

REFERENCES

- American Psychological Association (1985). *Standards for Educational and Psychological Testing*. Washington, DC: Author.
- Andersen, E. B. (1977). Sufficient statistics and latent trait models. *Psychometrika*, 42, 69-81.
- Andrich, D. (1982). An index of person separation in latent trait theory, the traditional KR20 index and the Guttman scale response pattern. *Education Research and Perspectives*, 9(1), 95-104.
- Bechtoldt, H. (1959). Construct validity: A critique. *American Psychologist*, 14, 619-629.
- Beck, L. (1950). Construction and inferred entities. In H. Feigl and M. Brodbeck (Eds.) *Readings in the Philosophy of Science*, (1953), 262-287. New York: Appleton-Century-Crofts.
- Binet, A. & Simon, T. (1911). *A Method of Measuring the Development of the Intelligence of Young Children*. Lincoln, IL: Courier.
- Binet, A. & Simon, T. (1916). The development of intelligence in children. (*Translations of articles in L'Annee Psychologique*, 1905, 1908, and 1911.) Vineland, NJ: Vineland Training School.
- Boring, E. G. (1950). *A history of experimental psychology*. New York: Appleton-Century-Crofts.
- Bradley, R. A. & Terry, M. E. (1952). Rank analysis of incomplete block designs I: The method of paired comparisons. *Biometrika*, 39, 324-345.
- Brogden, H. E. (1977). The Rasch model, the law of comparative judgment and additive conjoint measurement. *Psychometrika*, 42, 631-634.
- Campbell, D. & Fiske, D. (1959). Convergent and discriminant validation by the multitrait-multimethod matrix. *Psychological Bulletin*, 56, 81-105.
- Campbell, N. R. (1920). *Physics: The Elements*. London: Cambridge University Press.
- Choppin, B. (1968). An item bank using sample-free calibration. *Nature*, 42, 631-634.
- Choppin B. (1976). Recent developments in item banking. *Advances in Psychological and Educational Measurement*. New York: Wiley.
- Choppin, B. (1978). Item banking and the monitoring of achievement. (*Research in progress Series No. 1.*) Slough, England: National Foundation for Educational Research.
- Choppin, B. (1981). Educational measurement and the item bank model. In C. Lacey & D. Lawton (Eds.), *Issues in evaluation and accountability*. London.
- Cronbach, L. & Meehl, P. (1955). Construct validity in psychological tests. *Psychological Bulletin*, 52, 281-302.

- Fischer, G. (1968). *Psychologische Test Theorie*. Bern: Huber.
- Fisher, R. A. (1921). On the mathematical foundations of theoretical statistics. *Philosophical Transactions of the Royal Society of London, A*, ccxxii, 309-368.
- Fisher, R. A. (1925). *Statistical Methods for Research Workers*. Edinburgh: Oliver & Boyd.
- Fisher, R. A. (1934). Theory of statistical estimation. *Proceedings of the Cambridge Philosophical Society*, xxii, 700-725.
- Fisher, R. A. (1935). *The Design of Experiments*. New York: Hafner.
- Fisher, R. (1958). *Statistical Methods for Research Workers, 13th Edition*. New York: Hafner (First published in 1925).
- Gould, J. G. (1981). *The Mismeasure of Man*. New York: Norton.
- Guilford, J. P. (1954). *Psychometric Methods*. New York: McGraw-Hill.
- Guttman, L. L. (1944). A basis for scoring qualitative data. *American Sociological Review*, 9, 139-144.
- Guttman, L. L. (1950). The basis for scalogram analysis. In Stouffer et al. (Eds.), *Measurement and Prediction*. New York: Wiley.
- Hambleton, R. K. (1983). *Applications of Item Response Theory*. Vancouver, BC: Educational Research Institute of British Columbia.
- Hoyt, C. (1941). Test reliability by analysis of variance. *Psychometrika*, 6(3), 153-160.
- Hulin, C. L., Drasgow, F. & Parsons, C. K. (1983). *Item Response Theory*. Homewood, IL: Dow Jones-Irvin.
- Keats, J. A. (1967). Test theory. *Annual Review of Psychology*, 18, 217-238.
- Keats, J. A. (1971). *An Introduction to Quantitative Psychology*. Sydney: John Wiley.
- Kruskal, J. B. (1964). Multidimensional scaling by optimizing goodness-of-fit to a nonmetric hypothesis. *Psychometrika*, 29, 1-27.
- Kruskal, J. B. (1965). Analysis of factorial experiments by estimating monotone transformations of the data. *Journal of the Royal Statistical Society (Series B)*, 27, 251-263.
- Likert, R. (1932). A technique for the measurement of attitudes. *Archives of Psychology*, 22, No. 140.
- Loevinger, J. (1947). A systematic approach to the construction and evaluation of tests of ability.

