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结构可靠性定寿模型

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A MODEL FOR RELIABILITY ASSESSMENT OF STRUCTURES

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摘要 本文提出一新的结构可靠性定寿模型,它综合考虑了安全寿命设计、损伤容限设计和无损检测的可靠性。根据该模型可以合理确定结构具有高可靠度的使用寿命和检修周期。

关键词： 可靠性定寿   安全寿命设计   损伤容限设计   裂纹检出概率

Abstract： The functional relation between the reliability and the service time of a structural member or a danger position on structure is established. The safe-life design, the damage tolerant design and the crack detection capability of nondestructive testing methods are considered. On the basis of the functional relation, a new model for reliability assessment of structures is presented. Thus the service life and the overhaul periods with high reliability of a structure are determined by the model,

Keywords： reliability assessment   safe-life design   damage tolerant design   probability of crack detection

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