



航空学报 » 1988, Vol. 10 » Issue (10) :514-517 DOI:

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优化与人机交互设计方法及其在结构设计中的应用

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THE OPTIMUM AND INTERACTIVE DESIGN METHOD AND ITS APPLICATION IN STRUCTURAL DESIGN

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摘要

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摘要 对于复杂的工程结构设计,除了要满足各种力学条件之外,往往还有许多制造与使用方面的要求,由专家的经验来判断和处理往往更为合理。因此,采用优化与人机交互相结合的设计方法,可以取长补短而获得更为合理和实用的结果。

关键词:

Abstract: A design method synthesizing structural optimization and man-machine interaction is developed in this paper. The program for cylindrical shell (with internal pressure and slight conicity) has been implemented. This program is suitable to IBM-PC microcomputer. The method can be generalized to other structures. The practical applications indicate that this method and its program are efficient and convenient.

Keywords:

Received 1987-06-08;

引用本文:

何麟书;黄海;夏人伟. 优化与人机交互设计方法及其在结构设计中的应用[J]. 航空学报, 1988, 10(10): 514-517.

He Linshu; Huang Hai; Xia Renwei. THE OPTIMUM AND INTERACTIVE DESIGN METHOD AND ITS APPLICATION IN STRUCTURAL DESIGN[J]. Acta Aeronautica et Astronautica Sinica, 1988, 10(10): 514-517.

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