introduce Rasch measurement theory step by step, with chapters on scale construction, evaluation, maintenance, and use. Points are illustrated and techniques are demonstrated through an extended example: The Food Insecurity Experience (FIE) Scale.

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Invariant Measurement with Raters and Rating Scales - George Engelhard Jr. - 2017-12-15
The purpose of this book is to present methods for developing, evaluating and maintaining rater-mediated assessment systems. Rater-mediated assessments involve ratings that are assigned by raters to persons responding to constructed-response items (e.g., written essays and teacher portfolios) and other types of performance assessments. This book addresses the following topics: (1) introduction to the principles of invariant measurement, (2) application of the principles of invariant measurement to rater-mediated assessments, (3) description of the lens model for rater judgments, (4) integration of principles of invariant measurement with the lens model of cognitive processes of raters, (5) illustration of substantive and psychometric issues related to rater-mediated assessments in terms of validity, reliability, and fairness, and (6) discussion of theoretical and practical issues related to rater-mediated assessment systems. Invariant measurement is fast becoming the dominant paradigm for assessment systems around the world, and this book provides an invaluable resource for graduate students, measurement practitioners, substantive theorists in the human sciences, and other individuals interested in invariant measurement when judgments are obtained with rating scales.

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Responding to constructed-response items (e.g., written essays and teacher speech) is like.... Combining theoretical rigor and real-world examples with empirical datasets from published papers, this book is applicable. With a focus on simple software code which does not assume extensive mathematical knowledge, the reader is introduced to the so-called simple Rasch Model to construct a “political activism” variable out of a group of dichotomously scored questions. In subsequent chapters, the book covers everything from the Rating Scale to the Many-facets Rasch model. The final chapter even showcases a complete mock manuscript, demonstrating how a Rasch-based paper on the identification of online hate speech should look like. Combining theoretical rigor and real-world examples with empirical datasets from published papers, this book is essential reading for students and researchers alike who aspire to use Rasch models in their research.

**Applying the Rasch Model**

Written in an accessible style, this book facilitates a deep understanding of the Rasch model. Authors Bond and Fox review the crucial properties of the Rasch model and demonstrate its use with a wide range of examples including the measurement of educational achievement, human development, attitudes, and medical rehabilitation. A glossary and numerous illustrations further aid the reader’s understanding. The authors demonstrate how to apply Rasch analysis and prepare readers to perform their own analyses and interpret the results. Updated throughout, highlights of the Second Edition include: a new CD that features an introductory version of the latest Winsteps program and the data files for the book’s examples, preprogrammed to run using Winsteps; a new chapter on invariance that highlights the parallels between physical and human science measurement; a new appendix on analyzing data to help those new to Rasch analysis; more explanation of the key concepts and item characteristic curves; a new empirical example with data sets demonstrates the many facets of the Rasch model and other new examples; and an increased focus on issues related to unidimensionality, multidimensionality, and the Rasch factor analysis of residuals. Applying the Rasch Model is intended for researchers and practitioners in psychology, especially developmental psychologists, education, health care, medical rehabilitation, business, government, and those interested in measuring attitude, ability, and/or performance. The book is an excellent text for use in courses on advanced research methods, measurement, or quantitative analysis. Significant knowledge of statistics is not required.

**Applying the Rasch Model in Social Sciences Using R**

This unique text provides a step-by-step beginner’s guide to applying the Rasch model in R, a probabilistic model used by researchers across the social sciences to measure unobservable (“latent”) variables. Each chapter is devoted to one popular Rasch model, ranging from the least to the most complex. Through a freely available and user-friendly package, BlueSky Statistics, Lamprianou offers a range of options for presenting results, critically examines the strengths and weaknesses of applying the Rasch model in each instance, and suggests more effective methodologies where applicable. With a focus on simple software code which does not assume extensive mathematical knowledge, the reader is introduced to the so-called simple Rasch Model to construct a “political activism” variable out of a group of dichotomously scored questions. In subsequent chapters, the book covers everything from the Rating Scale to the Many-facets Rasch model. The final chapter even showcases a complete mock manuscript, demonstrating how a Rasch-based paper on the identification of online hate speech should look like. Combining theoretical rigor and real-world examples with empirical datasets from published papers, this book is essential reading for students and researchers alike who aspire to use Rasch models in their research.

