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歼击机自修复控制系统仿真研究

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SIMULATION OF FIGHTER SELF REPAIRED CONTROL SYSTEM

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摘要

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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RK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 simulation 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.

Keywords: self-repairing control simulation object-oriented method

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