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论文

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可靠性假设检验

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RELIABILITY TEST OF HYPOTHESIS

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摘要

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摘要 提出一种对母体百分位值和百分率(或可靠度)进行假设检验的方法。该方法适用于三参数威布尔分布、极值分布以及其他连续分布,而且便于工程应用。

关键词: 假设检验 可靠性 三参数威布尔分布 极值分布

Abstract: A test of hypothesis for population percentiles and percentage is presented in this paper. The method is applicable to the three-parameter Weibull, the normal, the extreme value, the gamma and a host of other continuous distributions. And it is simple and convenient for application in engineering. The test for percentiles and percentage of the three-parameter Weibull and the extreme value distribution, which have become prominent in engineering design, is discussed at some length. Many results of fatigue experiments have been well treated by this method.

Keywords: test of hypothesis reliability three-parameter Weibull distribution extreme distribution

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