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变厚度锥形壳的固有频率

朱梓根

北京航空学院

NATURAL FREQUENCIES OF CONICAL SHELLS OF VARIABLE THICKNESS

Zhu Zigen

Beijing Institute of Aeronautics and Astronautics

摘要

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摘要 变厚度锥形壳体的固有频率使用有限元计算已无困难,但有限元法编制程序复杂、费时多。本文用半解析法,由锥形壳的基本方程导出等价的8个一阶微分方程,用数值积分方法得到变厚度锥形壳体的固有频率。方法简单,编程容易,计算精度已满足工程计算要求。

关键词:

Abstract: In this paper a numerical solution of natural vibration frequencies of conical shells of variable thickness are presented. An equivalent set of first order differential equations is derived by using basic equations of the conical shell and the frequency equation of shell under various boundary conditions can be obtained by numerical integration. The calculation results shuw that this method is available.

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