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以PC机作为测控核心系统的导弹舵机CAT软件包

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A SOFTWARE PACKAGE FOR MISSILE STEERING SYSTEM COMPUTER AIDED TEST USING PC AS CORE INSTRUMENT

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摘要

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**摘要** 本文介绍采用IBM-PC/XT型计算机测控核心系统的导弹舵机计算机辅助试验(CAT)系统软件包。有关设置、零点校验、传感器标定、静态测试、动态测试和数据处理等六个程序文件,采用FORTRAN 77和宏汇编(MASM)语言混合编制。采用批处理方式联接程序文件,而各程序文件间的数据传递则利用数据文件实现,因此程序编写、调试和扩展比较方便。系统具有计算机自动给出测试信号,自动设置测试系统开关的功能。软件广泛采用汉字菜单和汉字人机对话的方式,并具有简单判断故障能力,故不但提高了测试自动化程度,而且使用方便,符合我国国情。软件包经过多次联试证明是可行的。

**关键词:**

**Abstract:** A software package for missile steering system computer aided test using IBM-PC/XT micro-computer as core instrument is presented. The software package includes 6 files. They are switch setting, zero checking, transducer calibration, static state test, dynamic state test and data processing. The program files are written in FORTRAN Y7 merged in macro assembly language. It uses batch processing to connect the program files and the data transfer among the program files is realized by data files, so it is easy to program, debug and augment. The test system is able to generate test signals, set the switches automatically. The software package uses Chinese character menu and Chinese character interactive way and has simple error detection ability. So it is easy to use by Chinese operators. The software package has passed on line test with satisfactory result.

**Keywords:**

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