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**Invariant Measurement with Raters**

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A Course in Rasch Measurement Theory - David Andrich - 2019-07-15

This book applies Rasch measurement theory to the fields of education, psychology, sociology, marketing and health outcomes in order to measure various social constructs. The chief focus is on first principles of both the theory and its applications. Because software is readily available to carry out analyses of real data, numerous small examples are provided in the book. The software used in these examples, and which is helpful in working through the text, is RUMM2030 (Rasch unidimensional models for measurement). The book's main goals are to equip researchers with the confidence they need in order to be in control of the analysis and interpretation of data, and to make professional rather than primarily statistical decisions mechanically. Because statistical principles are necessarily involved, reviews of the requisite statistics are provided in the Appendix. The content is based on courses that have been taught both online and in intensive form for over two decades. Although first principles are emphasised, much of the book is based on research conducted by the two authors and their colleagues.

Applying the Rasch Model - Trevor Bond - 2015-06-05

Cited over 1900 times, this classic text facilitates a deep understanding of the Rasch model. The authors review the crucial properties of the model and demonstrate its use with a variety of examples from education, psychology, and health. A glossary and numerous illustrations aid the reader's understanding. Readers learn how to apply Rasch analysis so they can perform their own analyses and interpret the results. The authors present an accessible overview that does not require a mathematical background. Highliness, and other social science professionals in these areas also appreciate the book's accessible introduction.
introducing Rasch analysis, which is one of the most elementary and commonly used. The author explains the general principles behind the models, and demonstrates their procedures for measurement. Comparisons are made with other more widely-used models. Throughout the text, an example from a personality inventory is used to provide continuity as the statistical arguments are presented and procedures explained.

**Constructing Measures** - Mark Wilson - 2004-12-13

Constructing Measures introduces a way to understand the advantages and disadvantages of measurement instruments, how to use such instruments, and how to apply these methods to develop new instruments or adapt old ones. The book is organized around the steps taken while constructing an instrument. It opens with a summary of the constructive steps involved. Each step is then expanded on in the next four chapters. These chapters develop the "building blocks" that make up an instrument—the construct map, the design plan for the items, the outcome space, and the statistical measurement model. The next three chapters focus on quality control. They rely heavily on the calibrated construct map and review how to check if scores are operating consistently and how to evaluate the reliability and validity evidence. The book introduces a variety of item formats, including multiple-choice, open-ended, and performance items; projects; portfolios; Likert and Guttman items; behavioral observations; and interview protocols. Each chapter includes an overview of the key concepts, related resources for further investigation and exercises and activities. Some chapters feature appendices that describe parts of the instrument development process in more detail, numerical manipulations used in the text, and/or data results. A variety of examples from the behavioral and social sciences and education including achievement and performance testing; attitude measures; health measures, and general sociological scales, demonstrate the application of the material. An accompanying CD features control files, output, and a data set to allow readers to compute the text’s exercises and create new analyses and case archives based on the book’s examples so the reader can work through the entire development of an instrument. Constructing Measures is an ideal text or supplement in courses on item, test, or instrument development, measurement, item response theory, or rasch analysis taught in a variety of departments including education and psychology. The book also appeals to those who develop instruments, including industrial/organizational, educational, and school psychologists, health outcomes researchers, program evaluators, and sociological measurers. Knowledge of basic descriptive statistics and elementary regression is recommended.


Thirty-two years after the publication of the legendary ‘Rasch book’ (Rasch, 1960), the rich literature on the Rasch model and its extensions was scattered in journals and many less accessible sources, including ‘grey’ literature. When asked by students or junior researchers for references to the Rasch model, it was a typical reaction on the part of the editors to state that it was difficult to name one, or just a few, actually, only a whole list of references differing in notation and level of formal abstraction seemed to meet the request in most cases. Therefore, in 1992 the editors decided to invite a number of outstanding authors in the field of Rasch modeling to contribute to a book presenting the current state of knowledge about Rasch models. The aim was not just to collect a number of papers on the subject, rather to produce a well-organized monograph. To this end, a workshop was held in Vienna from 25 to 27 February 1993 in which, after a process of mutual reviewing, drafts of all chapters were read and discussed by the authors, leading to a more systematic organization of the topics treated in unified notation and terminology. (The workshop was sponsored by the University of Vienna; here, the editors would like to express their thanks, in the name of all contributors, both for the financial support and for the hospitality granted.

