

## DYNAMIC RELIABILITY ESTIMATION IN A RANK-BASED DESIGN

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*Abstract:* Ranked set sampling (RSS) is a data collection method that allows us to direct attention toward measurements of more representative sample units. This article deals with estimating a time-dependent reliability measure under a generalization of the RSS. Some results concerning optimal properties of the proposed estimator are presented. Monte Carlo simulation is employed to assess performance of the estimator. A sport data set is finally analyzed.

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