

对数正态分布定时截尾样本下加速寿命试验的统计分析

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摘要 本文研究了定时截尾样本下加速寿命试验的统计分析,给出了各应力水平下形状参数的改进近似无偏估计 (RAUE) 及保序估计 (IRE),对这些估计的性质进行了讨论. 最后给出的一个数值例子表明,本文提供的统计方法在计算上是简便的,在应用上是可行的.

关键词 [加速寿命试验,改进近似无偏估计,保序估计](#)

分类号

STATISTICAL ANALYSIS OF ACCELERATED LIFE TEST ON LOGNORMAL DISTRIBUTION CASE UNDER TYPE I CENSORING

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Abstract This paper modifies the filled function method, which is previously designed to solve continuous global optimization problems, to solve integer programming problems. With the definition of discrete local minimal solution of an integer programming problem, this paper presents a neighbourhood search algorithm for finding a discrete local minimal solution of the problem. Then a filled function method for the integer programming problem is proposed, which tries to find a better discrete local minimal solution of the problem by minimizing a filled function. Numerical results are presented to show the effectiveness of the method.

Key words [Accelerated life test](#) [refined approximate unbiased estimator \(RAUE\)](#) [Isotonic regression estimator \(IRE\)](#)

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