**Rasch Measurement** - Myint Swe Khine - 2020-01-01

This book focuses on the use of the Rasch measurement model in validation studies and in analyzing the psychometric properties of a variety of test instruments, questionnaires, and scales in international contexts. It broadly examines the development and application of Rasch modeling, providing in-depth analyses of the properties of various scales used in the fields of education, and humanities and social sciences research. The book includes exemplary works on educational research and practices that highlight recent and innovative applications, as well as theoretical and practical aspects of Rasch modeling. Readers will find it helpful to understand the latest approaches to Rasch measurement in educational research, as well as practices for future studies and quantitative research. This book provides a diverse set of perspectives on Rasch models from scholars across the globe. The volume is both theoretical and applied. The first section of the book provides an overview of Rasch modeling and explains the theoretical and conceptual framework underlying the Rasch model. The remainder of the book highlights multiple applications of the Rasch model within educational assessment as well as several examples of how Rasch modeling can be used for validation studies. This volume showcases the wide variety of ways in which Rasch modeling can be applied to assessment data to provide insights into students’ achievement learning and to improve instruction.”-Betsy McCoach, University of Connecticut, USA. ‘A well-written collection of articles. Grouped by the theoretical and applied aspects of Rasch
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Best Practices in Quantitative Methods - Jason W. Osborne - 2008
The contributors to Best Practices in Quantitative Methods envision quantitative methods in the 21st century, identify the best practices, and, where possible, demonstrate the superiority of their recommendations empirically. Editor Jason W. Osborne designed this book with the goal of providing readers with the most effective, evidence-based, modern quantitative methods and quantitative data analysis across the social and behavioral sciences. The text is divided into five main sections covering select best practices in Measurement, Research Design, Basics of Data Analysis, Quantitative Methods, and Advanced Quantitative Methods. Each chapter contains a current and expansive review of the literature, a case for best practices in terms of method, outcomes, inferences, etc., and broad-ranging examples along with any empirical evidence to show why certain techniques are better. Key Features: Describes important implicit knowledge to readers. The chapters in this volume explain the important details of seemingly mundane aspects of quantitative research, making them accessible to readers and demonstrating why it is important to pay attention to these details. Compares and contrasts analytic techniques: The book examines instances where there are multiple options for doing things, and make recommendations as to what is the "best" choice—or choices, as what is best often depends on the circumstances. Offers new procedures to update and explicate traditional techniques: The featured scholars present and explain new options for data analysis, discussing the advantages and disadvantages of the new procedures in depth, describing how to perform them, and demonstrating their use. Introducing the vanguard of research methods for the 21st century, this book is an invaluable resource for graduate students and researchers who want a comprehensive, authoritative resource for practical and sound advice from leading experts in quantitative methods.

Psychological and Social Measurement - Mark Wilson - 2017-12-22
In this tribute to Benjamin Wright, former students and colleagues recall the foundational contributions he made to the theory and practice of measurement in a career spanning over five decades. Wright is recognized as the foremost proponent of the psychometric approach of Georg Rasch, a Danish mathematician, whose ideas continue to provoke controversy. Wright's colleagues and students, and students of their students, are leaders in educational research and practice around the world. This volume relates the extent of Wright's influence far beyond education and psychology, where his work in measurement began, into health care and the social sciences at large. The editors and contributors—all leading measurement scholars—trace the development of themes in Wright's work, identifying the roots of today's formative assessment methods, the integration of quantitative and qualitative data, and the contrast between scientific and statistical methods. These previously unpublished papers reflect on Wright's lifelong passion for making measurement both more scientific and more meaningful. They recount how Wright's insight, energy, and gregarious nature led him to produce multiple innovations in computing, estimation methods, model development, fit assessment, and reliability theory, stimulating practical applications in dozens of fields, serving on over 120 dissertation committees, and founding several professional societies. The volume includes three reprinted articles by Wright that provide insights into his early engagement with Rasch's ideas. Psychological and Social Measurement will be welcomed by the broad international measurement community of professionals and researchers working in such diverse fields as education, psychology, health sciences, management, and metrology. Scientists working in any field involving measurement science and technology will appreciate an inside look at this seminal figure and a new perspective on the expanding conversation across the sciences about measurement and the communication of meaningful, transparent information.
Highlights of the new edition include: More learning tools to strengthen Multidimensional Item Response Theory; emphasis on the use of R packages; readers can download the R code from the Routledge website. Explores the distinction between numerical values, quantity and units, to understand the measurement and the role of the Rasch logit scale (Chapter 4). A new four-option data set from the IASQ (Instrumental Attitude towards Self-assessment Questionnaire) for the Rating Scale Model (RSM) analysis exemplar (Chapter 6). Clarifies the relationship between Rasch measurement, path analysis and SEM, with a host of new examples of Rasch measurement applied across health sciences, education and psychology (Chapter 10). Intended as a text for graduate courses in measurement, item response theory, (advanced) research methods or quantitative analysis in psychology, education, human development, business, and other social and health sciences. Professionals in these areas will also appreciate the book’s accessible introduction.

