



航空学报 » 2004, Vol. 25 » Issue (3) :258-262 DOI:

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飞机排故方法模糊与统计综合评估算法的研究

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Research on Fuzzy and Statistical Algorithms of Comprehensive Evaluation Methods to Eliminate Airplane Faults

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摘要

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摘要 针对民航飞机维修过程中故障描述对应的多种故障原因和排故方法,无法进行确定性选择问题,采用模糊综合评估理论,在统计已往维修经验数据的基础上,提出一种在各种故障原因和排故方法中进行选择的优先排序算法,进而解决了飞机故障诊断信息应用的关键问题,提高了排故速度。此评估算法已应用到民航的维修实践中。

关键词: 飞机排故方法 飞机故障描述 模糊评估算法 优先排序 知识库

Abstract: Many different causes and elimination methods for airplane faults may be met during the maintaining process, however a selection can't be made. Aiming at this problem, adopting the fuzzy theory of comprehensive evaluation and basing on the statistics of former empirical data of maintenance, the authors present a priority sorting algorithm to make selection from various fault causes and elimination methods. Thus, the key problem on the application of the information from airplane faults diagnosis can be solved, and the speed of eliminating fault can be improved. The evaluation algorithm has already been put into the practice of maintenance airplane.

Keywords: method of elimination of airplane faults description of airplane faults fuzzy evaluation algorithm priority sorting repository

Received 2003-07-04; published 2004-06-25

引用本文:

董健康,耿宏. 飞机排故方法模糊与统计综合评估算法的研究[J]. 航空学报, 2004, 25(3): 258-262.

DONG Jian-kang; GENG Hong. Research on Fuzzy and Statistical Algorithms of Comprehensive Evaluation Methods to Eliminate Airplane Faults[J]. Acta Aeronautica et Astronautica Sinica, 2004, 25(3): 258-262.

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