Accepted Manuscript

Propagation of Shear waves in Homogeneous and Inhomogeneous fibre-reinforced media on a cylindrical Earth model

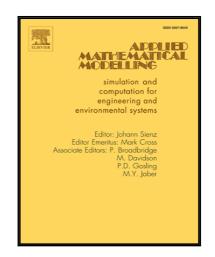
Moumita Mahanty, Amares Chattopadhyay, Sudarshan Dhua, Mita Chatterjee

PII: S0307-904X(17)30509-7 DOI: 10.1016/j.apm.2017.07.061

Reference: APM 11911

To appear in: Applied Mathematical Modelling

Received date: 29 July 2016 Revised date: 5 July 2017 Accepted date: 31 July 2017



Please cite this article as: Moumita Mahanty, Amares Chattopadhyay, Sudarshan Dhua, Mita Chatterjee, Propagation of Shear waves in Homogeneous and Inhomogeneous fibre-reinforced media on a cylindrical Earth model, *Applied Mathematical Modelling* (2017), doi: 10.1016/j.apm.2017.07.061

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.

ACCEPTED MANUSCRIPT

Highlights

- Shear wave propagations in the cylindrical structure are studied in fibre-reinforced media.
- Dispersion relations have been obtained in closed form analytically.
- Fibre-reinforcement, radial heterogeneity and radii ratio have significant effect on propagation.
- Special cases are established with or without having dimensionless parameters.
- Numerical computations are illustrated to show the effect of dimensionless parameters.

Download English Version:

https://daneshyari.com/en/article/5470741

Download Persian Version:

https://daneshyari.com/article/5470741

<u>Daneshyari.com</u>