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Title: Reliability Estimation in Exponential Samples

Abstract: 
This is a study on unbiased estimation of the reliability $R(t) = \exp(-t/\lambda)$ based on a random sample of size $n$ from an exponential population with unknown mean $\lambda$ where $t(> 0)$ is given. We focus on estimation of $R(t)$ based on (i) Complete Sample, (ii) Failure-Truncated Sample, (iii) Time-truncated Sample. Time permitting, we also discuss about the problem of Prediction of Future Observation(s) Based on Exponential Samples.