Quantitative Psychology - Marie Wiberg - 2020-07-23
This proceedings volume highlights the latest research and developments in psychometrics and statistics. It represents selected and peer reviewed presentations given at the 84th Annual International Meeting of the Psychometric Society (IMPS), organized by Pontificia Universidad Católica de Chile and held in Santiago, Chile during July 15th to 19th, 2019. The IMPS is one of the largest international meetings on quantitative measurement in education, psychology and the social sciences. It draws approximately 500 participants from around the world, featuring paper and poster presentations, symposiums, workshops, keynotes, and invited presentations. Leading experts and promising young researchers have written the included chapters. The chapters address a large variety of topics including but not limited to item response theory, multistage adaptive testing, and cognitive diagnostic models. This volume is the 8th in a series of recent volumes to cover research presented at the IMPS.

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This book collects and organizes the original studies presented at PROMS 2014 conference on theories and applications of Rasch model. It provides useful examples of the Rasch model used to address practical measurement problems across a range of different disciplines including: Item Response Theory (IRT), philosophy of measurement, dimensionality, the role of fit statistics and residuals, application, educational application, language testing, health related research, business and industrial application and Rasch-based computer software. PROMS 2014 (Pacific Rim Objective Measurement Symposium) was held August 2 – 6, 2014 in Guangzhou, China. The goal of this conference is to bring together the researchers from academia, universities, hospitals, industry, management sector as well as practitioners to share ideas, problems and solutions relating to the multifaceted aspects of Rasch Model.

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Applying the Rasch Model - Trevor Bond - 2020-07-19
Recognised as the most influential publication in the field, ARM facilitates deep understanding of the Rasch model and its practical applications. The authors review the crucial properties of the model and demonstrate its use with examples across the human sciences. Readers will be able to understand and critically evaluate Rasch measurement research, perform their own Rasch analyses and interpret their results. The glossary and illustrations support that understanding, and the accessible approach means that it is ideal for readers without a mathematical background.
This book provides a thorough background of the Model Cornerstone Assessments (MCAs) and the confidence measures administered to guide implementation by teachers, administrators, and the educational community.

**Applying Model Cornerstone Assessments in K–12 Music** - Frederick Burrack

This book provides a thorough background of the Model Cornerstone Assessments (MCAs) and the confidence measures administered to guide implementation by teachers, administrators, and the educational community.

**Quantitative Data Analysis for Language Assessment Volume I** - Vahid Aryadoust

Quantitative Data Analysis for Language Assessment Volume I: Fundamental Techniques is a resource book that presents the most fundamental techniques of quantitative data analysis in the field of language assessment. Each chapter provides an accessible explanation of the selected technique, a review of language assessment studies that have used the technique, and finally, an example of an authentic study that uses the technique. Readers also get a taste of how to apply each technique through the help of supplementary online resources that include sample data sets and guided instructions. Language assessment students, test designers, and researchers should find this a unique reference as it consolidates theory and application of quantitative data analysis in language assessment.

**Perceived Health and Adaptation in Chronic Disease** - Francis Guillemín

Chronic diseases have become predominant in Western societies and in many developing countries. They affect quality of life and daily activities and require regular medical care. This unique monograph will bring readers up to date with chronic disease research, with a focus on health-related quality of life and patient perception of the impact of the diseases and health intervention, as well as psychological adaptation to the disease. It considers the application of concepts and measures in medical and psychological clinical practice and in public health policies. Informed by theory, philosophy, history and empirical research, chapters will indicate how readers might advance their own thinking, learning, practice and research. The book is intended to be provocative and challenging to enhance discussion about theory as a key component of research and practice. Perceived Health and Adaptation in Chronic Disease will be of interest to researchers and academics alike. It boasts a wide range of contributions from leading international specialists from Australia, Canada, Denmark, France, Germany, the Netherlands, Spain, Sweden, the UK and the USA. This has also allowed the book to provide readers with a multidisciplinary approach.

