



航空学报 » 1995, Vol. 16 » Issue (6) : 720-724 DOI:

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检测传感器故障的鲁棒观测器

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THE ROBUST OBSERVER FOR FAULT DETECTION OF THE SENSOR

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摘要

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摘要 介绍一种在系统参数变化情况下进行故障检测的观测器。对观测器采用特征值、特征向量进行联合配置的算法,并对估计误差设计奇偶空间,使各传感器的故障在奇偶空间中被解耦分离,因而可用一个观测器检测与分离多路故障传感器,实现了故障检测的鲁棒性

关键词: 故障检测 鲁棒性 传感器

Abstract: A method of design of observer is presented for fault detection and isolation when the parameters of the control system are changed. In this method of design the eigenstructure assignment is used for observer. In order to isolate the fault of each sensor channel, a parity subspace of the error between the system output and observer output is constructed, and the faults of each sensor are decoupled in the parity subspace. The detection and isolation of the fault of each sensor are realized, where only one observer is used. Thereby the robustness of the fault detection and isolation is achieved.

Keywords: faults-detection robustness sensor

Received 1993-02-02; published 1995-12-25

引用本文:

汪声远. 检测传感器故障的鲁棒观测器[J]. 航空学报, 1995, 16(6): 720-724.

Wang Shengyuan. THE ROBUST OBSERVER FOR FAULT DETECTION OF THE SENSOR[J]. Acta Aeronautica et Astronautica Sinica, 1995, 16(6): 720-724.

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