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### 环境对有/无防护涂层结构疲劳性能的影响

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### SOME EFFECTS ON FATIGUE PROPERTIES UNDER PROTECTION/UNPROTECTION COATING SYSTEMS

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摘要

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**摘要** 以试验研究为基础,用两种型式的试验件试验来研究飞机结构防护涂层在典型气候和人工加速环境条件下的疲劳性能的影响,并采用结构细节疲劳额定值(DFR)方法给出在环境条件下有/无防护涂层试件的疲劳强度修正系数。由试验结果分析得到下述结论:经大气暴露的涂层试件比未经大气暴露试验的DFR值要下降11%~21%。双涂层试件比单涂层试件在相同暴露试验条件下DFR值要高。

**关键词:**

**Abstract:** The effects on the fatigue characterization under the typical atmosphere and accelerated simulation environments are studied based on the test of two kinds of specimens with protection coating systems for aircraft structures. Some modified coefficients for protection and unprotection coating systems under the environments are given by using structural detail fatigue rating (DFR)method. From the test results, the following conclusions can be drawn out: the DFR value of the coated specimen exposed to the weather, relative to a non exposed specimen, has dropped about 11% to 21%.Under the same condition, the DFR value of a double coating specimen is higher than that of a single coating one. All the research results here can be used as the basis to engineering structure in the area of corrosion protecting design.

**Keywords:**

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