

***Statistics for Social and
Behavioral Sciences***

Wim J. van der Linden

**Linear Models for
Optimal Test
Design**

Linear Models For Optimal Test Design Statistics For Social And Behavioral Sciences

National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on Operational Test Design and Evaluation of the Interim Armored Vehicle

Linear Models For Optimal Test Design Statistics For Social And Behavioral Sciences:

Linear Models for Optimal Test Design Wim J. van der Linden, 2006-01-01 Over my nearly forty years of teaching and conducting research in the field of psychometric methods I have seen a number of major technical advances that respond to pressing educational and psychological measurement problems. The development of criterion referenced assessment was the first beginning in the late 1960s with the important work of Robert Glaser and Jim Popham in response to the need for assessments that considered candidate performance in relation to a well defined body of knowledge and skills rather than in relation to a norm group. The development of criterion referenced testing methodology with a focus on decision theoretic concepts and methods content validity standard setting and the recognition of the merits of both criterion norm referenced and criterion referenced assessments has tremendously influenced current test theory and testing. The second major advance was the introduction of item response theory (IRT) and associated models and their applications to replace classical test theory (CTT) and related practices. Beginning slowly in the 1940s and 1950s with the pioneering work of Frederic Lord, Allan Birnbaum and Georg Rasch, by the 1970s the measurement journals were full of important research studies describing new IRT models, technical advances in model parameter estimation and model fit, and research on applications of IRT models to equating, test development, the detection of potentially biased test items and adaptive testing. The overall goal has been to improve and expand measurement practices by overcoming several shortcomings of classical test theory: dependence of test item statistics and reliability estimates on examinee samples, dependence of examinee true score estimates on the particular choices of test items, and the limitation in CTT of modeling examinee performance at the test level rather than at the item level.

Quantitative Psychology Marie Wiberg, Dylan Molenaar, Jorge González, Ulf Böckenholt, Jee-Seon Kim, 2021-07-22 This proceedings volume highlights the latest research and developments in psychometrics and statistics. It represents selected and peer reviewed presentations given at the 85th Annual International Meeting of the Psychometric Society (IMPS) held virtually on July 13-17, 2020. 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 wide variety of topics including but not limited to item response theory, adaptive testing, Bayesian estimation, propensity scores and cognitive diagnostic models. This volume is the 9th in a series of recent works to cover research presented at the IMPS.

[Integrating Timing Considerations to Improve Testing Practices](#) Melissa J. Margolis, Richard A. Feinberg, 2020-06-03 Integrating Timing Considerations to Improve Testing Practices synthesizes a wealth of theory and research on time issues in assessment into actionable advice for test development, administration and scoring. One of the major advantages of computer based testing is the capability to passively record test taking metadata including how examinees use time and how time affects testing.

outcomes This has opened many questions for testing administrators Is there a trade off between speed and accuracy in test taking What considerations should influence equitable decisions about extended time accommodations How can test administrators use timing data to balance the costs and resulting validity of tests administered at commercial testing centers In this comprehensive volume experts in the field discuss the impact of timing considerations constraints and policies on valid score interpretations administrative accommodations test construction and examinees experiences and behaviors and how to implement the findings into practice These 12 chapters provide invaluable resources for testing professionals to better understand the inextricable links between effective time allocation and the purposes of high stakes testing The Open Access version of this book available at <http://www.taylorfrancis.com> has been made available under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license

