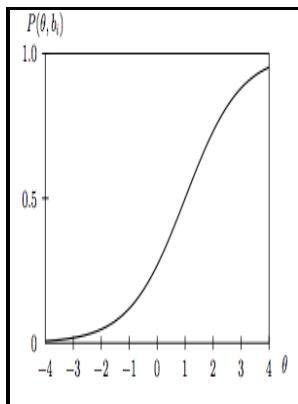


Fundamentals of item response theory

Sage Publications - Item Response Theory



Description: -

- Item response theoryFundamentals of item response theory
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- Measurement methods for the social sciences series ;Fundamentals of item response theory
Notes: Includes bibliographical references (p. 161-172) and index.
This edition was published in 1991



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Fundamentals of Item Response Theory

On an item characteristic curve, items that are difficult to endorse are shifted to the right of the scale, indicating the higher ability of the respondents who endorse it correctly, while those, which are easier, are more shifted to the left of the ability scale. Also, real life applications would probably have computers do the analysis and educators simply interpret the results, anyway. As respondents reply to an item by guessing, the amount of information provided by that item decreases and the information item function peaks at a lower level compared to other functions.

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However, the product is multiplied by the square of the discrimination parameter. While there are certainly quantitative examples and problems, the focus is on quantitative explanations and descriptions of the process to motivate the study in the first place. .

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It also provides a simple, yet effective overview of the basics of IRT models. The majority of practice was based upon the classical test theory classical test theory developed during the 1920s. The mathematical requirements are minimal.

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Furthermore, the probability of endorsing a correct response monotonically increases as the ability of the respondent becomes higher. A class would be sorted by their total score on a test, and then divided into halves, thirds, or quarters depending on the size of the class.

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Henceforth, the ICC of the different items can intersect and have different slopes. Comparison of CAT Item Selection Criteria for Polytomous Items. Upon completion of this book, the reader should be able to interpret test results that have been analyzed under item response theory by means of programs such as BICAL Wright and Mead, 1976; Mislevy and Bock, 1986.

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Recovery of Marginal Maximum Likelihood Estimates in the Two-Parameter Logistic Response Model: An Evaluation of MULTILOG. Item response theory also has a parameter called the difficulty parameter, but it has a definition which, while a little more complicated, has far more intuitive behaviour.

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