Accepted Manuscript

Nonlinear bending and vibration of functionally graded tubes resting on elastic foundations in thermal environment based on a refined beam model

Jun Zhong, Yiming Fu, Detao Wan, Yingli Li

PII:S0307-904X(16)30156-1DOI:10.1016/j.apm.2016.03.031Reference:APM 11099

To appear in:

Applied Mathematical Modelling

Received date:4 July 2015Revised date:26 December 2015Accepted date:23 March 2016

Please cite this article as: Jun Zhong, Yiming Fu, Detao Wan, Yingli Li, Nonlinear bending and vibration of functionally graded tubes resting on elastic foundations in thermal environment based on a refined beam model, *Applied Mathematical Modelling* (2016), doi: 10.1016/j.apm.2016.03.031

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

- A refined beam model for tubes which can meet the vanishing stress condition on inner and outer surfaces is established.
- Nonlinear bending and vibration are solved by employing a two-step perturbation technique.
- The temperature-dependent material properties are considered.

Download English Version:

https://daneshyari.com/en/article/5471311

Download Persian Version:

https://daneshyari.com/article/5471311

Daneshyari.com