



航空学报 » 1994, Vol. 15 » Issue (9) :1070-1076 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](#) [>](#) [>>](#)

叠层环板轴对称自由振动的精确解

范家让

合肥工业大学建筑工程系,合肥,230009

EXACT SOLUTIONS FOR AXISYMMETRIC FREE VIBRATIONS OF LAMINATED ANNULAR PLATES

Fan Jiarang

Department of Architecture Engineering, Hefei University of Technology, Hefei, 230009

摘要

参考文献

相关文章

Download: [PDF \(352KB\)](#) [HTML](#) 0KB Export: [BibTeX](#) or [EndNote \(RIS\)](#) [Supporting Info](#)

摘要 抛弃任何有关位移或应力模式的人为假设,从三维弹性力学基本方程出发,导出横观各向同性环板轴对称振动问题的状态方程。在多种边界条件下,给出单层、叠层环板轴对称振动问题的精确解。

关键词: 层压板 共振频率 状态方程

Abstract: Discarding any assumptions about displacement models and stress distribution and based on fundamental equations of three-dimensional elasticity, the state equations for the axisymmetric vibrations of transversely isotropic annular plates are established. The exact solutions are presented for the axisymmetric vibrations of single-layer and laminated annular plates with several different boundary conditions.

Keywords: laminates resonant frequencies equations of state

Received 1993-03-23; published 1994-09-25

引用本文:

范家让. 叠层环板轴对称自由振动的精确解[J]. 航空学报, 1994, 15(9): 1070-1076.

Fan Jiarang. EXACT SOLUTIONS FOR AXISYMMETRIC FREE VIBRATIONS OF LAMINATED ANNULAR PLATES[J]. Acta Aeronautica et Astronautica Sinica, 1994, 15(9): 1070-1076.

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

- ▶ [范家让](#)