



航空学报 » 1996, Vol. 17 » Issue (5) :61-65 DOI:

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磁通综合式余度舵机系统电流均衡的研究

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STUDY OF CURRENT EQUALIZATION IN REDUNDANT ACTUATION SYSTEM WITH MAGNETIC FLUX SUM

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摘要

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摘要 讨论了磁通综合式余度舵机系统电流均衡的设计问题。基于实现解耦的电流均衡设计, 消除了通道间的“电流纷争”。其结论适用于其它磁通综合式余度电液伺服系统

关键词: 舵机 磁通量解耦

Abstract: The current equalization design of a redundant actuation system with magnetic flux sum is discussed. The differences between branches will result in different coil current. This would cause higher power consumption and heat dissipation requirements in the actuator controller. The current equalization design, based on the decoupling, eliminates the "current fight" in channels. The final conclusions fit for other redundant electric hydraulic servo systems with magnetic flux sum.

Keywords: actuators magnetic flux decoupling

Received 1994-10-20; published 1996-10-25

引用本文:

程涛;王占林. 磁通综合式余度舵机系统电流均衡的研究[J]. 航空学报, 1996, 17(5): 61-65.

Cheng Tao; Wang Zhanlin. STUDY OF CURRENT EQUALIZATION IN REDUNDANT ACTUATION SYSTEM WITH MAGNETIC FLUX SUM[J]. Acta Aeronautica et Astronautica Sinica, 1996, 17(5): 61-65.

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