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### 系统可靠性中工作时间的不确定性(英文)

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### UNCERTAINTIES OF OPERATING TIME IN SYSTEM RELIABILITY

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摘要

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**摘要** 在现有可靠性理论中系统工作时间被认为可以确定性地表示。但实际上由于系统工作时间可能带有随机和模糊这两种不确定性,上述观点不再是合理了。本文研究在系统工作时间带有不确定性时的系统可靠性行为,并定义了模糊可靠度和等效工作时间这两个概念。

**关键词:** 不确定性 工作时间 随机性 模糊性 模糊可靠度 等效工作时间

**Abstract:** It's generally viewed that system operating time is measured deterministically. Unfortunately this viewpoint becomes unreasonable due to uncertainties attached to the system operating time; Randomness and fuzziness. In this paper we show the system reliability behavior in the presence of uncertainties attached to the system operating time. The concepts of fuzzy reliability and equivalent operating time are then proposed.

**Keywords:** ncertainty operating time randomness fuzziness fuzzpreliability equivalent operating time

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