

# Scale Development Theory And Applications Applied Social Research Methods

Synthesizing the literature from the survey and measurement fields, this book explains how to develop closed-response survey scales that will accurately capture such constructs as attitudes, beliefs, or behaviors. It provides guidelines to help applied researchers or graduate students review existing scales for possible adoption or adaptation in a study; create their own conceptual framework for a scale; write checklists, true-false variations, and Likert-style items; design response scales; examine validity and reliability; conduct a factor analysis; and document the instrument development and its technical quality. Advice is given on constructing tables and graphs to report survey scale results. Concepts and procedures are illustrated with "Not This/But This" examples from multiple disciplines. User-Friendly Features \*End-of-chapter exercises with sample solutions, plus annotated suggestions for further reading. \*"Not This/But This" examples of poorly written and strong survey items. \*Chapter-opening overviews and within-chapter summaries. \*Glossary of key concepts. \*Appendix with examples of parametric and nonparametric procedures for group comparisons.

Practical Sampling provides guidance for researchers dealing with the everyday problems of sampling. Using the practical design approach Henry integrates sampling into the overall research design and explains the interrelationships between research and sampling choices. The style is concise and narrative; mathematical presentations are limited to necessary formulas; and calculations are kept to the absolute minimum, making it very approachable for any researcher.

Grid-Scale Energy Storage Systems and Applications provides a timely introduction to state-of-the-art technologies and important demonstration projects in this rapidly developing field. Written with a view to real-world applications, the authors describe storage technologies and then cover operation and control, system integration and battery management, and other topics important in the design of these storage systems. The rapidly-developing area of electrochemical energy storage technology and its implementation in the power grid is covered in particular detail. Examples of Chinese pilot projects in new energy grids and micro grids are also included. Drawing on significant Chinese results in this area, but also including data from abroad, this will be a valuable reference on the development of grid-scale energy storage for engineers and scientists in power and energy transmission and researchers in academia. Addresses not only the available energy storage technologies, but also topics significant for storage system designers, such as technology management, operation and control, system integration and economic assessment Draws on the wealth of Chinese research into energy storage and describes important Chinese energy storage demonstration projects Provides practical examples of the application of energy storage technologies that can be used by engineers as references when designing new systems Presents a people-centred approach to development.

Measures of Social Psychological Attitudes

Improving Survey Questions

Operationalization of Latent Constructs

Measurement in Nursing and Health Research

Case Studies and Exercises

The Practice of Survey Research

Developed and adapted by the authors of this book, thematic analysis (TA) is one of the most popular qualitative data analytic techniques in psychology and the social and health sciences. Building on the success of Braun & Clarke's 2006 paper first outlining their approach - which has over 100,000 citations on Google Scholar - this book is the definitive guide to TA, covering: - Contextualisation of TA - Developing themes - Writing TA reports - Reflexive TA It addresses the common questions surrounding TA as well as developments in the field, offering a highly accessible and practical discussion of doing TA situated within a clear

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understanding of the wider terrain of qualitative research. Virginia Braun is a Professor in the School of Psychology at The University of Auckland, Aotearoa New Zealand. Victoria Clarke is an Associate Professor in Qualitative and Critical Psychology in the Department of Social Sciences at the University of the West of England (UWE), Bristol.

Which types of validity evidence should be considered when determining whether a scale is appropriate for a given measurement situation? What about reliability evidence? Using clear explanations illustrated by examples from across the social and behavioral sciences, this engaging text prepares students to make effective decisions about the selection, administration, scoring, interpretation, and development of measurement instruments. Coverage includes the essential measurement topics of scale development, item writing and analysis, and reliability and validity, as well as more advanced topics such as exploratory and confirmatory factor analysis, item response theory, diagnostic classification models, test bias and fairness, standard setting, and equating. End-of-chapter exercises (with answers) emphasize both computations and conceptual understanding to encourage readers to think critically about the material. ÿ

A comprehensive survey research book that incorporates survey design, implementation, data management, and data analysis, this text is based in sociological research and contains extensive examples throughout. This book examines the uniqueness of each research topic and the fact that when doing such research, there is a need to make decisions about the many unique situations while trying to answer the research question. Each chapter is framed by addressing the decisions that need to be made depending on the various challenges that may arise as the survey study is developed.

