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Vibration of a pre-stressed plate on a transversely isotropic multilayered half-plane due to a moving load

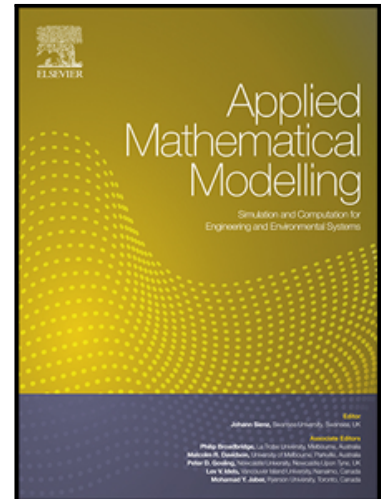
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Highlights

- The pre-stressed plate is governed by the Kirchhoff plate theory.
- The transversely isotropic multilayered half-plane is solved by the analytical layer-element method.
- The contact stress and the deflection of plate are derived by considering compatibility conditions.
- Influence of load speed, the rigidity of plate and the axial force applied on the plate is investigated.

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