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飞机阻尼（增稳）系统的参数优化设计

冯亚昌, 索瑾

北京航空学院

PARAMETER OPTIMIZATION PROGRAM FOR THE DAMPED （STABILITY AUGMENTED） SYSTEM OF AIRCRAFTS

Feng Yachang, Suo jin

Beijing Institute of Aeronautics and Astronautics

摘要	参考文献	相关文章

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摘要 一、引言 众所周知,在具有纵向阻尼（增稳）系统的飞行操纵系统中,引入清洗网络的目的,是在增加等效飞机动稳定性的同时不要较大地削弱操纵性。所以正确地选择系统中的增益和清洗网络时间常数τ是很重要

关键词：

Abstract： This paper, presents a calculation Method of Powell optimization under certain constraints, which is specifically made and designed by authors. Then authors suggest a practical .. method which .. optimizes two parameters, a gain K and a time constant of washout. networkm In the damped （stability augmented） system （containing nonlinear links） of aircrafts by means of Powell optimization method according to level quality requirement . for MIL-F-8785C specifications under stick shift at sinusoidal signal input and aircraft fuselage . being instantly subjected to impulse wind.

Keywords：

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