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机动增强及阵风减缓飞行控制系统设计

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DESIGN OF FLIGHT CONTROL SYSTEM WITH MANEUVER ENHANCEMENT AND GUST ALLEVIATION

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摘要

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摘要 本文以CCV—YF—16飞机为背景,阐述了机动增强/阵风减缓这一直接力控制模态的构成及设计思想;以数字仿真进行功能验证与评价;提出以C飞行品质指标为目标函数的参数优化设计法,从而有效地解决该模态的参数设计问题。

关键词:

Abstract: This paper, based on the CCU-YH-16 fighter aircraft, investigates the design philosophy and configuration of the flight control system with maneuver enhancement and gust alleviation. Comparison between basic flight control system and maneuver enhancement/gust alleviation system is shown by simulation results. The functions of maneuver enhancement/gust alleviation are examined and evaluated. Parameter optimization method is used using C* flight performance criterion as objective function.

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