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Natural Frequencies and Modes of Noncircular Cylindrical Shells with Variable Thickness

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Краткое описание

The dynamic characteristics of thin cylindrical isotropic shells with variable thickness are determined using numerical and experimental approaches. Numerical calculations are performed by the finite-element method with FEMAR software. In experimental study, stroboscopic holographic interferometry is used which makes it possible to observe interferential patterns of vibrations of the shell surface in real time. The results obtained by two different methods are compared. © 2017, Springer Science+Business Media, LLC.

Ключевые слова автора

finite-element method; holographic interferometry; natural frequencies and modes; stroboscopic; variable thickness shell

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