Routledge Handbook of Higher Education for Sustainable Development Matthias Barth, Gerd Michelsen, Marco Rieckmann, Ian Thomas, 2015-10-08 The Routledge International Handbook of Higher Education for Sustainable Development gives a systematic and comprehensive overview of existing and upcoming research approaches for higher education for sustainable development It provides a unique resource for researchers engaged in the field of higher education for sustainable development by connecting theoretical aspects of the range of relevant methodologies showing the interdisciplinary aspects of the research field and illustrating the breadth of research directions With a team of international authors from leading universities in research and teaching in higher education for sustainable development this Handbook brings together a broad range of research approaches and shows how these approaches are reflected in the research practice in higher education for sustainable development Key topics include Research Paradigms and Methodologies Ongoing and Future Directions of Research Meta Analysis and Reviews Policy and Politics Challenges for Implementation Action Research and Transdisciplinary Perspective Gender Diversity and Post Colonial Perspectives Operationalising Competencies Outcome Oriented Research Curriculum Change Organisational Change and Organisational Learning Community and Partnerships University Appraisal Systems and Indicators Evaluation Approaches Engaging Academic Teachers Good Practice Learning and Teaching Transformative Leadership and Change Strategies This Handbook is an invaluable research and teaching tool for all those working in higher education for sustainable development

Statistical Methods for the Evaluation of Educational Services and Quality of Products Paola Monari, Matilde Bini, Domenico Piccolo, Luigi Salmaso, 2009-12-07 The book presents statistical methods and models that can usefully support the evaluation of educational services and quality of products The contributions collected in this book summarize the work of several researchers from the universities of Bologna Firenze Napoli and Padova The contributions are written with a consistent notation and a unified view and concern methodological advances developed mostly with reference to specific problems of evaluation using real data sets The evaluation of educational services as well as the analysis of judgements and preferences poses severe methodological challenges because of the presence of one or more of the following aspects the observational

non experimental nature of the context which is associated with the well known problems of selection bias and presence of nuisance factors the hierarchical structure of the data that entails correlated observations and consideration of effects at different levels of the hierarchy and their interactions multilevel analysis the multivariate and qualitative nature of the dependent variable that requires the use of ad hoc statistical methodologies the presence of non observable factors e.g. the satisfaction calling for the use of latent variables models the simultaneous presence of components of pleasure and components of uncertainty in the explication of the judgments that asks for the specification and estimation of mixture models The first part of the book deals with latent variable models

Artificial Intelligence in Education H. Chad Lane, Kalina Yacef, Jack Mostow, Philip Pavlik, 2013-06-22 This book constitutes the refereed proceedings of the 16th International Conference on Artificial Intelligence in Education AIED 2013 held in Memphis TN USA in July 2013 The 55 revised full papers presented together with 73 poster presentations were carefully reviewed and selected from a total of 168 submissions The papers are arranged in sessions on student modeling and personalization open learner modeling affective computing and engagement educational data mining learning together collaborative learning and social computing natural language processing pedagogical agents metacognition and self regulated learning feedback and scaffolding designed learning activities educational games and narrative and outreach and scaling up

Statistical Test Theory for the Behavioral Sciences Dato N. M. de Gruijter, Leo J. Th. van der Kamp, 2007-08-31 Since the development of the first intelligence test in the early 20th century educational and psychological tests have become important measurement techniques to quantify human behavior Focusing on this ubiquitous yet fruitful area of research Statistical Test Theory for the Behavioral Sciences provides both a broad overview and a

Introduction to Applied Bayesian Statistics and Estimation for Social Scientists Scott M. Lynch, 2007-06-30 Introduction to Applied Bayesian Statistics and Estimation for Social Scientists covers the complete process of Bayesian statistical analysis in great detail from the development of a model through the process of making statistical inference The key feature of this book is that it covers models that are most commonly used in social science research including the linear regression model generalized linear models hierarchical models and multivariate regression models and it thoroughly develops each real data example in painstaking detail The first part of the book provides a detailed introduction to mathematical statistics and the Bayesian approach to statistics as well as a thorough explanation of the rationale for using simulation methods to construct summaries of posterior distributions Markov chain Monte Carlo MCMC methods including the Gibbs sampler and the Metropolis Hastings algorithm are then introduced as general methods for simulating samples from distributions Extensive discussion of programming MCMC algorithms monitoring their performance and improving them is provided before turning to the larger examples involving real social science models and data

