



航空学报 » 2005, Vol. 26 » Issue (6) : 720-725 DOI:

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战斗机非线性飞行控制技术的研究与发展

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Development of Nonlinear Flight Control Technology for Fighter Aircrafts

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摘要

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摘要 战斗机非线性飞行控制技术研究综述。首先介绍战斗机技术发展走向,然后对当前主要战斗机飞行控制设计方案进行分析,并重点介绍神经网络在飞行控制中的应用研究。最后指出,基于神经网络的智能控制方案作为飞行控制的重要研究方向,将为未来先进战斗机飞行控制系统设计提供重要的解决方案。

关键词: 飞行控制 非线性控制 自适应控制 智能控制 神经网络

Abstract: Researches on nonlinear flight control of fighter aircrafts are surveyed. Technical development directions for future advanced fighter aircrafts are summarized and major fighter aircraft flight control designing approaches are introduced. Research activities on neural network based intelligent flight control are introduced particularly. It is pointed out that, as an important research direction, neural network based intelligent adaptive control will provide potential flight control schemes for advanced fighter aircrafts in the future.

Keywords: flight control nonlinear control adaptive control intelligent control neural network

Received 2004-09-02; published 2005-12-25

引用本文:

朱家强;郭锁凤;朱纪洪;胡春华. 战斗机非线性飞行控制技术的研究与发展[J]. 航空学报, 2005, 26(6): 720-725.

ZHU Jia-qiang; GUO Suo-feng; ZHU Ji-hong; HU Chun-hua. Development of Nonlinear Flight Control Technology for Fighter Aircrafts[J]. Acta Aeronautica et Astronautica Sinica, 2005, 26(6): 720-725.

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