



航空学报 » 1992, Vol. 13 » Issue (7) :444-447 DOI:

论文

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< Previous Articles | Next Articles >>

自动测试设备的效率方程

高锡俊, 周玉芬

空军工程学院4系 西安 710038

AN EFFECTIVENESS EQUATION OF ATE

Gao Xi-jun, Zhou Yu-fen

Electronic Engineering Dept. of the Air Force Engineering College, Xi'an, 710038

摘要

参考文献

相关文章

Download: PDF (232KB) HTML OKB Export: BibTeX or EndNote (RIS) Supporting Info

摘要 效率是各项指标的综合度量。首先提出度量自动测试设备(ATE)效率的8项技术指标:故障检测率FDR、故障隔离率FIR、检测准确度FDA、测试时间 t_d 、故障检测概率 P_d 、故障漏报概率 P_m 、虚警概率 P_f 和故障分辨率 δ 。重点是建立ATE的效率方程,包括建立和求解ATE的工作状态方程,导出故障检测效率方程,无模糊故障隔离的效率方程和模糊故障隔离的效率方程,即ATE的效率方程,从而为ATE指标的分析与综合提供一种理论依据。

关键词: 自动测试设备 ATE指标 测试效率

Abstract: Effectiveness is an integrated measurement of all parameters. This paper presents firstly eight technical parameters which measure the effectiveness of the automatic test equipment (ATE). They are fault detection rate (FDR), fault isolation rate (FIR), fault detection accuracy (FDA), test time (t_d), fault detection probability (P_d), fault missing probability (P_m), false alarm probability (P_f) and fault resolution (δ). Then the paper focuses its main discussion on establishing the effectiveness equation of ATE, during the process of which the authors begin with establishing and solving the operational state equation of ATE, and then deduce the fault detection effectiveness equation, fault isolation effectiveness equation without ambiguity and finally the fault isolation effectiveness equation with ambiguity, which is the ATE effectiveness equation providing a theoretical basis for analyzing and synthesizing the ATE parameters.

Keywords: automatic test equipment parameters of ATE test effectiveness

Received 1990-02-25; published 1992-07-25

引用本文:

高锡俊;周玉芬. 自动测试设备的效率方程[J]. 航空学报, 1992, 13(7): 444-447.

Gao Xi-jun; Zhou Yu-fen. AN EFFECTIVENESS EQUATION OF ATE[J]. Acta Aeronautica et Astronautica Sinica, 1992, 13(7): 444-447.

Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- ▶ RSS

作者相关文章

- ▶ 高锡俊
- ▶ 周玉芬