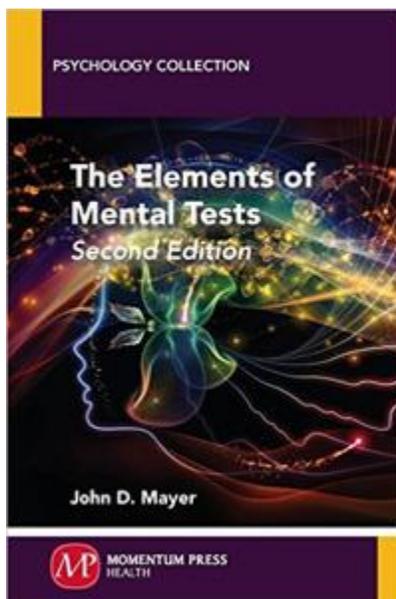# The Elements of Mental Tests, Second Edition

Friday, January 1, 2016

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by John D. Mayer
Momentum Press (January 1, 2016)

"The Elements of Mental Tests" provides an introduction to mental testing and the use of psychological and educational measures. Part I: The Elements of Measurement introduces the types of educational and psychological tests commonly in use, the test data those measures collect, and the types of test items that make up a test. Part II: The Elements of Test Scores introduces the mathematical models that professionals use to represent test-takers' answers to test questions. Part II begins with a review of basic statistics particularly relevant to measurement, including the conversion of test scores to z-scores and the use of correlation coefficients to relate test items and tests to one another. Part II continues with an integrated introduction to both Classical Test Theory and Item Response Theory-the most influential methods for understanding tests in use today. Part III: The Elements of Test Quality examines the standards of good testing including a test's reliability and its precision of measurement, the evaluation of test

validity, and the features of a good test administration. Altogether, the book provides a comprehensive foundation for readers who are interested in tests, in testing, and in their use in contemporary life.

- WRITTEN BY:

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