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论文

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### 元器件应力筛选的有效性准则

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### Stress Screening Effectiveness Criteria

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摘要

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**摘要** 当一种元器件在经历了某个筛选试验以后其使用可靠度提高了,就称该筛选试验是“有效的”,否则就是“无效的”。如果对于一种元器件存在着一个有效的筛选试验,就称这个元器件是“适合筛选的”,否则,这种元器件就“不适合于筛选”,即不存在任何有效的筛选试验能提高该元器件的使用可靠度。从对元器件应力筛选的这样一个有效性准则的定义出发,讨论并给出了与该定义相关数学问题的描述。此外,还详细地讨论和从理论上证明了筛选前后失效率的不变性以及给出了筛选试验有效性的失效率准则与可靠度准则的相互关系。

**关键词:** 应力筛选 筛选的有效性 失效分布 失效率 可靠度

**Abstract:** Stress screening is considered effective if and only if it leads to increased reliability. Consequently, a to-be-screened part is considered “screening-adequate” only when an effective screening test does exist to increase its reliability for its expected applications. In this paper, stress screening effectiveness criteria are discussed in terms of failure distribution and failure rate. Quantitative relationship between failure rate and failure distribution before and after screening is provided.

**Keywords:** stress screening effectiveness of screening failure distribution failure rate reliability

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