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用于检测操纵面损伤的故障检测滤波器

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FAULT DETECTION FILTER FOR THE CONTROL SURFACE FAILURES OF AIRCRAFT

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摘要

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摘要 针对飞行中典型的操纵面损伤故障,以故障检测滤波器为基础,开发了一种建立在离散模型上的快速、稳定的故障检测及诊断算法,可以在几个采样周期内同时精确检测出多个操纵面的损伤程度,故障检测滤波器的稳定性、收敛性也得到证明,具有较好的实用性。几种组合故障下的仿真研究证实了上述结论。

关键词:

Abstract: This paper developed a new method for the detection and isolation of control surface failures. This method is based on the fault detection filter and is simpler than normal filters. It is stable, fast and it can get the accurate fault rate of more than one surface fault in a few sampling intervals. The coverage and stability are also proved. An example of an aircraft with some failures is illustrated to show the results of this fault detection filter algorithm.

Keywords:

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