首页 | 关于本刊 | 编 委 会 | 最新录用 | 过刊浏览 | 期刊征订 | 下载中心 | 广告服务 | 博客 | 论坛 | 联系我们 | English

















航空学报 » 1998, Vol. 19 » Issue (S1) :66-71 DOI:

:∧ →

最新目录 | 下期目录 | 过刊浏览 | 高级检索

< ◀◀ 前一篇

后一篇 >1



主动控制技术(ACT)验证机工程飞行仿真系统设计

宋子善,许佩珍,沈为群

北京航空航天大学自动控制系, 北京, 100083

DESIGN OF THE ENGINEERING FLIGHT SIMULATION SYSTEM OF ACTIVE CONTROL TECHNOLOGY(ACT) VERIFYING AIRCRAFT

Song Zishan, Xu Peizhen, Shen Weiqun

Department of Automatic Control, Beijing University of Aeronautics and Astronautics, Beijing, 100083

摘要 参考文献 相关文章

Download: PDF (335KB) HTML OKB Export: BibTeX or EndNote (RIS) Supporting Info

摘要 研究一种我国自行研制、开发的用于ACT验证机的研制和试飞的多功能工程飞行仿真系统,分析了系统的设计概念、原则和功能要求,提出了面向多功能要求(全数字实时飞行仿真、电传飞控铁鸟台综合试验、飞行训练模拟和工程飞行仿真)的总体设计和总体结构,研究了ACT验证机动力学特性的建模、仿真和提高仿真逼真度的方法。研究和开发了工程飞行仿真的实时管理软件系统和人机(用户)接口。系统应用实践和试飞飞行员的评价表明设计是成功的,是一种性能/价格比高的工程飞行仿真系统。

关键词: 主动控制技术 ACT验证机 飞行仿真 飞行控制 铁鸟 电传操纵

Abstract: This paper studies a multifunction engineering flight simulation system used for ACT verifying aircraft and developed by China, analyzes the design philosophy principles and function requirements of flight simulation systems, and, faced to multifunction requirements (full digit real time flight simulation, fly by wire flight control iron bird integrate experiment, flight training simulation and engineering flight simulation) puts forward an overall design and system structure of the flight simulation system. The authors also study modeling and simulation of flight dynamic character of ACT verifying aircraft and method of increasing fidelity of simulation, study and develop a real time simulation management software system and man machine (user)interface. Application practice and evaluation of fly test pilot indicate that the design of the flight simulation system is successful and ratio of performance over price is high.

Keywords: act ive control technology ACT verifying air craft flight simulation flight control ir on bir d fly by wir e

Received 1998-08-07; published 1998-11-25

引用本文:

宋子善;许佩珍;沈为群. 主动控制技术(ACT)验证机工程飞行仿真系统设计[J]. 航空学报, 1998, 19(S1): 66-71.

Song Zishan; Xu Peizhen; Shen Weiqun. DESIGN OF THE ENGINEERING FLIGHT SIMULATION SYSTEM OF ACTIVE CONTROL TECHNOLOGY (ACT) VERIFYING AIRCRAFT[J]. Acta Aeronautica et Astronautica Sinica, 1998, 19(S1): 66-71.

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

- ▶ 宋子善
- ▶ 许佩珍
- ▶ 沈为群

Copyright 2010 by 航空学报