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飞机结构设计阶段估算谱载下裂纹扩展模型参数的优化方法

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AN OPTIMUM METHOD FOR ESTIMATING PARAMETERS OF CRACK GROWTH MODEL UNDER LOAD SPECTRUM IN AIRCRAFT STRUCTURE DESIGN

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摘要

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摘要 提出在短周期谱载荷下, 飞机结构设计阶段, 裂纹扩展模型 $da/dt = Qa^b$ 参数的估算方法, 此法可以依据材料参数、载荷谱和结构的几何特征使用优化设计方法计算。

关键词: 裂纹扩展 载荷谱 优化

Abstract: A parameter-estimation method of crack growth model $da/dt = Qa^b$ under the short-cycle loading spectrum is presented, which can be used in aircraft structure design. The estimation can be conducted by using optimum design procedure, based on material parameter, load spectrum and structural geometry.

Keywords: crack growth load spectrum optimization

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