



航空学报 » 1988, Vol. 9 » Issue (3) :119-128 DOI:

论文

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一种具有自适应能力的结构综合方法

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AN ADAPTIVE STRUCTURAL SYNTHESIS METHOD

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摘要

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摘要 从工程应用的可靠性出发,本文提出一种具有自适应能力的结构综合方法(简称ASSM算法)及保证其实施的一系列技术途径,通过各种典型算例的考核计算,表明ASSM算法具有很高的计算效率及良好的适应能力,即使对于较复杂的算例,也仅需5~6次结构分析即可达到或接近优化设计,显示了自适应方法的优势。

关键词:

Abstract: From the point of view of the reliability in engineering applications. This paper devotes itself to the study of adaptive structural synthesis problems and presents an adaptive structural synthesis method (ASSM) as well as a series of technical ways for the implementation. Various typical structures have been optimized to illustrate the power of this algorithm. The results of computations have shown that ASSM algorithm is considerable efficient and has good adaptability, only 5-6 analyses are needed to achieve or access the optimal design even through the test problems are fairly complex. This shows the advantages of adaptive method and the good conditions for general applications of structural synthesis in engineering design.

Keywords:

Received 1987-09-25;

引用本文:

黄季墀;夏人伟;何庆芝. 一种具有自适应能力的结构综合方法[J]. 航空学报, 1988, 9(3): 119-128.

Huang Jichi; Xia Renwei; He Qinzhi. AN ADAPTIVE STRUCTURAL SYNTHESIS METHOD[J]. Acta Aeronautica et Astronautica Sinica, 1988, 9(3): 119-128.

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