



航空学报 » 1998, Vol. 19 » Issue (1) :55-58 DOI:

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歼击机结构故障的模式识别与参数辨识新方法

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NEW METHOD OF MODE IDENTIFICATION AND PARAMETER ESTIMATION FOR THE FAILURE OF CONSTRUCTION OF A FIGHTER

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摘要

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摘要 针对自修复飞行控制系统的故障, 采用基于精确线性化的方法, 在原空间和特征空间提出了基于双假设/多假设(增强型)概率统计学的模式识别与参数辨识方法, 给出了结构故障的可识别性和可辨识性的判别准则, 并以某型歼击机为例进行了仿真研究。

关键词: 歼击机 结构故障 模式识别 参数辨识

Abstract: For the failure of construction of self repairing flight control systems, the methods of mode identification and parameter estimation based on exact linearization on original space and characteristic space are presented. And the methods for mode identification and parameter estimation based on two hypotheses and multiple hypotheses (enhanced type) statistics are provided. The decision rule of identifiability and estimability, for the failure of construction, is given, followed by the digital simulation of a kind of fighter.

Keywords: fighter failure of construction mode identification parameter estimation

Received 1997-01-27; published 1998-02-25

引用本文:

胡寿松;陈复扬. 歼击机结构故障的模式识别与参数辨识新方法[J]. 航空学报, 1998, 19(1): 55-58.

Hu Shousong; Chen Fuyang. NEW METHOD OF MODE IDENTIFICATION AND PARAMETER ESTIMATION FOR THE FAILURE OF CONSTRUCTION OF A FIGHTER[J]. Acta Aeronautica et Astronautica Sinica, 1998, 19(1): 55-58.

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