

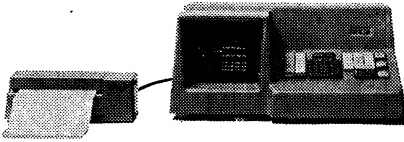
LINEAR CORRELATION AND STANDARD DEVIATION

$$\sigma_x = \sqrt{\frac{\sum(x^2)}{n} - \left(\frac{\sum x}{n}\right)^2}$$

$$\sigma_y = \sqrt{\frac{\sum(y^2)}{n} - \left(\frac{\sum y}{n}\right)^2}$$

$$r = \frac{n\sum xy - \sum x \sum y}{\sqrt{[n\sum(x)^2 - (\sum x)^2][n\sum(y)^2 - (\sum y)^2]}}$$

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