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An analytical-numerical solution to assess the dynamic response of viscoelastic plates to a moving mass

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**Highlights**

- Dynamic response of viscoelastic plates to a moving mass is investigated.
- The proposed method is applicable for any viscoelastic material with no restriction.
- The effect of material and foundation damping is accounted for.
- Different trajectories of the moving mass are examined.
- The effect of convective accelerations is also taken into account in the solution.

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