



航空学报 » 1992, Vol. 13 » Issue (1) :23-28 DOI:

论文

[最新目录](#) | [下期目录](#) | [过刊浏览](#) | [高级检索](#)

[<<](#) [<](#) [前一页](#) | [后一页](#) [>](#) [>>](#)

振动系统动力修改的近频耦合模态子空间摄动法

孙久厚, 朱德懋

南京航空学院振动研究所 南京 210016

COUPLED-MODE SUBSPACE PERTURBATION METHOD FOR STRUCTURE DYNAMIC MODIFICATION

Sun Jiu-hou, Zhu De-mao

Vibrative Institute of Nanjing Aeronautical Institute, Nanjing, 210016

摘要

参考文献

相关文章

Download: [PDF \(346KB\)](#) [HTML](#) 0KB Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 本文给出了对振动系统作小修改的一种近频耦合模态子空间摄动法。算例表明这种算法简单、精度高,算法可行。

关键词: 结构动力学 振动分析方法 摄动法 小参数法

Abstract: A coupled-mode subspace perturbation method is presented in this paper. When the structural system has closed natural frequencies, the modes are coupled and the ordinary matrix perturbation method is invalid. By use of the initial modal coordinate transformation, the coupled-mode subspace is defined. After the next subspace modal transformation, the coupled-mode subspace perturbation method gives the complete perturbed eigensolution. The sample problems demonstrate that the method presented here is accurate and efficient.

Keywords: structural dynamics vibration analysis method perturbation method small parameter method

Received 1990-08-01; published 1992-01-25

引用本文:

孙久厚;朱德懋. 振动系统动力修改的近频耦合模态子空间摄动法[J]. 航空学报, 1992, 13(1): 23-28.

Sun Jiu-hou; Zhu De-mao. COUPLED-MODE SUBSPACE PERTURBATION METHOD FOR STRUCTURE DYNAMIC MODIFICATION[J]. Acta Aeronautica et Astronautica Sinica, 1992, 13(1): 23-28.

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

- ▶ [孙久厚](#)
- ▶ [朱德懋](#)