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形状记忆合金增强智能复合材料结构的自诊断、自修复功能的研究

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STUDY ON SELF DIAGNOSIS AND SELF REPAIR FUNCTION OF SHAPE MEMORY ALLOY ENHANCED COMPOSITE STRUCTURE

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摘要

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摘要

研究了利用形状记忆合金和液芯光纤对复合材料结构中的损伤进行自诊断、自修复的方法。对总体方案进行了分析,并做了初步的试验。

关键词: 智能复合材料 传感器 自修复

Abstract:

The method of self diagnosis and self repair for composite structure using shape memory alloy and adhesive liquid core optical fibers was studied. General scheme was investigated in detail, and some experiments were done.

Keywords: smart composite sensor self repair

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