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容错式飞机自动除冰系统

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FAULT-TOLERANCE TYPE OF AUTOMATIC DE-ICING SYSTEM FOR AIRCRAFT

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摘要

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摘要 提出一种高可靠性节能型飞机自动除冰系统,采用节能型电分离式除冰方法,并配有最优能量控制策略,使除冰系统所需的除冰能量大大降低;用容错式系统结构,使整个自动除冰系统的可靠性大大增加。实验结果表明系统可靠性高,并且节能效果显著。

关键词: 除冰器 自动控制 容错

Abstract: In this paper, a high reliability and energy-saving type of automatic deicing system for aircraft is proposed. In this system, the electric separation deicing method and the optimal energy control strategy are used, in order to save deicing energy consumed by the automatic deicing system. In this system, the fault tolerance system structure is adopted to improve the reliability of the automatic deicing system. The test results show that this automatic deicing system is a high reliability system, and the effect of energy saving is remarkable.

Keywords: deicers automatic control fault tolerance

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