This new text provides a state-of-the-art introduction to educational and psychological testing and measurement theory that reflects many intellectual developments of the past two decades. The book introduces psychometric theory using a latent variable modeling (LVM) framework and emphasizes interval estimation throughout, so as to better prepare readers for studying more advanced topics later in their careers. Featuring numerous examples, it presents an applied approach to conducting testing and measurement in the behavioral, social, and educational sciences. Readers will find numerous tips on how to use test theory in today's actual testing situations. To reflect the growing use of statistical software in psychometrics, the authors introduce the use of Mplus after the first few chapters. IBM SPSS, SAS, and R are also featured in several chapters. Software codes and associated outputs are reviewed throughout to enhance comprehension.

Essentially all of the data used in the book are available on the website. In addition instructors will find helpful PowerPoint lecture slides and questions and problems for each chapter. The authors rely on LVM when discussing fundamental concepts such as exploratory and confirmatory factor analysis, test theory, generalizability theory, reliability and validity, interval estimation, nonlinear factor analysis, generalized linear modeling, and item response theory. The varied applications make this book a valuable tool for those in the behavioral, social, educational, and biomedical disciplines, as well as in business, economics, and marketing. A brief introduction to R is also provided. Intended as a text for advanced undergraduate and/or graduate courses in psychometrics, testing and measurement, measurement theory, psychological testing, and/or educational and/or psychological measurement taught in departments of psychology, education, human development, epidemiology, business, and marketing, it will also appeal to

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researchers in these disciplines. Prerequisites include an introduction to statistics with exposure to regression analysis and ANOVA. Familiarity with SPSS, SAS, STATA, or R is also beneficial. As a whole, the book provides an invaluable introduction to measurement and test theory to those with limited or no familiarity with the mathematical and statistical procedures involved in measurement and testing.

A Practical Guide to Their Development and Use

Invariant Measurement in the Social Sciences

Measurement Theory in Action

History, Theory, and Applications

Practical Sampling

Multidimensional Scaling

Investigates impact of interparental conflict on children.

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.

The field of health psychology has exploded in the last decade due to progress identifying physiological mechanisms by which psychological, social, and behavioral factors can put people's health and well-being at risk. The Handbook of Physiological Research Methods in Health Psychology provides thorough, state-of-the-art, and user-friendly coverage of basic techniques for measurement of physiological variables in health psychology research. It is designed to serve as a primary reference source for researchers and students interested in expanding their research to consider a biopsychosocial approach. Chapters addressing key physiological measures have been written by international experts with an eye towards documenting essential information that must be considered in order to accurately and reliably measure biological samples. The book is not intended to be a lab manual of specific biomedical techniques, nor is it intended to provide extensive physiological or anatomical information. Rather, it takes the approach most useful for a non-specialist who seeks guidance on how and when to collect biological measures but who will have the actual samples assayed elsewhere. The Handbook can be thought of as a primer or a gateway book for researchers new to the area of physiological measurement and for readers who would like to better understand the meaning of physiological measures they encounter in research reports.

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.

Item Response Theory

Conception, Application and Further Reflections

The Logic of Causal Order

A Step-by-Step Guide to Exploratory Factor Analysis with R and RStudio

Measures of Personality and Social Psychological Attitudes

***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.***

***Scientific research uses concepts (or constructs) and requires means to measure them. Often latent, abstract and not directly observable, these concepts demand special attention. When facing problems related to their operationalization, considerable efforts are required to construe measures that effectively represent the phenomena studied. Measurement in Marketing presents a wide range of ideas to help researchers in the selection, design and validation of measurements of constructs. It analyzes the provisions that must be implemented to allow the transition from a latent conceptual construct to an operational level close to reality, and thus to make possible a fluid, reliable and valid reading of the phenomena observed. This instructive book guides readers through all stages of the implementation of a measure. It is intended for a wide audience, offering examples, summary tables and boxes in order to emphasize the primary information.***

***MPEG-7 is the first international standard which contains a number of key techniques from Computer Vision and Image Processing. The Curvature Scale Space technique was selected as a contour shape descriptor for MPEG-7 after substantial and comprehensive testing, which demonstrated the superior performance of the CSS-based descriptor. Curvature Scale Space Representation: Theory, Applications, and MPEG-7 Standardization is based on key publications***

on the CSS technique, as well as its multiple applications and generalizations. The goal was to ensure that the reader will have access to the most fundamental results concerning the CSS method in one volume. These results have been categorized into a number of chapters to reflect their focus as well as content. The book also includes a chapter on the development of the CSS technique within MPEG standardization, including details of the MPEG-7 testing and evaluation processes which led to the selection of the CSS shape descriptor for the standard. The book can be used as a supplementary textbook by any university or institution offering courses in computer and information science.

