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**

论文   最新目录 ｜下期目录 ｜过刊浏览 ｜高级检索   << Previous Articles | Next Articles >>

结构的模态转换

顾松年[1], 姜节胜[1], 姚起杭[2]

1. 西北工业大学; 2. 西安飞机强度研究所

MODAL TRANSFORMATION OF A STRUCTURE

Gu Songnian[1], Jiang Jiesheng[1], Yao Qihang [2]

1. Box 264, Northwestern Polytechnical University, Xi'an, 710072; 2. Aircraft Strength Research Institute, Xi'an, 710065

摘要	参考文献	相关文章

Download: PDF (343KB)   HTML 0KB   Export: BibTeX or EndNote (RIS)   Supporting Info

摘要 提出一种基于全等变换的模态转换方法，可将振动台模态试验获得的模态，转换成结构处在自由状况下的模态。对方法的合理性做了论述，并佐以例证。

关键词：

Abstract： An approach, based on congruent transformation, for modal transform of the structure under different boundary conditions is proposed. The main purpose is to use this approach to transform the elastic mode got from the modal test of a specimen fixed on vibrostand to the mode in free free state of the same specimen. Two kinds of specimen constraints are considered: statically determinate and statically indeterminate. In the first case, modal matrix is constituted of elastic mode and rigid body mode of the specimen. In the second case, released inertia force attachment mode should be added to form the matrix mentioned above. Reasonableness of the approach is expounded and two examples are carried out to demonstrate the feasibility and effectiveness of the approach as well.

Keywords：

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

引用本文:

顾松年;姜节胜;姚起杭. 结构的模态转换[J]. 航空学报, 1998, 19(4): 56-62.

Gu Songnian;Jiang Jiesheng;Yao Qihang . MODAL TRANSFORMATION OF A STRUCTURE[J]. Acta Aeronautica et Astronautica Sinica, 1998, 19(4): 56-62.