



航空学报 » 1997, Vol. 18 » Issue (1) :18-22 DOI:

论文

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< Previous Articles | Next Articles >>

飞行控制系统对驾驶员诱发振荡的影响

王永熙

成都飞机设计研究所, 成都, 610041

EFFECT OF FLIGHT CONTROL SYSTEM ON PILOT INDUCED OSCILLATION

Wang Yongxi

Chengdu Aircraft Design and Research Institute, Chengdu, 610041

摘要

参考文献

相关文章

Download: PDF (282KB) HTML 0KB Export: BibTeX or EndNote (RIS) Supporting Info

摘要 着重从飞行控制系统角度谈有人驾驶飞机的驾驶员诱发振荡问题, 分析了系统杆力、传动比、间隙、摩擦力以及飞控伺服作动器对驾驶员诱发振荡的影响, 用矢量图简明地反映飞机产生驾驶员诱发振荡的可能性和趋势。对飞机飞行控制系统的设计和对驾驶员诱发振荡现象的分析、处理有参考价值

关键词: 驾驶员诱发振荡 飞行控制系统 矢量

Abstract: Pilot induced oscillation(PIO) of a piloted aircraft is described from flight control system(FCS) point of view. The effects of a system stick force, transmission ratio, clearance, friction and flight control servoactuator on PIO are analyzed. The possibility and tendency caused by PIO are concisely explained with a vector diagram, which is of value for reference in design of FCS and analysis of PIO.

Keywords: pilot induced oscillation flight control vectors

Received 1995-07-13; published 1997-02-25

引用本文:

王永熙. 飞行控制系统对驾驶员诱发振荡的影响[J]. 航空学报, 1997, 18(1): 18-22.

Wang Yongxi. EFFECT OF FLIGHT CONTROL SYSTEM ON PILOT INDUCED OSCILLATION[J]. Acta Aeronautica et Astronautica Sinica, 1997, 18(1): 18-22.

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

- ▶ 王永熙