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.

*Fourth Edition*

*Scaling Procedures*

*Grid-Scale Energy Storage Systems and Applications*

*Design and Evaluation*

*Statistics As Principled Argument*

*Addiction Research Methods*

Since it was first published more than twenty-five years ago, Asking Questions has become a classic guide for designing questionnaires<sup>3/4</sup>the most widely used method for

collecting information about people's attitudes and behavior. An essential tool for market researchers, advertisers, pollsters, and social scientists, this thoroughly updated and definitive work combines time-proven techniques with the most current research, findings, and methods. The book presents a cognitive approach to questionnaire design and includes timely information on the Internet and electronic resources. Comprehensive and concise, *Asking Questions* can be used to design questionnaires for any subject area, whether administered by telephone, online, mail, in groups, or face-to-face. The book describes the design process from start to finish and is filled with illustrative examples from actual surveys.

*Scaling Procedures: Issues and Applications* examines the issues involved in developing and validating multi-item self-report scales of latent constructs. Distinguished researchers and award-winning educators Richard G. Netemeyer, William O. Bearden, and Subhash Sharma present a four-step approach for multi-indicator scale development. With these steps, the authors include relevant empirical examples and a review of the concepts of dimensionality, reliability, and validity. *Scaling Procedures: Issues and Applications* supplies cutting-edge strategies for developing and refining measures. Providing concise chapter introductions and summaries, as well as numerous tables, figures, and exhibits, the authors present recommended steps and overlapping activities in a logical, sequential progression.

*Questions as Measures An Overview Designing Questions to Gather Factual Data Questions to Measure Subjective States Some General Rules for Designing Good Survey Instruments Presurvey Evaluation of Questions Assessing the Validity of Survey Questions Question Design and Evaluation Issues in Perspective.*

A best-seller in its previous editions, *Scale Development: Theory and Applications, Third Edition* has been extensively updated and revised to address changes in the field and topics that have grown in importance. Widely adopted for graduate courses in departments such as Psychology, Public Health, Marketing, Nursing, and Education, this book will prove beneficial to applied researchers across the social sciences.

*Educational Measurement for Applied Researchers*

*Introduction to Psychometric Theory*

*Theory into Practice*

*Measurement in Marketing*

*The Definitive Guide to Questionnaire Design -- For Market Research, Political Polls, and Social and Health Questionnaires*

*Using R for Item Response Theory Model Applications*

The second edition of the *Impact Evaluation in Practice* handbook is a comprehensive and accessible introduction to impact evaluation for policy makers and development practitioners. First published in 2011, it has been used widely across the development and academic communities. The book incorporates real-world examples to present practical guidelines for designing and implementing impact evaluations. Readers will gain an understanding of impact evaluations and the best ways to use them to design evidence-based policies and programs. The updated version covers the newest techniques for evaluating programs and includes state-of-the-art implementation advice, as well as an expanded set of examples and case studies that draw on recent development challenges. It also includes new material on

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research ethics and partnerships to conduct impact evaluation. The handbook is divided into four sections: Part One discusses what to evaluate and why; Part Two presents the main impact evaluation methods; Part Three addresses how to manage impact evaluations; Part Four reviews impact evaluation sampling and data collection. Case studies illustrate different applications of impact evaluations. The book links to complementary instructional material available online, including an applied case as well as questions and answers. The updated second edition will be a valuable resource for the international development community, universities, and policy makers looking to build better evidence around what works in development.

