



# Statistical Analysis of Multiple Choice Testing

STATISTICAL DISSERTATIONS

Mark A. Colbert

# Statistical Analysis Of Multiple Choice Testing

**Yan Bai**



## **Statistical Analysis Of Multiple Choice Testing:**

**Statistical Analysis of Multiple Choice Testing** Mark A Colbert, 2025-05-22 The multiple choice question exam is a very popular method of evaluation used by educators everywhere The Air Command and Staff College Distance Learning Department uses multiple choice exams for testing non residence students ACSC currently uses the Test Analysis and Development TAD software program s two quantitative measurements Ease Index and Differentiation Index to flag possible problem questions for qualitative review They also use student feedback to flag questions for review ACSC uses the Maxwell Academic Instructor School s Test Item Analysis Handout to examine qualitatively the flagged questions to determine which need revision The purpose of this paper is to determine if the ACSC Distance Learning Department is doing a good job at test evaluation and whether there are better ways to determine the quality effectiveness and fairness of multiple choice questions This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant [Statistical Analysis of Multiple Choice Testing](#) ,2001 The multiple choice question exam is a very popular method of evaluation used by educators everywhere The Air Command and Staff College Distance Learning Department uses multiple choice exams for testing non residence students ACSC currently uses the Test Analysis and Development TAD software program s two quantitative measurements Ease Index and Differentiation Index to flag possible problem questions for qualitative review They also use student feedback to flag questions for review ACSC uses the Maxwell Academic Instructor School s Test Item Analysis Handout to examine qualitatively the flagged questions to determine which need revision The purpose of this paper is to determine if the ACSC Distance Learning Department is doing a good job at test evaluation and whether there are better ways to determine the quality effectiveness and fairness of multiple choice questions This paper compares the TAD program to the ITEMAN program for quantitative analysis For qualitative analysis prior studies and guidelines are compared to those used by AC SC This paper found that ACSC is doing a good job at test evaluation by using the best threshold values for the Ease Index and Differentiation Index to flag items This paper recommends that ACSC use the ITEMAN software program because of its ease speed and superior output This paper recommends that ACSC use the Biserial Correlation Coefficient as well to flag

questions Lastly this paper recommends that ACSC use Hansen and Dexter s Item writing Guidelines for qualitative review of flagged questions **Insights in Assessment, Testing, and Applied Measurement: 2022** Gavin T. L. Brown,2024-11-15

As we enter the third decade of the 21st century the field of education plays a more crucial role in understanding the contemporary world than ever before Analyzing the role of education in leading and driving change through policy practice and constant innovation for a more inclusive education whether it being educating students or teachers is crucial in the development of new and improved education systems worldwide To this end Frontiers in Education is organizing a series of Research Topics to highlight the latest advancements in the field This editorial initiative led by Dr Gavin Brown Specialty Chief Editor of the Assessment Testing and Applied Measurement section is focused on new insights novel developments current challenges recent advances and future perspectives in the field of assessment in education Resources in

Education ,1996-10 **Resources in Education** ,1996 **Crop Traits for Defense Against Pests and Disease:**

**Durability, Breakdown and Future Prospects, 2nd Edition** Alison J. Karley,Scott N. Johnson,Rex Brennan,Peter J. Gregory,2019-04-17 With global populations expected to exceed 9 2 billion by 2050 and available land and water resources devoted to crop production dwindling we face significant challenges to secure global food security Only 12 plant species feed 80% of the world s population with just three crop species wheat rice and maize accounting for food consumed by 50% of the global population Annual losses to crop pests and pathogens are significant thought to be equivalent to that required to feed a billion people at a time when crop productivity has plateaued With pesticide applications becoming increasingly unfeasible on cost efficacy and environmental grounds there is growing interest in exploiting plant resistance and tolerance traits for crop protection Indeed mankind has been selectively breeding plants for desirable traits for thousands of years However resistance and tolerance traits have not always been those most desired and in many cases have been inadvertently lost during the domestication process crops have been effectively disarmed by domestication Moreover mechanistic understanding of how resistance and tolerance traits operate is often incomplete which makes identifying the right combination for crop protection difficult We aimed to address this Research Topic by inviting authors to contribute their knowledge of appropriate resistance and tolerance traits explore what is known about durability and breakdown of defensive traits and finally asking what are the prospects for exploiting these traits for crop protection The research topic summarised in this book addresses some of the most important issues in the future sustainability of global crop production

Multiple-choice Testing Robert J. Weber,1976 **Practice for the Armed Forces Test** Solomon Wiener,1988 The best review and practice on the market today for the entrance and placement tests required by all branches of the armed forces

U.S. Government Research & Development Reports ,1970 **Statistical Methods for Students in Education** Karl John Holzinger,1928 **A Study of Introvert-extravert Responses to Certain Test Situations** Raymond Alfred Schwegler,1929 The Principles of Economics Course Phillip Saunders,1990 **ABCDE, Multiple-choice Questions**

Educational Testing Service, Educational Testing Service. Test Development Division, 1963      **New Public Personnel Studies** ,1930      Public Personnel Studies ,1926      *Library Journal* Melvil Dewey, Richard Rogers Bowker, L. Pylodet, Charles Ammi Cutter, Bertine Emma Weston, Karl Brown, Helen E. Wessells, 1926 Includes beginning Sept 15 1954 and on the 15th of each month Sept May a special section School library journal ISSN 0000 0035 called Junior libraries 1954 May 1961 Also issued separately      **Second Language Instruction/acquisition Abstracts** ,1997      **Encyclopedia of Measurement and Statistics** Neil J. Salkind, 2007 Publisher Description      Selected References on Test Construction, Mental Test Theory and Statistics, 1929-1949 Howard W. Goheen, United States Civil Service Commission, Samuel Kavruck, 1950      **Current Index to Statistics, Applications, Methods and Theory** ,1994 The Current Index to Statistics CIS is a bibliographic index of publications in statistics probability and related fields

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