



航空学报 » 1986, Vol. 7 » Issue (1) :91-96 DOI:

论文

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航空发动机数字控制系统的可靠性

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RELIABILITY OF AEROENGINE DIGITAL CONTROL SYSTEM

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摘要

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摘要 本文从航空发动机数字控制系统可靠性设计的实际出发,针对一类不可维修的、非组合、非冗余系统的马尔可夫模型,提出了一种新解法,即马尔可夫状态的概率分解法。与已有的马尔可夫信号流程图法和马尔可夫模型的数值解法比较,它具有简单、物理概念清楚的特点,同时可获得所需的可靠度解析表达式,对系统可靠性设计能提供有用的信息。

关键词:

Abstract: According to the practice of reliability design of aeroengine digital control system, a new method, probability Resolving Method of Markovian State, is provided to deal with the first kind Markovian model of non-maintainable, non-combinational and non-redundant system. A practical application of this method to reliability design and calculation is presented through an actual example. In comparison with Markovian signal flow chart method and numerical method in solving the Markovian model, the present method is quite simple and clear in physical concept, and easy to calculate not only manually but also on computer. The fact that the results obtained from these three methods are identical proves the correctness of the provided method.

Keywords:

Received 1984-12-28;

引用本文:

王玉麟, 姚志. 航空发动机数字控制系统的可靠性[J]. 航空学报, 1986, 7(1): 91-96. DOI:

Wang Yulin and Yao Zhi. RELIABILITY OF AEROENGINE DIGITAL CONTROL SYSTEM[J]. Acta Aeronautica et Astronautica Sinica, 1986, 7(1): 91-96. DOI:

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