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基于虚拟仪器技术的光电雷达电子部件性能检测及故障诊断系统

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SYSTEM OF PHOTOVOLTAIC RADAR ELECTRONIC COMPONENT PROPERTY TESTING AND FAULT DIAGNOSIS BASED ON VIRTUAL INSTRUMENTS TECHNOLOGY

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摘要

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摘要 分析了某型飞机光电雷达的工作过程,提出了一种基于虚拟仪器技术的光电雷达电子部件性能检测及故障诊断设计方案。通过对电子部件所有信号的实验测试和故障树结构分析,阐述了光电雷达电子部件性能检测和故障诊断的实现过程,并探讨了实际研制过程中的一些主要技术难点及其解决方法。

关键词: 光电雷达 故障树 虚拟仪器 性能检测 故障诊断

Abstract: In this paper, the work process of airplane photovoltaic radar is introduced simply and the design scheme of the equipment property testing and fault diagnosis based on virtual instruments technology is presented. The property testing and fault diagnosis process of the photovoltaic radar electronic component based on the testing of all the signals and analysis of fault trees are introduced in detail, and some major technology problems in the developing process are discussed and methods to solve are provided.

Keywords: photovoltaic radar fault trees virtual instruments property testing fault diagnosis

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