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The Handbook's first volume emphasizes international and theoretical perspectives on music education assessment in the major world regions. This volume also looks at technical aspects of measurement in music, and outlines situations where theoretical foundations can be applied to the development of tests in music. The Handbook's second volume offers a series of practical and US-focused approaches to music education assessment. Chapters address assessment in different types of US classrooms; how to assess specific skills or requirements; and how assessment can be used in university and music education. Together, both volumes of The Oxford Handbook of Assessment in Music Education pave the way forward for music educators and researchers in the field.

The Oxford Handbook of Assessment Policy and Practice in Music Education - Timothy S. Brophy - 2019-01-02
In the music classroom, instructors who hope to receive aid are required to provide data on their classroom programs. Due to the lack of reliable, valid large-scale assessments of student achievement in music, however, music educators in schools that accept funds face a considerable challenge in finding a way to measure student learning in their classrooms. From Australia to Taiwan to the Netherlands, music teachers experience similar struggles in the quest for a definitive assessment resource that can be used by both music educators and researchers. In this two-volume Handbook, contributors from across the globe come together to provide an authority on the assessment, measurement, and evaluation of student learning in music. The Handbook’s first volume emphasizes international and theoretical perspectives on music education assessment in the major world regions. This volume also looks at technical aspects of measurement in music, and outlines situations where theoretical foundations can be applied to the development of tests in music. The Handbook’s second volume offers a series of practical and US-focused approaches to music education assessment. Chapters address assessment in different types of US classrooms; how to assess specific skills or requirements; and how assessment can be used in tertiary and music teacher education classrooms. Together, both volumes of The Oxford Handbook of Assessment in Music Education pave the way forward for music educators and researchers in the field.

Educational Measurement for Applied Researchers - Margaret Wu - 2017-01-02
This book is a valuable read for a diverse group of researchers and practitioners who analyze assessment data and construct test instruments. It focuses on the use of classical test theory (CTT) and item response theory (IRT), which are often required in the fields of psychology (e.g. for measuring psychological traits), health (e.g. for measuring the severity of disorders), and education (e.g. for measuring student performance), and makes these analytical tools accessible to a broader audience. Having taught assessment subjects to students from diverse backgrounds for a number of years, the three authors have a wealth of experience in presenting educational measurement topics, in-depth concepts and applications in an accessible format. As such, the book addresses the needs of readers who use CTT and IRT in their work but do not necessarily have an extensive mathematical background. The book also sheds light on common misconceptions in applying measurement models, and presents an integrated approach to different measurement methods, such as contrasting CTT with IRT and multidimensional IRT models with unidimensional IRT models. Wherever possible, comparisons between models are explicitly made. In addition, the book discusses concepts for test equating and differential item functioning, as well as Bayesian IRT models and plausible values using simple examples. This book can serve as a textbook for introductory courses on educational measurement, as supplementary reading for advanced courses, or as a valuable reference guide for researchers interested in analyzing student assessment data.

Educational Measurement for Applied Researchers - Margaret Wu - 2017-01-02
This book is a valuable read for a diverse group of researchers and practitioners who analyze assessment data and construct test instruments. It focuses on the use of classical test theory (CTT) and item response theory (IRT), which are often required in the fields of psychology (e.g. for measuring psychological traits), health (e.g. for measuring the severity of disorders), and education (e.g. for measuring student performance), and makes these analytical tools accessible to a broader audience. Having taught assessment subjects to students from diverse backgrounds for a number of years, the three authors have a wealth of experience in presenting educational measurement topics, in-depth concepts and applications in an accessible format. As such, the book addresses the needs of readers who use CTT and IRT in their work but do not necessarily have an extensive mathematical background. The book also sheds light on common misconceptions in applying measurement models, and presents an integrated approach to different measurement methods, such as contrasting CTT with IRT and multidimensional IRT models with unidimensional IRT models. Wherever possible, comparisons between models are explicitly made. In addition, the book discusses concepts for test equating and differential item functioning, as well as Bayesian IRT models and plausible values using simple examples. This book can serve as a textbook for introductory courses on educational measurement, as supplementary reading for advanced courses, or as a valuable reference guide for researchers interested in analyzing student assessment data.
assessment. This comprehensive volume begins with a broad explanation of models. Wherever possible, comparisons between models are explicitly made. In addition, the book discusses methods for test equating and differential item functioning, as well as Bayesian IRT models and plausible values using simple examples. This book can serve as a textbook for introductory courses on educational measurement, as supplementary reading for advanced courses, or as a valuable reference guide for researchers interested in analyzing student assessment data.

