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疲劳小裂纹的断裂力学参数及试验方法的研究进展

丁传富, 吴学仁

北京航空材料研究所, 北京, 100095

INVESTIGATION AND DEVELOPMENT OF FRACTURE MECHANICS PARAMETERS AND TEST METHOD FOR SMALL FATIGUE CRACKS

Ding Chuanfu, Wu Xueren

Beijing Institute of Aeronautical Materials, Beijing, 100095

摘要

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摘要 介绍了小裂纹试验的通用试样和表征小裂纹特性的断裂力学参数。评述了最新发展的 S E N T 试样的表面裂纹和角裂纹的应力强度因子方程。描述了小裂纹数据的表达准则和实验技术

关键词: 疲劳(材料) 小裂纹 应力强度因子 裂纹扩展速率 塑料复型法

Abstract: Some common small crack test specimens are presented as well as the fracture mechanics parameters that have been used to characterize their behavior. A review of the most newly developed stress intensity factor equations for a semicircular surface crack located at the center of the notch root and a quarter circular corner crack in the SENT specimen is given. The expression rules for the small crack data and the experimental techniques are described in detail.

Keywords: fatigue(material) small-crack stress-intensity factor crack growth plasticreplica method

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