

Designing Bayesian Sampling Plans for Exponential Distributions with Type-II Progressive Hybrid Censoring

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Abstract

This article studies the problem of designing Bayesian sampling plans with type-II progressive hybrid censored samples. Algorithms A and B for deriving Bayesian sampling plans are proposed. Comparison between the performances of the proposed sampling plans with the sampling plans of Lin and Huang [4] is made. The numerical results indicate that the proposed sampling plans perform much better than the sampling plans of Lin and Huang [4] in terms of their associated Bayes risks.

Keywords: Bayesian sampling plan; type-II progressive hybrid censoring