

# Accepted Manuscript

Free vibration analysis of cylindrical panels with spiral cross section

A. Taraghi Osguei , M.T. Ahmadian , M. Asghari , N.M. Pugno

PII: S0020-7403(16)30851-7  
DOI: [10.1016/j.ijmecsci.2017.07.044](https://doi.org/10.1016/j.ijmecsci.2017.07.044)  
Reference: MS 3843



To appear in: *International Journal of Mechanical Sciences*

Received date: 21 November 2016  
Revised date: 7 July 2017  
Accepted date: 19 July 2017

Please cite this article as: A. Taraghi Osguei , M.T. Ahmadian , M. Asghari , N.M. Pugno , Free vibration analysis of cylindrical panels with spiral cross section, *International Journal of Mechanical Sciences* (2017), doi: [10.1016/j.ijmecsci.2017.07.044](https://doi.org/10.1016/j.ijmecsci.2017.07.044)

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

## Highlights

- New formulation for vibration behavior of spiral cylinders is proposed.
- A general procedure is applied to analyze the effect of boundary conditions.
- Effect of separation distance in spiral cylinders on natural frequency is studied.
- New results on vibration characteristics of spiral cylinders are presented.
- Based on circular cylinders, a new technique is developed for spiral cylinders design.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5016021>

Download Persian Version:

<https://daneshyari.com/article/5016021>

[Daneshyari.com](https://daneshyari.com)