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Closed-form Solution Considering the Tangential Effect under Harmonic Line Load for an Infinite Euler-Bernoulli Beam on Elastic Foundation

Yu Miao , Yang Shi , Hanbin Luo , Rongxiong Gao

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Highlights

- Analytical solution for dynamic response of infinite beam on foundation is developed.
- The elastic foundation considered the horizontal tangential effect.
- Double Fourier transformation is used for deduction and the residue theorem is employed to obtain the solution.
- The analytical solution for the beam under inclined dynamic load is presented

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