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歼击机自修复控制系统仿真研究

柴干, 胡寿松, 王永

南京航空航天大学自控系, 南京, 210016

SIMULATION OF FIGHTER SELF REPAIRED CONTROL SYSTEM

Chai Gan, Hu Shousong, Wang Yong

The third Department, Nanjing University of Aeronautics and Astronautics, Nanjing, 210016

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摘要 针对歼击机自修复控制系统的综合仿真，推导了具有较大稳定域的自适应 R K 公式，研制了歼击机自修复控制系统一体化仿真环境，该环境支持歼击机动力学方程的线性化、故障诊断、自修复控制律设计等众多仿真实验任务。在此基础上，应用一种模型参考自修复方法对某型歼击机进行了仿真研究。

关键词： 自修复控制   仿真   面向对象的方法

Abstract： A new adaptive algorithm which has a wider stability region was derived and the siumulation environment which is used for the fighter self repaired control systems simulation was designed.This environment can support various simulation experiments which include linearization method, failure diagnosis and reconstruction control law design.A model reference self repairing control method was used to carry out the simulation of fighter self repaired control systems

Keywords： self-repairing cont ro l   simulat ion   object-o riented method

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