Introduction to Variance Estimation Kirk Wolter, 2007-08-13 We live in the information age Statistical surveys are used every day to determine or evaluate public policy and to make important business decisions Correct methods for

computing the precision of the survey data and for making inferences to the target population are absolutely essential to sound decision making Now in its second edition Introduction to Variance Estimation has for more than twenty years provided the definitive account of the theory and methods for correct precision calculations and inference including examples of modern complex surveys in which the methods have been used successfully The book provides instruction on the methods that are vital to data driven decision making in business government and academe It will appeal to survey statisticians and other scientists engaged in the planning and conduct of survey research and to those analyzing survey data and charged with extracting compelling information from such data It will appeal to graduate students and university faculty who are focused on the development of new theory and methods and on the evaluation of alternative methods Software developers concerned with creating the computer tools necessary to enable sound decision making will find it essential Prerequisites include knowledge of the theory and methods of mathematical statistics and graduate coursework in survey statistics Practical experience with real surveys is a plus and may be traded off against a portion of the requirement for graduate coursework This second edition reflects shifts in the theory and practice of sample surveys that have occurred since the content of the first edition solidified in the early 1980 s Additional replication type methods appeared during this period and have featured prominently in journal publications Reflecting these developments the second edition now includes a new major chapter on the bootstrap method of variance estimation This edition also includes extensive new material on Taylor series methods especially as they apply to newer methods of analysis such as logistic regression or the generalized regression estimator An introductory section on survey weighting has been added Sections on Hadamard matrices and computer software have been substantially scaled back Fresh material on these topics is now readily available on the Internet or from commercial sources Kirk Wolter is a Senior Fellow at NORC Director of the Center for Excellency in Survey Research and Professor in the Department of Statistics University of Chicago He is a Fellow of the American Statistical Association and a Member of the International Statistical Institute He is a past president of the International Association of Survey Statisticians and a past chair of the Survey Research Methods Section of the American Statistical Association During the last 35 years he has participated in the planning execution and analysis of large scale complex surveys and has provided instruction in survey statistics both in America and around the world

[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

Multivariate and Mixture Distribution Rasch

Models Matthias Davier, Claus H. Carstensen, 2007-12-15 This volume gathers together a set of extensions of the Rasch model one of the most prominent models for measurement in educational research and social science developed by Danish mathematician Georg Rasch The idea for this volume emerged during a meeting of the Psychometric Society in Monterey CA At that meeting friends and colleagues discussed news about the impending retirement of Dr Jurgen Rost an important innovator and mentor in this field To recognize Jurgen's contributions we decided to produce a collection of research on extending the Rasch model as well as embedding the Rasch model in more complex statistical models an area that is receiving broad interest in many fields of social sciences at the current time This collection contains 22 chapters by recognized international experts in the field The contributions cover topics ranging from general model extensions to application in fields as diverse as cognition personality organizational and sports psychology and health sciences and education The Rasch model is designed for categorical data often collected as examinee responses to multiple tasks such as cognitive items from psychological tests or from educational assessments The Rasch model's elegant mathematical form is suitable for extensions that allow for greater flexibility in handling complex samples of examinees and collections of tasks from different domains In these extensions the Rasch model is enhanced by additional structural elements that account either for differences between diverse populations or for differences among observed variables

Improved Operational Testing and Evaluation and

Methods of Combining Test Information for the Stryker Family of Vehicles and Related Army Systems National Research Council, Division of Behavioral and Social Sciences and Education, Committee on National Statistics, Panel on Operational Test Design and Evaluation of the Interim Armored Vehicle, 2004-01-29 The U S Army Test and Evaluation Command ATEC is responsible for the operational testing and evaluation of Army systems in development ATEC requested that the National Research Council form the Panel on Operational Test Design and Evaluation of the Interim Armored Vehicle Stryker The charge to this panel was to explore three issues concerning the IOT plans for the Stryker SBCT First the panel was asked to examine the measures selected to assess the performance and effectiveness of the Stryker SBCT in comparison both to requirements and to the baseline system Second the panel was asked to review the test design for the Stryker SBCT initial operational test to see whether it is consistent with best practices Third the panel was asked to identify the advantages and disadvantages of techniques for combining operational test data with data from other sources and types of use In a previous report appended to the current report the panel presented findings conclusions and recommendations pertaining to the first two issues measures of performance and effectiveness and test design In the current report the panel discusses techniques for combining information

