

Accepted Manuscript

Thermal buckling and post-buckling analysis of functionally graded beams based on a general higher-order shear deformation theory

Gui-Lin She , Fuh-Gwo Yuan , Yi-Ru Ren

PII: S0307-904X(17)30163-4
DOI: [10.1016/j.apm.2017.03.014](https://doi.org/10.1016/j.apm.2017.03.014)
Reference: APM 11655



To appear in: *Applied Mathematical Modelling*

Received date: 1 December 2016
Revised date: 16 February 2017
Accepted date: 5 March 2017

Please cite this article as: Gui-Lin She , Fuh-Gwo Yuan , Yi-Ru Ren , Thermal buckling and post-buckling analysis of functionally graded beams based on a general higher-order shear deformation theory, *Applied Mathematical Modelling* (2017), doi: [10.1016/j.apm.2017.03.014](https://doi.org/10.1016/j.apm.2017.03.014)

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

- Thermal buckling analysis of FGM beams by various theories are presented.
- A two-step perturbation method is employed to determine the critical buckling loads and post-buckling equilibrium paths.
- The post-buckling equilibrium path for FGM beam with two clamped ends is also of the bifurcation type for any various displacement fields.

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/5470988>

Download Persian Version:

<https://daneshyari.com/article/5470988>

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