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论文

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飞机抗侧风着陆系统

杨一栋

南京航空学院

COUNTERACTING SIDEWIND CONTROL SYSTEM FOR AIRCRAFT LANDING

Yang Yidong

Nanjing Aeronautical Institute

摘要

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摘要 由于侧风对安全着陆的危害,以及常规飞机抗侧风着陆系统的固有缺陷,使飞机设计者的目光日益投向主动控制设计技术。70年代初期曾有众多的学者纷纷提出CCV直接侧力控制的设想。并预言将直接侧力主动控制技术用于抗侧风起飞与着陆将是最典型和最有效益的应用。为便于对比,本文将提出三种不同的抗侧风控制系统方案,即

关键词:

Abstract: The most obvious use of direct sideforce control (DSC) is for counteracting sidewind during take-off and landing of aircraft. Based on the re-view of the two conventional methods, the crabbed and the sideslipping, for coping with a crosswind on approach, this paper presents a feasible scheme which applies DSC to facilitate correction of lateral offsets to runway. "Open-loop control and close-loop correction" strategy has been employed in this scheme. The results of the digital simulation of this system show that the effect of the counteracting sidewind is obvious.

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