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余度飞行控制系统的可控性与余度伺服器的力均衡

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CONTROLLABILITY OF REDUNDANT FLIGHT CONTROL SYSTEM AND PRESSURE EQUALIZATION OF REDUNDANT SERVO ACTUATORS

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摘要

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摘要 本文对余度飞行控制系统的控制特性进行了研究,分析了系统的可控性,系统可控与不可控变量对偏置的动态响应。并对余度伺服器的压力均衡问题进行了引伸,设计了比例积分式数字均衡回路,经过实验验证,获得了良好的均衡效果。

关键词:

Abstract: A study on the control behavior of redundant flight control system is carried out. Emphasis is put on analysis of the controllability of the redundant system and the effects of bias on the dynamic response of controllable and uncontrollable state variables. The conclusions are extended to the pressure equalization problem of redundant servo actuators, Then, a type of proportional plus integral digital equalization loop is designed, Its quite good behavior of equalization is verified through experiments.

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