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飞机内部腐蚀关键部位加速试验环境谱研究

宋恩鹏^{1,2}, 刘文琰¹, 杨旭²

1. 北京航空航天大学 航空科学与工程学院, 北京 100083; 2. 沈阳飞机设计研究所, 辽宁 沈阳 110035

Study on Accelerated Corrosion Test Environment Spectrum for Internal Aircraft Structure

SONG En-peng^{1,2}, LIU Wen-ting¹, YANG Xu²

1. Beijing University of Aeronautics and Astronautics, Beijing 100083, China; 2. Shenyang Aircraft Design and Researcher Institute, Shenyang 110035, China

摘要

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摘要 为进行飞机结构日历寿命体系评定,针对某型飞机机体结构内部腐蚀关键部位,对其加速腐蚀试验环境谱进行了研究。提出了适用于内部结构腐蚀关键部位的加速腐蚀试验环境谱,并进行了加速腐蚀试验,采用腐蚀程度对比法确定了加速腐蚀试验环境谱与实际飞机使用环境之间的当量关系,并已成功地将其应用到歼X型飞机机体结构的日历寿命评定中。

关键词: 腐蚀 加速腐蚀 飞机结构 环境谱 当量加速关系

Abstract: To evaluate the calendar life of aircraft structure, an accelerated corrosion test environment spectrum for the critical aircraft component is presented, and the equivalent accelerated relation between the accelerated corrosion environment spectrum and serve time of aircraft structure is established. This method has been successfully used for evaluating the service life of a fighter aircraft.

Keywords: corrosion accelerated corrosion test aircraft structure environment spectrum equivalent accelerated relation

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