Accepted Manuscript

Modeling large amplitude vibration of matrix cracked hybrid laminated plates containing CNTR-FG layers

Z.X. Lei, L.W. Zhang, K.M. Liew

 PII:
 S0307-904X(17)30649-2

 DOI:
 10.1016/j.apm.2017.10.032

 Reference:
 APM 12033

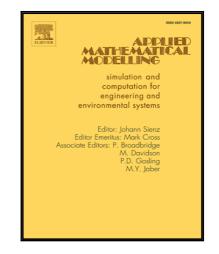
To appear in:

Applied Mathematical Modelling

Received date:12 April 2017Revised date:18 September 2017Accepted date:18 October 2017

Please cite this article as: Z.X. Lei, L.W. Zhang, K.M. Liew, Modeling large amplitude vibration of matrix cracked hybrid laminated plates containing CNTR-FG layers, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.10.032

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 numerical framework for large amplitude vibration analysis of matrix cracked hybrid laminated plates.
- Matrix crack is considered based on self-consistent model.
- We show that the crack density of matrix cracks plays an important role in vibration of hybrid laminated plates.
- Parametric studies are conducted to investigate effects of various parameters on nonlinear vibration responses.

Download English Version:

https://daneshyari.com/en/article/8051944

Download Persian Version:

https://daneshyari.com/article/8051944

Daneshyari.com