# 首页 | 关于本刊 | 编 委 会 | 最新录用 | 过刊浏览 | 期刊征订 | 下载中心 | 广告服务 | 博客 | 论坛 | 联系我们 | English















航空学报 » 1999, Vol. 20 » Issue (4):68-70 DOI:

最新目录 | 下期目录 | 过刊浏览 | 高级检索

<< Previous Articles | Next Articles >>

### 一种基于模糊重要度的多目标优化设计方法

张延辉, 李为吉

论文

西北工业大学飞机系

#### MULTIOBJECTIVE OPTIMUM DESIGN APPROACH BASED ON FUZZY IMPORTANCE

ZHANG Yan hui, LI Wei ji

Dept. of Aircraft Engineering, Northwestern Polytechnical Univ., Xi'an, 710072, China

摘要 参考文献 相关文章

Download: PDF (249KB) HTML OKB Export: BibTeX or EndNote (RIS) Supporting Info

**摘要** 针对工程设计中经常出现的多目标问题,对目标的重要度进行了模糊性描述,使权重系数的选取建立在重要度这个模糊概念之上。在此基础上提出了一种基于模糊评判的多目标折衷策略,并与遗传算法相结合,发展了一套多目标模糊折衷优化设计算法,通过包括损伤容限目标在内的多目标复合材料层板优化设计的算例,证明了该方法能给出指定设计要求下可能获得的最满意解。

### 关键词:

Abstract: For multiobjective optimization the importance degree of design objectives and the fuzzy description of importance degree are presented in this paper. The weight factors for design objectives are chosen on the basis of importance degree defined by the decision makers in fuzzy environment. Based on the fuzzy importance degree and some compromise strategies, an effective multiobjective optimum design approach, combined with the genetic algorithm, is developed to implement the multiobjective optimum design of composite laminates with damage tolerance. It is shown from the illustration examples that this approach can give the most satisfactory design.

Keywords:

Received 1998-07-07;

## 引用本文:

张延辉;李为吉. 一种基于模糊重要度的多目标优化设计方法[J]. 航空学报, 1999, 20(4): 68-70.

ZHANG Yan hui; LI Wei ji . MULTIOBJECTIVE OPTIMUM DESIGN APPROACH BASED ON FUZZY IMPORTANCE[J]. Acta Aeronautica et Astronautica Sinica, 1999, 20 (4): 68-70.

Service

- ▶ 把本文推荐给朋友
- ▶ 加入我的书架
- ▶ 加入引用管理器
- ▶ Email Alert
- **▶** RSS

作者相关文章

Copyright 2010 by 航空学报