Measurement Theory in Action, Third Edition, helps readers apply testing and measurement theories and features 22 self-contained modules which instructors can match to their courses. Each module features an overview of a measurement issue and a step-by-step application of that theory. Best Practices provide recommendations for ensuring the appropriate application of the theory. Practical Questions help students assess their understanding of the topic. Students can apply the material using real data in the Exercises, some of which require no computer access, while others involve the use of statistical software to solve the problem. Case Studies in each module depict typical dilemmas faced when applying measurement theory followed by Questions to Ponder to encourage critical examination of the issues noted in the cases. The book's website houses the data sets, additional exercises, PowerPoints, and more. Other features include suggested readings to further one's understanding of the topics, a glossary, and a comprehensive exercise in Appendix A that incorporates many of the steps in the development of a measure of typical performance. Updated throughout to reflect recent changes in the field, the new edition also features: Recent changes in understanding measurement, with over 50 new and updated references Explanations of why each chapter, article, or book in each module's Further Readings section is recommended Instructors will find suggested answers to the book's questions and exercises; detailed solutions to the exercises; test bank with 10 multiple choice and 5 short answer questions for each module; and PowerPoint slides. Students and instructors can access SPSS data sets; additional exercises; the glossary; and additional information helpful in understanding psychometric concepts. It is ideal as a text for any psychometrics or testing and measurement course taught in psychology, education, marketing, and management. It is also an invaluable reference for professional researchers in need of a quick refresher on applying measurement theory. Devising tests that evaluate a nation's educational standing and implement efficacious educational reforms requires a careful balance among the contributions of technology, psychometrics, test design, and the learning sciences. Unlike other forms of adaptive testing, multistage testing (MST) is highly suitable for testing educational achievement because it can be adapted to educational surveys and student testing. Computerized Multistage Testing: Theory and Applications covers the methodologies, underlying technology, and implementation aspects of this type of test design. The book discusses current scientific perspectives and practical considerations for each step involved in setting up an MST program. It covers the history of MST, test design and implementation for various purposes, item pool development and maintenance, IRT-based and classical test theory-based methodologies for test assembly, routing and scoring, equating, test security, and existing software. It also explores current research, existing operational programs, and innovative future assessments using MST. Intended for psychologists, social scientists, and educational measurement scientists, this volume provides the first unified source of information on the design, psychometrics, implementation, and operational use of MST. It shows how to apply theoretical statistical tools to testing in novel and useful ways. It also explains how to explicitly tie the assumptions made by each model to observable (or at least inferable) data conditions. Winner of the 2016 AERA Award for Significant Contribution to Educational

Measurement and Research Methodology The 2016 American Education Research Association (AERA) Div. D award committee for Significant Contributions to Educational Measurement and Research Methodology has recognized unanimously this collaborative work advancing the theory and applications of computerized MST. This annual award recognizes published research judged to represent a significant conceptual advancement in the theory and practice of educational measurement and/or educational research methodology. The 2016 award was made under the heading: Measurement, Psychometrics, and Assessment. This collective work, published in 2014 as an edited volume titled Computerized Multistage Testing: Theory and Applications, was cited by the committee both for the originality of the conceptual foundations presented in support of multistage testing and for arguing persuasively for its potential impact on the practice of educational measurement.

Designing and Conducting Health Surveys is written for students, teachers, researchers, and anyone who conducts health surveys. This third edition of the standard reference in the field draws heavily on the most recent methodological research on survey design and the rich storehouse of insights and implications provided by cognitive research on question and questionnaire design in particular. This important resource presents a total survey error framework that is a useful compass for charting the dangerous waters between systematic and random errors that inevitably accompany the survey design enterprise. In addition, three new studies based on national, international, and state and local surveys—the UNICEF Multiple Indicator Cluster Surveys, California Health Interview Survey, and National Dental Malpractice Survey—are detailed that illustrate the range of design alternatives available at each stage of developing a survey and provide a sound basis for choosing among them.

Survey Scales

A Practical Guide

Rasch Models for Solving Measurement Problems

Issues and Applications

Health Measurement Scales

Scale Development

***A new edition of this practical guide for clinicians who are developing tools to measure subjective states, attitudes, or non-tangible outcomes in their patients, suitable for those who have no knowledge of statistics.***

***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.*

*The design and evaluation of questionnaires—and of other written and oral materials—is a challenging endeavor, fraught with potential pitfalls. Cognitive Interviewing: A Tool for Improving Questionnaire Design describes a means of systematically developing survey questions through investigations that intensively probe the thought processes of individuals who are presented with those inquiries. The work provides general guidance about questionnaire design, development, and pre-testing sequence, with an emphasis on the cognitive interview. In particular, the book gives detailed instructions about the use of verbal probing techniques, and how one can elicit additional information from subjects about their thinking and about the manner in which they react to tested questions. These tools help researchers discover how well their questions are working, where they are failing, and determine what they can do to rectify the wide variety of problems that may surface while working with questionnaires.*

