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Complete semi-analytical solution for a uniformly moving mass on a beam on a two-parameter visco-elastic foundation with non-homogeneous initial conditions

Zuzana Dimitrovová

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Highlights

- semi-analytical solution for moving mass problem on infinite beams
- inclusion of non-homogeneous initial conditions
- determination of accurate full vibration shapes from the initial instant on
- identification of maximum induced amplitudes
- determination of the onset of instability and its severity

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