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论文

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机内测试定量要求的现场试验验证方法研究

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Study on Field Demonstration Method for Quantitative Built-In Test Requirements

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摘要

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摘要 阐述了机内测试(BIT)定量要求现场试验验证方法的内涵和实施流程。根据置信度水平和功能单元覆盖要求计算BIT故障检测率、故障隔离率和虚警率综合验证的样本量,根据BIT参数的单侧置信限进行合格判断。给出了数据统计判据、分类流程和统一记录表格。通过案例应用说明了该方法的可行性。

关键词: 机内测试 现场试验验证 样本量 判据 故障

Abstract: The definition and implementing flow of the field demonstration method for quantitative built-in test (BIT) requirements are described. The sample sizes of the integrated demonstration for BIT fault detection rate, fault isolation rate and false alarm rate are computed according to the needs of confidence level and functional unites coverage. And the eligible judgments are made based on the single confidence limits of BIT parameters. The statistic judgement, classification flow and uniform recording table for fault data are given. An application case shows the feasibility of the method.

Keywords: built-in test field demonstration sample size judgement fault

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