



Measurement Theory in Action

Case Studies and Exercises

Kenneth S. Shultz, David J. Whitney,
and Michael J. Zelenka

Third Edition



Measurement Theory In Action

R Sandford

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Measurement Theory in Action Kenneth S Shultz,David J. Whitney,Michael J Zickar,2013-11-20 This book helps readers apply testing and measurement theories. Featuring 22 self standing modules instructors can pick and choose the ones that are most appropriate for their course. 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 while the examples allow them to apply the material using real data. Two cases 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. Each module contains exercises some of which require no computer access while others involve the use of SPSS to solve the problem. The book's website houses the accompanying data sets and more. The book also features suggested readings a glossary of the key terms and a continuing exercise 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 A new co author Michael Zickar who updated the advanced topics and added the new module on generalizability theory. Module 22 Expanded coverage of reliability. Modules 5 detailed worked solutions to the exercises and PowerPoint slides. Students and instructors can access the SPSS data sets additional exercises the glossary and website references that are helpful in understanding psychometric concepts. Part 1 provides an introduction to measurement theory and specs for scaling and testing and a review of statistics. Part 2 then progresses through practical issues related to test reliability validation meta analysis and bias. Part 3 reviews practical issues related to test construction such as the development of measures of maximal performance CTT item analysis test scoring developing measures of typical performance and issues related to response styles and guessing. The book concludes with advanced topics such as multiple regression exploratory and confirmatory factor analysis item response theory IRT. IRT applications including computer adaptive testing and differential item functioning and generalizability theory. Ideal as a text for any psychometrics testing and measurement or multivariate statistics course taught in psychology education marketing and management professional researchers in need of a quick refresher on applying measurement theory will also find this an invaluable reference

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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.

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error Chapter 2 is devoted to the point and interval estimation of the population mean and standard deviation variance It also discusses the normal and uniform distributions the two most widely used distributions in measurement We give an overview of the basic rules for operating with means and variances of sums of random variables This information is particularly important for combining measurement results obtained from different sources There is a brief description of graphical tools for analyzing sample data This chapter also presents the round off rules for data presentation

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