- Loevinger, J. (1965). Person and population as psychometric concepts. *Psychological Review*, 72, 143-155.
- Luce, R. D. & Tukey, J. W. (1964). Simultaneous conjoint measurement: A new type of fundamental measurement. *Journal of Mathematical Psychology*, 1, 1-27.
- Perline, R., Wright, B. D. & Wainer, H. (1979). The Rasch model as additive conjoint measurement. *Applied Psychological Measurement*, 3, 327-256.
- Rasch, G. (1958). *On Applying a General Measuring Theory of Bridge Building Between Similar Psychological Tests*. Copenhagen: Danmarks Paedagogiske Institute.
- Rasch, G. (1960/1980). *Probabilistic Models for Some Intelligence and Attainment Tests*. Chicago: University of Chicago Press. (Original work published 1960.)
- Rasch, G. (1961). On general laws and the meaning of measurement in psychology. *Proceedings of the Fourth Berkeley Symposium on Mathematical Statistics and Probability*, 321-333.
- Rasch, G. (1966a). An individualistic approach to item analysis. In P. F. Lazarsfeld & N. W. Henry (Eds.), *Readings in Mathematical Social Science*. Chicago: Science Research Associates.
- Rasch, G. (1966b). An item analysis which takes individual differences into account. *British Journal of Mathematical and Statistical Psychology*, 19, 49-57.
- Rasch, G. (1967). An informal report on the present state of a theory of objectivity in comparisons. In L. J. van der Kamp & C. A. J. Vieck (Eds.), *Proceedings of the NUFFIC International Summer Session in Science at "Het Oude Hof."* Leiden.
- Rasch, G. (1968). *A mathematical theory of objectivity and its consequences for model construction*. In Report from European Meeting on Statistics, Econometrics and Management Sciences: Amsterdam.
- Rasch, G. (1977). On specific objectivity: An attempt at formalizing the request for generality and validity of scientific statements. *Danish Yearbook of Philosophy*, 14, 58-94.
- Rasch, G. (1993). *Probabilistic models for some intelligence and attainment tests*. Chicago: MESA Press. (Original work published in 1960.)
- Smith, R. M. (1982). *Detecting measurement disturbance with the Rasch model*. Unpublished doctoral dissertation, University of Chicago.
- Stevens, S. S. (1957). On the psychophysical law. *Psychological Review*, 64(3), May.
- Stocking, M. L. (1989). *Empirical estimation errors in item response theory as a function of test properties*. Research Report. Princeton, NJ: Educational Testing Service.

- Thorndike, E. L. et al. (1926). *The Measurement of Intelligence*. New York: Teachers College Press.
- Thurstone, L. L. (1926). The scoring of individual performance. *Journal of Educational Psychology*, 17, 445-457.
- Thurstone, L. L. (1927). A law of comparative judgment. *Psychological Review*, 34, 273-286.
- Thurstone, L. L. (1927). A mental unit of measurement. *Psychological Review*, 34, 415-423.
- Thurstone, L. L. (1928a). Attitudes can be measured. *American Journal of Sociology*, 33, 529-554.
- Thurstone, L. L. (1928b). The measurement of opinion. *Journal of Abnormal and Social Psychology*, 22, 415-430.
- Thurstone, L. L. (1928c). Theory of aptitude measurement. *Psychological Review*, 22, 415-430.
- Thurstone, L. L. (1929). Theory of attitude measurement. *Psychological Review*, 36, 222-241.
- Thurstone, L. L. (1931). Measurement of social attitudes. *Journal of Abnormal and Social Psychology*, 26, 249-269.
- Thurstone, L. L. & Chave, E. J. (1929). *The measurement of attitude*. Chicago: University of Chicago Press.
- Thurstone, L. M. (1926). The scoring of individual performance. *Journal of Educational Psychology*, 17, 446-457.
- Thurstone, L. M. (1928). Theory of aptitude measurement. *Psychological Review*, 22, 415-430.
- Tucker, L. (1953). Scales minimizing the importance of reference groups. In *Proceedings of the 1952 Invitational Conference on Testing Problems*. Princeton, NJ: Educational Testing Service.
- Wilkinson, G. S. (1993). *WRAT3 Administration Manual*. Wilmington, DE: Wide Range, Inc.
- Wolpe, J. & Lange, P. (1969). *Fear Survey Schedule*. San Diego, CA: Educational and Industrial Testing Service.
- Wright, B. D. (1968). Sample-free test calibration and person measurement. In *Proceedings of the 1967 Invitational Conference of Testing Problems*. Princeton, NJ: Educational Testing Service.
- Wright, B. D. (1977). Solving measurement problems with the Rasch model. *Journal of Educational Measurement*, 14(2), 97-116.
- Wright, B. D. (1984). Despair and hope for educational measurement. *Contemporary Education Review*, 3, 281-288.

- Wright, B. D. (1988). The efficacy of unconditional maximum likelihood bias correction. *Applied Psychological Measurement*, 12, 314-318.
- Wright, B. D. & Bell, S. R. (1984). Item banks: What, why, how. *Journal of Educational Measurement*, 21(4), 331-345.
- Wright, B. D. & Douglas, G. A. (1975). *Best Test Design and Self-Tailored Testing*. Research Memorandum No. 19. Statistical Laboratory, Department of Education: University of Chicago.
- Wright, B. D. & Douglas, G. (1977a). Best procedures for sample-free item analysis. *Applied Psychological Measurement*, 1, 281-294.
- Wright, B. D. & Douglas, G. (1977b). Conditional versus unconditional procedures for sample free analysis. *Educational and Psychological Measurement*, 37, 573-586.
- Wright, B. D. & Linacre, J. M. (1991). *BIGSTEPS*. Chicago: MESA Press.
- Wright, B. D. & Linacre, J. M. (1991). *SAMS*. Chicago: MESA Press.
- Wright, B. D. & Linacre, J. M. (1992). *A User's Guide to BIGSTEPS*. Chicago: MESA Press.
- Wright, B. D. & Masters, J. (1982). *Rating Scale Analysis*. Chicago: MESA Press.
- Wright, B. D. & Mead, R. J. (1976). *BICAL*. Chicago: MESA Press.
- Wright, B. D., Mead, R., & Bell, S. (1976). *BICAL: Calibrating items with the Rasch model*. Memorandum No. 23. Statistical Laboratory, Department of Education: University of Chicago.
- Wright, B. D. & Panchapakesan, N. A. (1969). A procedure for sample-free item analysis. *Educational and Psychological Measurement*, 29, 23-48.
- Wright, B. D. & Stone, M. H. (1979). *Best Test Design*. Chicago: Mesa Press.

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