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[<<](#) [<<](#) [前一篇](#) | [后一篇](#) [>>](#) [>>](#)

余度管理中故障监控门限值的选取

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THE FAILURE THRESHOLD SELECTION IN FAULT DETECTION OF REDUNDANT CONTROL SYSTEMS

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摘要

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摘要 本文讨论了余度管理中故障监控门限值的选取。门限值的选取对监控系统性能有很大影响。本文通过分析的方法求门限值的最优值。该方法具有一定的准确性,可以作为实际选取门限值的参考。

关键词: 门限值 故障检测 余度管理

Abstract: An analytical method to determine the failure threshold in fault detection algorithm of redundant systems is presented and discussed. Based on the qualities of monitor and control system, two kinds of cost function are constructed respectively to calculate the threshold. The method is verified by an example and the results have proved that this method is both simple and effective. The threshold computed value can be used as a reference in the real circumstance and some conclusions derived can also serve as the direction to the real work.

Keywords: failure threshold fault detection redundant management

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