Appendix 13

The Coefficient of the reliability

The coefficient of the reliability the first and second half group:

\[ r_1 = \frac{\sum X}{\sqrt{\sum X^2 \sum Y^2}} \]

\[ r_1 = \frac{4636}{\sqrt{5571 \times 3998}} \]

\[ r_1 = \frac{4636}{\sqrt{22272858}} \]

\[ r_1 = \frac{4636}{47194.41} \]

\[ r_1 = 0.98 \]

The coefficient correlation of the whole items:

\[ r = \frac{2r_1}{1 + r_1} \]

\[ r = \frac{2 \times 0.98}{1 + 0.98} \]

\[ r = \frac{1.96}{1.98} \]

\[ r = 0.98 \]