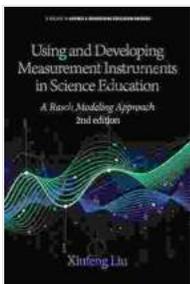


Rasch Modeling: An Essential Tool for Advancing Science and Engineering Education

Researchers in science and engineering education now have a powerful tool at their disposal with the release of the second edition of "Rasch Modeling: An and Applications in Science and Engineering Education." This comprehensive resource provides a thorough exploration of Rasch modeling, a robust statistical method that enables researchers to gain valuable insights into complex educational data.



Using and Developing Measurement Instruments in Science Education: A Rasch Modeling Approach 2nd Edition (Science & Engineering Education Sources)

by Xiufeng Liu

★★★★☆ 4 out of 5

Language : English
File size : 10625 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Word Wise : Enabled
Print length : 396 pages



What is Rasch Modeling?

Rasch modeling is a measurement model that assumes that the probability of an individual answering a question correctly is a function of their ability

and the difficulty of the question. It is a powerful tool for analyzing data on human performance, such as test scores, survey responses, and ratings.

Rasch modeling has a number of advantages over other statistical methods, including:

- It is a parametric model, which means that it makes assumptions about the distribution of the data. This allows for more powerful statistical tests and more precise estimates.
- It is a person-centered model, which means that it focuses on the individual rather than the group. This allows for a more detailed understanding of individual strengths and weaknesses.
- It is a unidimensional model, which means that it assumes that all of the items on a test or survey measure a single construct. This allows for a more straightforward interpretation of the results.

Applications of Rasch Modeling in Science and Engineering Education

Rasch modeling has a wide range of applications in science and engineering education, including:

- **Test development and validation:** Rasch modeling can be used to develop and validate tests and surveys to measure student learning. It can also be used to identify items that are biased or unfair.
- **Analysis of student responses:** Rasch modeling can be used to analyze student responses to open-ended questions and other qualitative data. This can provide valuable insights into student thinking and understanding.

- **Assessment of program effectiveness:** Rasch modeling can be used to assess the effectiveness of educational programs and interventions. It can also be used to identify areas where improvements can be made.

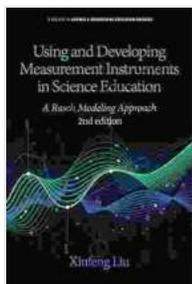
What's New in the Second Edition?

The second edition of "Rasch Modeling: An and Applications in Science and Engineering Education" has been extensively revised and updated to reflect the latest advances in Rasch modeling. Some of the new features include:

- **New content on the use of Rasch modeling for assessing program effectiveness**
- **New examples and case studies from science and engineering education**
- **Updated references and resources**

"Rasch Modeling: An and Applications in Science and Engineering Education" is an essential resource for researchers in these fields. This second edition provides a comprehensive overview of Rasch modeling and its applications. It is a must-have for anyone who wants to use Rasch modeling to improve their research.

To Free Download your copy of the second edition of "Rasch Modeling: An and Applications in Science and Engineering Education," please visit the publisher's website.



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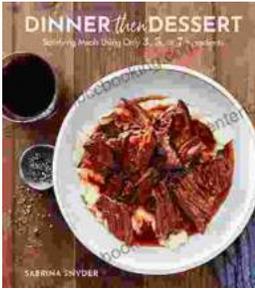
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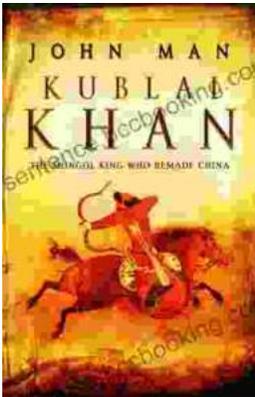
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