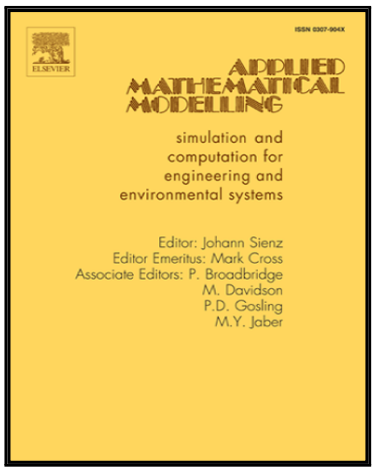
Accepted Manuscript



Vibration analysis of functionally graded plate with a moving mass

Qinghua Song , Jiahao Shi , Zhanqiang Liu

PII: S0307-904X(17)30079-3
DOI: 10.1016/j.apm.2017.01.073
Reference: APM 11571

To appear in: *Applied Mathematical Modelling*

Received date: 22 January 2016
Revised date: 25 December 2016
Accepted date: 16 January 2017

Please cite this article as: Qinghua Song , Jiahao Shi , Zhanqiang Liu , Vibration analysis of functionally graded plate with a moving mass, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.01.073

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

- Dynamic response of functionally graded plate with a moving mass is investigated.
- Rayleigh-Ritz solution together with penalty method is used.
- Differential quadrature method as a step-by-step time integration scheme is employed.
- Influences of material properties, boundary conditions, moving speeds and inertial effect are evaluated.

ACCEPTED MANUSCRIPT

Download English Version:

https://daneshyari.com/en/article/5471066

Download Persian Version:

https://daneshyari.com/article/5471066

Daneshyari.com