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基于智能材料结构的几种损伤评价方法

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DAMAGE EVALUATION METHODS BASED ON SMART MATERIALS AND STRUCTURES

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**摘要** 材料或结构的损伤评价,由于其密切联系实际应用而一直受到广泛关注。参考了国内外最新研究成果,在对工程材料结构损伤评价常规方法作简述的基础上,着重介绍了基于智能材料结构的光纤传感、应力波和高频机械阻抗技术及其在工程中的应用,并讨论了研究中存在的一些问题以及进一步的工作。

**关键词:** 智能材料结构 损伤评价 光纤传感 应力波 机械阻抗

**Abstract:** Structural damage evaluation has all the time attracted broad attention due to its close relation to practical applications. With reference to up-to-date overseas and home literature, the paper has concentrated on methods of optical fiber sensing, stress wave and mechanical impedance, which is based on smart materials and structures, on the basis of a concise review of conventional methods of structural damage evaluation. Applications of the methods in engineering have been presented, and some problems and further research work of the methods have been discussed.

**Keywords:** smart materials and structures damage evaluation optical fiber sensing stress wave mechanical impedance

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