*Scale Development Theory and Applications SAGE Publications  
Curvature Scale Space Representation: Theory, Applications,  
and MPEG-7 Standardization*

*Theory and Applications*

*Measurement Theory and Applications for the Social Sciences  
Encyclopedia of Research Design*

*A Guide to Development, Analysis, and Reporting*

*Handbook of Physiological Research Methods in Health  
Psychology*

**This outstanding presentation of the fundamentals of multidimensional scaling illustrates the applicability of MDS to a wide variety of disciplines. The first two sections provide ground work in the history and theory of MDS. The final section applies MDS techniques to such diverse fields as physics, marketing, and political science.**

**Designated a Doody's Core Title! "This is a valuable resource for readers seeking basic to advanced information on measurement. It should be on the bookshelf of all researchers, and a requirement for graduate nursing students." Score: 100, 5 stars--Doody's Medical Reviews "...this book is a wonderful shelf reference for nurse researcher mentors and investigators who may need to explore content or use content to design, test, select, and evaluate instruments and methods used in measuring nurse concepts and outcomes."--Clinical Nurse Specialist This fourth edition presents**

everything nurses and health researchers need to know about designing, testing, selecting, and evaluating instruments and methods for measuring in nursing. Thoroughly updated, this fourth edition now contains only the latest, most cutting-edge measurement instruments that have direct applicability for nurses and health researchers in a variety of roles, including students, clinicians, educators, researchers, administrators, and consultants. Using clear and accessible language, the authors explain in detail, and illustrate by example, how to conduct sound measurement practices that have been adequately tested for reliability and validity. This edition is enriched with topics on the leading edge of nursing and health care research, such as measurement in the digital world, biomedical instrumentation, new clinical data collection methods, and methods for measuring quality of care. Key features: Provides new and emerging strategies for testing the validity of specific measures Discusses computer-based testing: the use of Internet research and data collection Investigates methods for measuring physiological variables using biomedical instrumentation Includes information on measurement practices in clinical research, focusing on clinical data collection methods, such as clinimetrics Identifies the challenges of measuring quality of care and how to address them

Written at a highly accessible level, *Scale Development* guides the reader through the identification of the latent variable, the generation of an item pool, the format of measurement and the optimization of the scale length. Background methods and theories are presented conceptually rather than mathematically so the reader can develop an intuitive grasp of the concepts.

*Addiction Research Methods* is a comprehensive handbook for health professionals, policy-makers and researchers working and training in the field of addiction. The book provides a clear, comprehensive and practical guide to research design, methods and analysis within the context of the field of alcohol and other drugs. The reader is introduced to fundamental principles and key issues; and is orientated to available sources of information and key literature. Written by a team of internationally acclaimed contributors, the book is divided into six major sections: Introduction; Research Design; Basic Toolbox; Biological Models; Specialist Methods; and Analytical Methods. Each chapter offers an introduction to the background and development of the discipline in question, its key features and applications, how it compares to other methods/analyses and its advantages and limitations. FEATURES List of useful websites and assistive technology. Case study examples List of useful hermeneutics Recommended reading list Contains exercises to help the reader to develop their skills.

**Multidimensional Item Response Theory**

**Cognitive Interviewing**  
**Designing and Conducting Health Surveys**  
**A Comprehensive Guide**  
**Human Scale Development**  
**Impact Evaluation in Practice, Second Edition**

In this illuminating volume, Robert P. Abelson delves into the too-often dismissed problems of interpreting quantitative data and then presenting them in the context of a coherent story about one's research. Unlike too many books on statistics, this is a remarkably engaging read, filled with fascinating real-life (and real-research) examples rather than with recipes for analysis. It will be of true interest and lasting value to beginning graduate students and seasoned researchers alike. The focus of the book is that the purpose of statistics is to organize a useful argument from quantitative evidence, using a form of principled rhetoric. Five criteria, described by the acronym MAGIC (magnitude, articulation, generality, interestingness, and credibility) are proposed as crucial features of a persuasive, principled argument. Particular statistical methods are discussed, with minimum use of formulas and heavy data sets. The ideas throughout the book revolve around elementary probability theory, t tests, and simple issues of research design. It is therefore assumed that the reader has already had some access to elementary statistics. Many examples are included to explain the connection of statistics to substantive claims about real phenomena.

