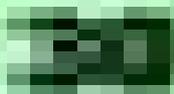


# TEST ITEM BIAS

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# Test Item Bias

**Yong Lin Moon**



## **Test Item Bias:**

**Test Item Bias** Steven J. Osterlind, 1983 A unique practical manual for identifying and analyzing item bias in standardized tests Osterlind discusses five strategies for detecting bias analysis of variance transformed item difficulties chi square item characteristic curve and distractor response He covers specific hypotheses under test for each technique as well as the capabilities and limitations of each strategy

**Methods for Identifying Biased Test Items** Gregory Camilli, Lorrie A. Shepard, 1994-04-06 This book is highly recommended for all involved in test development or who have any interest in the use of tests in education or in other fields The necessary mathematics are presented clearly but never obscure the important messages in the book It will certainly be referred to constantly in my future work in this area Educational Research The fundamental goal of the Measurement Methods for the Social Sciences series is to make complex measurement concepts topics and methods available to readers with limited mathematical background but a strong desire to understand as well as use methods that are on the forefront of social science assessment With this book on item bias detection methods Gregory Camilli and Lorrie Shepard have achieved this goal admirably from the Foreword by Richard M Jaeger What can item bias methods do and not do when applied to real test data Aimed at helping researchers understand how item bias methods work this book provides practical advice and specific details on the most useful methods for particular testing situations Beginning with a review of early bias methods and the fairness issues associated with the topic of test bias the authors explain the logic of each method in terms of how differential item functioning DIF is defined by the method and how well the method can be expected to work in various situations In addition chapters include a summary of findings regarding the behavior of the various indexes in empirical studies especially their reliability correlation with known bias criteria and correlations with other bias methods The book concludes with a set of principles for deciding when DIF should be interpreted as evidence of bias

*A Comparison of Three Methods of Detecting Test Item Bias* Linda Gokey Monaco, 1986 *Handbook of Methods for Detecting Test Bias* Ronald A. Berk, 1982 Collects humorous whimsical and strange stories that combine unusual subject matter with emotional expression and exhibit a broad diversity of form

**Test-item Bias** K. Owen, Human Sciences Research Council. Group: Education, 1992

**A Study of Test Item Bias in the Measurement of Moral Judgment Development** Yong Lin Moon, 1987

*A Comparison of Two Methods for Detecting Test Item Bias* Elaine Kopera, 1983

**Evaluation of a Regression Based Method for Studying Test Item Bias** Edward Michael Kulick, 1982

*A Procedure to Detect Test Bias Present Simultaneously in Several Items* Robin Shealy, 1991

**A Comparative Study of Recently Proposed Item Bias Detection Methods** Tae-Je Seong, 1986

**An Item Response Theory Model for Test Bias**, 1991 A multidimensional non parametric IRT model of test bias is presented providing an explanation of how individually biased items can combine through a test score to produce test bias The claim is thus that bias though expressed at the item level should be studied at the test level The model postulates an intended to be measured target ability and

nuisance determinants whose differing ability distributions across examinee group cause bias Multiple nuisance determinants can produce item bias cancellation resulting in little or no test bias Detection of test bias requires a valid subtest whose items measure only target ability A long test viewpoint of bias is also developed *Bias in Test Items* K. Owen, 1989-01-01 Sources of item bias located in characteristics of the test item were studied in a reasoning test developed in South Africa Subjects were 1 056 White 1 063 Indian and 1 093 Black students from standard 7 in Afrikaans and English schools Format and content of the 85 item Reasoning Test were manipulated to obtain information about bias or differential group achievement Bias indices were calculated by the Scheuneman technique and the three parameter logistical model The Junior Aptitude Tests the Raven Standard Progressive Matrices and a biographical questionnaire were used along with the Reasoning Test in this investigation Results suggest a distinction between true and apparent item bias True item bias included aspects such as language factors overly attractive distractors and a lack of the knowledge and concepts that are usually acquired informally Apparent bias a feature of the examinee s test behavior rather than of the item was indicated as a tendency to use associative rather than conceptual similarity in classification selective attention and an insufficiently logical approach Findings also suggest that 1 items in which a statement was made functioned less well than did other types 2 story type items led to poor performance 3 sayings were not suitable open item types 4 figures were superior to language in terms of content 5 figural analogies were superior to verbal analogies 6 series were better than analogies in terms of format and 7 syllogisms were not suitable item types Twenty seven tables and one figure contain study data SLD

**Developing and Validating Multiple-choice Test Items** Thomas M. Haladyna, 1994 This is the most current and comprehensive book devoted to item writing It addresses the related topics of multiple choice test item development and validation of responses to these test items two critical steps in the development of any cognitive test In so doing the volume provides a conceptual basis for item writing reviews the issue of constructed versus selected response testing presents a variety of formats provides guidance in developing items as well as a basis for reviewing evaluating and improving items and speculates about the future of item development and validation This book helps readers better understand the concepts principles and procedures available to build better test items that will lead to more reliable tests of ability and achievement *A Comparative Study of Three Item Bias Detection Techniques* Joanne Schateen Mack, 1982

**Detecting and Correcting Test Item Bias with a Logistic Response Model**, 1976 *Sex Bias in Testing* Carol K. Tittle, 1978 **Detection of Item Bias Using Analyses of Response Patterns** David L. McArthur, 1981 **The Effects of Deletion of Biased Items on Test Reliability and Validity** Elizabeth Kay Rengel, 1986 *Nonbiased Assessment* Daniel J. Reschly, 1980 *Sex Bias in College Admissions Tests* Phyllis Rosser, 1989

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