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y_{ij} i-inci sistematik örneklerin j-inci ve y_{iu} da u-uncu birim çiftleri için,

$$\rho_{ij} = \frac{E(y_{ij} - \bar{Y})(y_{iu} - \bar{Y})}{\sqrt{E(y_{ij} - \bar{Y})^2 E(y_{ij} - \bar{Y})^2}} = \frac{E(y_{ij} - \bar{Y})(y_{iu} - \bar{Y})}{E(y_{ij} - \bar{Y})^2}$$

$$\rho_{ij} = \frac{2 \sum_{i=1}^k \sum_{j < u} (y_{ij} - \bar{Y})(y_{iu} - \bar{Y})}{(N-1)(n-1)S^2}$$