Measures of Personality and Social Psychological Attitudes: Volume 1 in Measures of Social Psychological Attitudes Series provides a comprehensive guide to the most promising and useful measures of important social science concepts. This book is divided into 12 chapters and begins with a description of the Measures of Personality and Social Psychological Attitudes Project's background and the major criteria for scale construction. The subsequent chapters review measures of "response set"; the scales dealing with the most general affective states, including life satisfaction and happiness; and the measured of self-esteem. These topics are followed by discussions of measures of social anxiety, which is conceived a major inhibitor of social interaction, as well as the negative states of depression and loneliness. Other chapters examine the separate dimensions of alienation, the predictive value of interpersonal trust and attitudes in studies of occupational choice and racial attitude change, and the attitude scales related to locus of control. The final chapters look into the measures related to authoritarianism, androgyny, and values. This book is of great value to social and political scientists, psychologists, nurses, social workers, non-academic professionals, and students. 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.

A best-seller in its First Edition, *Scale Development: Theory and Applications*, Second Edition has been extensively updated and revised to address changes in the field and topics that have grown in importance since the First Edition. Widely adopted for graduate courses in departments such as Psychology, Public Health, Marketing, Nursing, and Education, this book will prove beneficial to applied researchers across the social sciences. New to the Second Edition are figures and practical tips for students, a new section on face validity (Chapter 4), a substantially expanded presentation of factor analysis (Chapter 6), a new chapter (7) on item response theory (IRT), coverage of qualitative procedures, and issues related to differential item functioning (Chapter 8).

Thematic Analysis

A Tool for Improving Questionnaire Design

Theory, Research and Applications

Computerized Multistage Testing

Interparental Conflict and Child Development

Asking Questions

In the Fourth Edition of *Scale Development*, Robert F. DeVellis demystifies measurement by emphasizing a logical rather than strictly mathematical understanding of concepts. The text supports readers in comprehending newer approaches to measurement, comparing them to classical approaches, and grasping more clearly the relative merits of each. This edition addresses new topics pertinent to modern measurement approaches and includes additional exercises and topics for class discussion. Available with Perusall—an eBook that makes it easier to prepare for class Perusall is an award-winning eBook platform featuring social annotation tools that allow students and instructors to collaboratively mark up and discuss their SAGE textbook. Backed by research and supported by technological innovations developed at Harvard University, this process of learning through collaborative annotation keeps your students engaged and makes teaching easier and more effective. Learn more.

This is a concise, easy to use, step-by-step guide for applied researchers conducting exploratory factor analysis (EFA) using the open source software R. In this book, Dr. Watkins systematically reviews each decision step in EFA with screen shots of R and RStudio code, and recommends evidence-based best

practice procedures. This is an eminently applied, practical approach with few or no formulas and is aimed at readers with little to no mathematical background. Dr. Watkins maintains an accessible tone throughout and uses minimal jargon and formula to help facilitate grasp of the key issues users will face while applying EFA, along with how to implement, interpret, and report results. Copious scholarly references and quotations are included to support the reader in responding to editorial reviews. This is a valuable resource for upper-level undergraduate and postgraduate students, as well as for more experienced researchers undertaking multivariate or structure equation modeling courses across the behavioral, medical, and social sciences.

"Comprising more than 500 entries, the Encyclopedia of Research Design explains how to make decisions about research design, undertake research projects in an ethical manner, interpret and draw valid inferences from data, and evaluate experiment design strategies and results. Two additional features carry this encyclopedia far above other works in the field: bibliographic entries devoted to significant articles in the history of research design and reviews of contemporary tools, such as software and statistical procedures, used to analyze results. It covers the spectrum of research design strategies, from material presented in introductory classes to topics necessary in graduate research; it addresses cross- and multidisciplinary research needs, with many examples drawn from the social and behavioral sciences, neurosciences, and biomedical and life sciences; it provides summaries of advantages and disadvantages of often-used strategies; and it uses hundreds of sample tables, figures, and equations based on real-life cases."--Publisher's description.