

行政院國家科學委員會專題研究計畫 期中進度報告

隨機篩選取樣下,指數,韋伯壽命分布的貝氏最佳檢驗設計

(2/3)

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We have derived a Bayes sampling plans for the exponential population. To extend the sampling scheme, we consider the data is randomly uniformly censored. We consider three different types of censoring. Let $(t-\varepsilon, t)$ be the uniform censoring interval. Either t or ε is permitted varying while keeping the other parameter fixed. Also, the case that both t and ε are permitted varying is considered. Lam and Choy (JSPI, 1995) has obtained a scheme which they claimed it is Bayes. But we have shown it is not.

We also consider the case of Weibull population. A reasonable sampling plan is proposed and some related results such as risks corresponding to some lose function are obtained.