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Transient response of a transversely isotropic multilayered half-space due to a vertical loading

Zhi Yong Ai , Chun Lin Liu , Li Hua Wang

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Highlights

- Governing equations are transformed into the fourth-order ordinary differential equations.
- Solutions for displacements are obtained by using the analytical layer-element method.
- The analytical layer-element excludes the positive exponential terms.
- Effect of loading type, anisotropy and layering of media on the transient response is investigated.

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