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

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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.

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