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Edition by Wim J. van  
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adaptive testing as  
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ability estimation,  
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multidimensional abilities, sequencing adaptive test batteries, multistage adaptive testing, item-pool design and maintenance, estimation of item and item-family parameters, item and person fit, as well as adaptive mastery and classification testing.

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This book covers such key features of adaptive testing as item selection and ability estimation, adaptive testing with multidimensional abilities, sequencing adaptive test batteries, multistage adaptive testing, item-pool design and maintenance, estimation of item and item-family parameters, item and person fit, as well as

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the computer in  
educational and  
psychological testing  
has led to the current  
popularity of adaptive

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format in which the  
computer uses  
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Classical methods of  
score equating that  
have been used in  
adaptive testing are  
equipercentile  
equating with  
randomly equivalent

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groups of subjects and  
true-score equating

using the test

characteristic function

(for a description of  
these methods, see

Kolen and Brennan,

2004). The first method

requires an equating

study in which the

population distributions

of the scores on the

two tests are to be

estimated.

**25 Statistical**

**Aspects of Adaptive**

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**Testing -**  
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Adaptive testing or computer-adaptive testing (CAT) is a method for administering tests that dynamically adapts to the examinee's performance level, varying the difficulty of presented items according to the examinees previous answers. For this reason, it has also

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been called tailored testing.

## **Adaptive testing | Psychology Wiki | Fandom**

Computerized adaptive testing (CAT) is a form of computer-based test that adapts to the examinee's ability level. For this reason, it has also been called tailored testing. In other words, it is a form of computer-administered test in which the next

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item or set of items selected to be administered depends on the correctness of the test taker's responses to the most recent items administered.

**Computerized adaptive testing - Wikipedia**

Higher-level items often involve "item cloning" are test items designed to measure the exact same

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construct but with the substitution of random elements (names, locations, etc.). Item cloning generates item pools so examiners have more questions resulting in more cost-effective implementation of computerized adaptive testing.

**Models Of Online Assessment, Part 1: Computer Adaptive Testing**

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The Elements of  
Statistical Learning:  
Data Mining, Inference,  
and Prediction. Second  
Edition February 2009

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data mining,  
inference ...**

Adaptive testing has  
raised its own set of  
challenges; one that  
has received attention  
from researchers  
throughout the world is  
so-called exposure

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control, which refers to the fact that items in ...

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In computerized adaptive testing (CAT) items are matched optimally to the targeted distress level of respondents instead of relying on fixed-length versions of instruments. We therefore calibrate

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GHQ-30 items and report a simulation study exploring the potential of this instrument for adaptive administration in a longitudinal setting.

## **Computerized adaptive testing of population psychological ...**

Avoiding double-testing: To avoid double-testing of students, the Department will offer

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No Child Left Behind's

requirement that all

8th graders be tested

on the same, statewide

8th grade math and

reading tests, when

such students are

taking advanced high-

school level

coursework in 8th

grade (as long as those

students ...

**Fact Sheet: Testing**

**Action Plan | U.S.**

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Adaptive management is a systematic approach ... Improved clarity about key elements in a decision making process can help decision makers focus attention on what, why, and how actions will be taken. ... the testing of underlying model assumptions against monitoring data provides the foundation for learning

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**Chapter 1: What is  
Adaptive  
Management?**  
Adaptive

randomization design.  
An adaptive  
randomization design  
is a design that allows  
modification of  
randomization  
schedules based on  
varied and/or unequal  
probabilities of  
treatment assignment  
in order to increase the

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probability of success  
(Figure (Figure1) 1)

[See Additional file  
1]. Commonly applied  
adaptive randomization  
procedures include  
treatment-adaptive  
randomization [3,4 ...

## **Adaptive design methods in clinical trials - a review**

However, the  
development of an  
adaptive test is a very  
complex process that  
requires substantial

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expertise in item response theory (IRT) and CAT simulation research. Our Ph.D. psychometricians can provide your organization with the requisite experience to implement adaptive testing and help your organization benefit from these advantages.

**What is  
computerized  
adaptive testing? -**

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**Assessment ...**

van der Linden / Glas,  
Elements of Adaptive  
Testing, 2012, Buch,  
978-1-4614-2553-3.

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portofrei

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Glas | Elements of  
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2012**

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important contribution  
to the growing  
literature on causal

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analysis. This lucid monograph elegantly weaves together statistics, machine learning, and causality to provide a holistic picture of how we and machines can use data to understand the world.

**Elements of Causal Inference | The MIT Press**

Automatic Item Generation (AIG), or Automated Item

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Generation, is a process linking psychometrics with computer programming. It uses a computer algorithm to automatically create test items that are the basic building blocks of a psychological test. The method was first described by John R. Bormuth in the 1960s but was not developed until recently. AIG uses a two-step process: first,

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