



航空学报 » 1995, Vol. 16 » Issue (2) :99-103 DOI:

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耐久性分析的特征应力法

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CHARACTERISTIC STRESS APPROACH FOR DURABILITY ANALYSIS

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摘要

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摘要 给出了以特征应力为参量表示的结构细节的 $a-s-N$ 曲线。利用此曲线、等寿命曲线和线性累积损伤理论将恒幅载荷下的 (a_K, N_K) 数据转换为谱载下的 (a_K, t_K) 数据,再由 (a_K, t_K) 数据确定当量初始缺陷 (EIFS) 分布。进而分析裂纹超越数概率和结构损伤度,完成结构耐久性分析。

关键词: 耐久性 分布参数系统 裂纹

Abstract: The $a-s-N$ curve expressed by characteristic stress of structural details is presented. Then the (a_K, N_K) data under constant loading are transformed into the (a_K, t_K) data under spectrum loading by using Goodman diagram and Miner's rule, and equivalent initial flaw size (EIFS) distribution parameters are obtained by the (a_K, t_K) data. Finally, the probability of crack exceedance and structural damage degree are calculated and the durability analysis is completed.

Keywords: durability distribution parameters systems crack

Received 1994-06-14; published 1995-04-25

引用本文:

王志智;聂学州;郑仲. 耐久性分析的特征应力法[J]. 航空学报, 1995, 16(2): 99-103.

Wang Zhizhi; Nie Xuezhou; Zheng Minzhong. CHARACTERISTIC STRESS APPROACH FOR DURABILITY ANALYSIS[J]. Acta Aeronautica et Astronautica Sinica, 1995, 16(2): 99-103.

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