

ON OPTIMUM STRATIFICATION FOR TWO SENSITIVE VARIABLES

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ABSTRACT

This paper considers the problem of optimum stratification for two sensitive quantitative variables Y_j ($j=1,2$) when samples from different strata are selected with simple random sampling with replacement (*srswr*) and an auxiliary variable X is taken as stratification variable. A cumulative cube root rule has been proposed for determination of optimum strata boundaries for proportional allocation method. The paper concludes with a numerical illustration.