Statistical Power Analysis for the Social and Behavioral Sciences

Xiaofeng Steven Liu, 2013-11-07 This is the first book to demonstrate the application of power analysis to the newer more advanced statistical techniques that are increasingly used in the social and behavioral sciences Both basic and advanced designs are covered Readers are shown how to apply power analysis to techniques such as hierarchical linear modeling meta analysis

and structural equation modeling Each chapter opens with a review of the statistical procedure and then proceeds to derive the power functions This is followed by examples that demonstrate how to produce power tables and charts The book clearly shows how to calculate power by providing open code for every design and procedure in R SAS and SPSS Readers can verify the power computation using the computer programs on the book's website There is a growing requirement to include power analysis to justify sample sizes in grant proposals Most chapters are self-standing and can be read in any order without much disruption This book will help readers do just that Sample computer code in R SPSS and SAS at www.routledge.com/9781848729810 are written to tabulate power values and produce power curves that can be included in a grant proposal Organized according to various techniques chapters 1-3 introduce the basics of statistical power and sample size issues including the historical origin hypothesis testing and the use of statistical power in t tests and confidence intervals Chapters 4-6 cover common statistical procedures analysis of variance linear regression both simple regression and multiple regression correlation analysis of covariance and multivariate analysis Chapters 7-11 review the new statistical procedures multi-level models meta-analysis structural equation models and longitudinal studies The appendixes contain a tutorial about R and show the statistical theory of power analysis Intended as a supplement for graduate courses on quantitative methods multivariate statistics hierarchical linear modeling HLM and/or multilevel modeling and SEM taught in psychology education human development nursing and social and life sciences this is the first text on statistical power for advanced procedures Researchers and practitioners in these fields also appreciate the book's unique coverage of the use of statistical power analysis to determine sample size in planning a study A prerequisite of basic through multivariate statistics is assumed

Handbook of Item Response Theory Wim J. van der Linden, 2018-02-19 Drawing on the work of 75 internationally acclaimed experts in the field Handbook of Item Response Theory Three Volume Set presents all major item response models classical and modern statistical tools used in item response theory IRT and major areas of applications of IRT in educational and psychological testing medical diagnosis of patient reported outcomes and marketing research It also covers CRAN packages WinBUGS Bilog MG Multilog Parscale IRTPRO Mplus GLLAMM Latent Gold and numerous other software tools A full update of editor Wim J van der Linden and Ronald K Hambleton's classic Handbook of Modern Item Response Theory this handbook has been expanded from 28 chapters to 85 chapters in three volumes The three volumes are thoroughly edited and cross-referenced with uniform notation format and pedagogical principles across all chapters Each chapter is self-contained and deals with the latest developments in IRT

Social Science Research Design and Statistics Alfred P. Rovai, Jason D. Baker, Michael K. Ponton, 2013-09-01 This book integrates social science research methods and the descriptions of over 40 univariate bivariate and multivariate tests to include a description of the purpose key assumptions and requirements example research question and null hypothesis SPSS procedures display and interpretation of SPSS output and what to report for each test It is classroom tested and current with IBM SPSS 22 This expanded second edition also features companion website

materials including copies of the IBM SPSS datasets used to create the SPSS output presented in the book and Microsoft PowerPoint presentations that display step by step instructions on how to run popular SPSS procedures Included throughout the book are various sidebars highlighting key points images and SPSS screenshots to assist understanding the material presented self test reviews at the end of each chapter a decision tree to facilitate identification of the proper statistical test examples of SPSS output with accompanying analysis and interpretations links to relevant web sites and a comprehensive glossary Underpinning all these features is a concise easy to understand explanation of the material

