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An analytical solution for free liquid sloshing in a finite-length horizontal cylindrical container filled to an arbitrary depth

Seyyed M. Hasheminejad , H. Soleimani

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## Highlights

- Exact slosh analysis in an arbitrary-fill-depth finite horizontal cylindrical tank.
- Full data for slosh frequencies as functions of fill depth and container length.
- Extensive simulations exposing mode crossings among dissimilar frequency clusters.
- Deep insights via benchmark general simulations and comparisons with other data.

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