

Suggested readings related to educational and psychological measurement issues

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The following list of resources is intended to provide further reading for individuals interested in learning more about the areas of test development, educational and psychological measurement theory, cheater detection, and other assessment related topics.

Item and test development/evaluation

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| Aiken, L. R. (1998). <i>Tests and examinations: Measuring abilities and performance</i> . New York: Wiley. | An accessible overview of the area of educational measurement |
| Haladyna, T. M. (1994). <i>Developing and Validating Multiple-Choice Test Items</i> . Hillsdale, NJ: Lawrence Erlbaum Associates. | An accessible look at the development and validation of assessment items |
| Haladyna, T. M. (1996). <i>Writing test items to evaluate higher order thinking</i> . Needham Heights, MA: Allyn & Bacon. | An accessible and practical review of item writing methods |
| Kline, P. (1986). <i>A Handbook of Test Construction: Introduction to Psychometric Design</i> . London: Methuen. | For the moderate to advanced user; an excellent introduction to psychometrics |
| Osterlind, S. J. (1998). <i>Constructing test items: Multiple-choice, constructed-response, performance, and other formats</i> (2nd ed). New York, NY: Kluwer. | An accessible and practical review of item formats and writing methods |

Classical test theory

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| Crocker, L. & Algina, J. (1986). <i>Introduction to classical and modern test theory</i> . Forth Worth, TX: Harcourt Brace Jovanovich College Publishers. | For the moderate to advanced user; an excellent introduction to classical test theory |
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Item response theory

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| Hambleton, R.K., & Swaminathan, H. (1985). <i>Item response theory</i> . Boston, MA: Kluwer-Nijhoff. | For the advanced user; an excellent review of item |
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Hambleton, R.K., Swaminathan, H., & Rogers, H.J. (1991). *Fundamentals of item response theory*. Newbury Park, CA: Sage.

response theory
An accessible and very well-written primer on the topic of item response theory

Lord, F.M. (1980). *Applications of item response theory to practical testing problems*. Hillsdale, NJ: Erlbaum.

Considered the bible on the topic of item response theory; this is an advanced text

Psychometric theory

Nunnally, J. C. & Bernstein, I. H. (1994). *Psychometric theory*. (3rd ed.). New York: McGraw-Hill.

A very detailed and thorough exploration of the area of psychometric theory

Laveault, D., Zumbo, B. D., Gessaroli, M. E., & Boss, M. (Eds.) (1994). *Modern theories of measurement: Problems & issues*. Ottawa, ON: University of Ottawa.

An excellent text on various topics of measurement theory with practical applications

Osterlind, S. J. (2003). *Modern psychometrics: Development & application of modern mental measures*. New York, NY: Prentice-Hall.

A detailed text that explores many topics in the area of psychometric and test development

Testing guidelines and standards

American Educational Research Association, the American Psychological Association, and the National Council on Measurement in Education (1999). *Standards for educational and psychological testing*. Washington, DC: American Educational Research Association.

Considered the bible of standards for standardized testing

American Council on Education (1995). *Guidelines for Computerized Adaptive Test Development and Use in Education*. Washington, D.C.: American Council on Education.

A must for any individual or organization exploring computerized adaptive testing (CAT) initiatives

Association of Test Publishers (2000). *Guidelines for Computer-Based Testing*. Washington, D.C.: Association of Test Publishers.

A must for any individual or organization interested in computer-based assessment

Computerized adaptive testing

Mills, C. N., Potenza, M. T., Fremer, J. J., & Ward, W. C. (Eds.) (2002). *Computer-based testing: Building the foundation for future assessments*. Mahwah, NJ: Erlbaum.

A thorough review of the area of computerized adaptive testing (CAT)

Sands, W. A., Waters, B. K., & McBride, J. R. (Eds.) (1997). *Computerized adaptive testing: From inquiry to operation*. Washington, DC: American Psychological Association.

Using examples from established CAT systems, this is an excellent text on the topic

Van der Linden, W. J., & Glas, C. A. W. (Eds.). (2000). *Computerized adaptive testing: Theory and practice*. Boston: Kluwer Academic Publishers.

A more advanced text on the topic that provides very thorough coverage of the topic

Wainer, H., Dorans, N., Flaugher, R., Eignor, D., Green, B., Mislevy, R., Steinberg, L., & Thissen, D. (Eds.). (2000). *Computerized adaptive testing: A primer* (2nd Ed.). Hillsdale, NJ: Lawrence Erlbaum Associates.

A well-written, thorough, and informative text on the topic that is easily understood

Standard setting methods

Cizek, G. (Ed.). (2001). *Setting performance standards: Concepts, methods, and perspectives*. Mahwah, NJ: Lawrence Erlbaum Publishers.

A very accessible and well-written text on the topic of standard setting

Specific psychometric topics

Kolen, M. J., & Brennan, R. L. (2004). *Test Equating, Scaling, and Linking: Methods and Practices*. New York: Springer.

A text for advanced users; considered the bible on the topic of test equating

Holland, P. W., & Wainer, H. (1993). *Differential item functioning*. Hillsdale, NJ: Lawrence Erlbaum Associates.

An advanced text that provides a thorough review of differential item functioning (DIF) methods

Osterlind, S. (1983). *Test item bias*. Newbury Park, CA: Sage.

An accessible text on the topic of DIF methods and evaluating item bias

Cheating on tests

Cizek, G. J. (1999). *Cheating of Tests, How to Do It, Detect It, and Prevent It*. Mahwah, NJ: Lawrence Erlbaum Associates.

The authoritative source of information on academic integrity in testing

Cizek, G. J. (2003). *Detecting and Preventing Classroom Cheating: Promoting integrity in assessment*. Thousand Oaks, CA: Corwin Press.

A well-written practical guide to learning more about cheating