Linking and Aligning Scores and Scales Neil J. Dorans, Mary Pommerich, Paul W. Holland, 2007-10-15 In their preface to the second edition of Test Equating Scaling and Linking Mike Kolen and Bob Brennan 2004 made the following observation Prior to 1980 the subject of equating was ignored by most people in the measurement community except for psychometricians who had responsibility for equating p vii The authors went on to say that considerably more attention is now paid to equating indeed to all forms of linkages between tests and that this increased attention can be attributed to several factors 1 An increase in the number and variety of testing programs that use multiple forms and the recognition among professionals that these multiple forms need to be linked 2 Test developers and publishers in response to critics often refer to the role of linking in reporting scores 3 The accountability movement and fairness issues related to assessment have become much more visible Those of us who work in this field know that ensuring comparability of scores is not an easy thing to do Nonetheless our customers the test takers and score users either assume that scores on different forms of an assessment can be used interchangeably or like the critics above ask us to justify our comparability assumptions And they are right to do this After all the test scores that we provide have an impact on decisions that affect people's choices and their future plans From an ethical point of view we are obligated to get it right

Designing Experiments and Analyzing Data Scott E. Maxwell, Harold D. Delaney, Ken Kelley, 2017-09-11 Designing Experiments and Analyzing Data A Model Comparison Perspective 3rd edition offers an integrative conceptual framework for understanding experimental design and data analysis Maxwell Delaney and Kelley first apply fundamental principles to simple experimental designs followed by an application of the same principles to more complicated designs Their integrative conceptual framework better prepares readers to understand the logic behind a general strategy of data analysis that is appropriate for a wide variety of designs which allows for the introduction of more complex topics that are generally omitted from other books Numerous pedagogical features further facilitate understanding examples of published research demonstrate the applicability of each chapter's content flowcharts assist in choosing the most appropriate procedure end of chapter lists of important formulas highlight key ideas and assist readers in locating the initial presentation of equations useful programming code and tips are provided throughout the book and in associated resources available online and extensive sets of exercises help develop a deeper understanding of the subject Detailed solutions for some of the exercises and realistic data sets are included on the website

DesigningExperiments.com The pedagogical approach used throughout the book enables readers to gain an overview of experimental design from conceptualization of the research question to analysis of the data The book and its companion website with web apps tutorials and detailed code are ideal for students and researchers seeking the optimal way to design their studies and analyze the resulting data *Experimental Design: Procedures for the Behavioral Sciences* Roger E. Kirk, 2013 *Experimental Design Procedures for Behavioral Sciences* Fourth Edition is a classic text with a reputation for accessibility and readability It has been revised and updated to make learning design concepts even easier Roger E Kirk shows how three simple experimental designs can be combined to form a variety of complex designs He provides diagrams illustrating how subjects are assigned to treatments and treatment combinations New terms are emphasized in boldface type there are summaries of the advantages and disadvantages of each design and real life examples show how the designs are used The Development and Structure of Conscience Willem Koops, Daniel Brugman, Tamara J. Ferguson, Andries F. Sanders, 2009-10-16 International experts in the field contribute to this broad overview of the relevant research on the development of moral emotions and on the Kohlberian originated cognitive aspects of moral development **Applied Statistics: From Bivariate Through Multivariate Techniques** Rebecca M. Warner, 2013 Rebecca M Warner's *Applied Statistics From Bivariate Through Multivariate Techniques* Second Edition provides a clear introduction to widely used topics in bivariate and multivariate statistics including multiple regression discriminant analysis MANOVA factor analysis and binary logistic regression The approach is applied and does not require formal mathematics equations are accompanied by verbal explanations Students are asked to think about the meaning of equations Each chapter presents a complete empirical research example to illustrate the application of a specific method Although SPSS examples are used throughout the book the conceptual material will be helpful for users of different programs Each chapter has a glossary and comprehension questions

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