This book gathers original studies presented at the PROMS 2016 conference on Rasch theories and Rasch-based applications. It provides significant examples used to address practical measurement problems across a range of disciplines, including: Classic Testing Theory (CTT), Item Response Theory (IRT), philosophy of measurement, dimensionality, the role of fit statistics and research, business and industrial applications, health-related research and the latest Rasch-based computer software. PROMS welcomes empirical and theoretical studies and workshops, preferably with an emphasis on the Rasch model. Special attention is paid to manuscripts submitted by non-native English-speaking authors from Pacific Rim countries, regions and beyond. PROMS 2016 (Pacific Rim Objective Measurement Symposium) was held July 30-August 3, 2016 in Xi'an, China. The goal of the conference was to bring together researchers, scholars and professors from research institutes, universities, hospitals, business and management sectors, as well as professional practitioners, to exchange and share ideas, problems and solutions regarding the multifaceted aspects of the Rasch model and on the much debated yet highly topical issues of objective assessment.

Several key developments challenge the field of educational measurement today: demands for tests at larger scales with higher stakes, an improved understanding of how people develop capabilities, and new technologies for interactive digital assessments. Sociocognitive Foundations of Educational Measurement integrates new developments in educational measurement and educational psychology in order to provide researchers, testing professionals, and students with an innovative sociocognitive perspective on assessment. This comprehensive volume begins with a broad explanation of the sociocognitive perspective and the foundations of assessment, then provides a series of focused applications to major topics such as assessment arguments, validity, fairness, interactive assessment, and a conception of "measurement" in educational assessment. Classical test theory, item response theory, categorical models, mixture models, cognitive diagnosis models, and Bayesian networks are explored from the resulting perspective. Ideal for specialists in these areas, graduate students, developers, and scholars in both educational measurement and fields that contribute to a sociocognitive perspective, this book consolidates nearly a decade of research into a fresh perspective on educational measurement.

Rasch Analysis in the Human Sciences - William J. Boone - 2013-12-13
Rasch Analysis in the Human Sciences helps individuals, both students and researchers, master the key concepts and resources needed to use Rasch techniques for analyzing data from assessments to measure variables such as abilities, attitudes, and personality traits. Upon completion of the text, readers will be able to confidently evaluate the strengths and weaknesses of existing instrumentation, compute linear person measures and item measures, interpret Wright Maps, utilize Rasch software, and understand what it means to measure in the Human Sciences. Each of the 24 chapters presents a key concept using a mix of theory and application of theoretically reliable and user-friendly Rasch software. Chapters also include a beginning and ending dialogue between two typical researchers learning Rasch, "Formative Assessment Check Points," sample data files, an extensive set of application activities with answers, a one paragraph sample research article text integrating the chapter topic, quick-tips, and suggested readings. Rasch Analysis in the Human Sciences will be an essential resource for anyone wishing to begin, or expand, their learning of Rasch measurement techniques, be it in the Health Sciences, Market Research, Education, or Psychology.

JSL Vol 26-N5 - JOURNAL OF SCHOOL LEADERSHIP - 2017-01-12
JSL invites the submission of manuscripts that contribute to the exchange of ideas and scholarship about schools and leadership. All theoretical and methodological approaches are welcome. We do not advocate or practice a bias toward any mode of inquiry (e.g., qualitative vs. quantitative; empirical vs. conceptual; discipline-based vs. interdisciplinary) and instead operate from the assumption that all careful and methodologically sound research has the potential to contribute to our understanding of school leadership. We strongly encourage authors to consider both the local and global implications of their work. The journal’s goal is to clearly communicate with a diverse audience including both school-based and university-based educators. The journal embraces a board conception of school leadership and welcomes manuscripts that reflect the diversity of ways in which this
focus on administrative leadership in schools and school districts, but also in manuscripts that inquire about teacher, student, parent, and community leadership.