



## **ON THE UTILIZATION OF KNOWN COEFFICIENT OF VARIATION AND PRELIMINARY TEST OF SIGNIFICANCE IN THE ESTIMATION OF POPULATION MEAN**

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**Abstract :** In this paper, it is shown that an estimator of the population mean using known coefficient of variation and a preliminary test of significance for the variance  $\sigma_y^2 = \sigma_0^2$  is found to be better than the usual regression estimator.

**Key words :** Bias, Coefficient of variation, Mean square error, Population mean