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### 机载电子设备地面仿真检测系统

范仁周, 陈瑞林, 张锡明

北京航空航天大学

### A GROUND SIMULATION-INSPECTION SYSTEM FOR AVIONIC DEVICES

Fan Renzhou, Chen Ruilin, Zhang Ximing

Beijing University of Aeronautics and Astronautics

摘要

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**摘要** 本文讨论机载电子系统地面仿真检测系统的系统功能,硬件软件结构,给出一个实际的仿真检测系统,它由11台不同类型微机通过8端光纤通信网络连成一个分布式仿真测试网,能够模拟雷达运动目标信号,导航计算机、大气数据计算机、导弹控制计算机信息,能够进行实时数据处理、绘制目标运动曲线,打印测试参数报表等。

**关键词:** 航空电子 仿真 机载数据库 分布式计算系统

**Abstract:** The function of hardware and Software structure of ground simulating and inspecting systems for airborne electronic devices has been discussed in this paper, as an example, a real simulation and test system is given. The system connects different kinds of 11 microcomputers as DIMENSION 68000, S'DK-86, TP-801 to compose a distributed simulation and test network through a 8-terminal optic fiber communication net. The system can imitate signals of the motive target of radars and signals of ARINC-429 of the Navigation Subsystem and the air data computer. It can receive, store and process the realtime data from the airborne electronic devices, perform error analysis, draw curves of the motive target, print tables of various test parameters by directly interfacing to the airborne devices. The system is easy to use and operate with perfect function. The technique criteria accomplished and evaluation of the system are also given.

**Keywords:** avionics simulation airborne data bus distributed computer system

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