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COUPLED BOUNDARY ELEMENT METHOD AND FINITE ELEMENT METHOD FOR HYDROELASTIC ANALYSIS OF FLOATING PLATE

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Highlights

- Hydroelastic analysis using Hybrid method (BEM-FEM).
- Modified Green's Function which is newly formulated and differs from the available literature.
- Deflection of Floating elastic plate.
- Better simulation time and reduction in error has been observed in the results when compared with the available literature.
- Efficacy in the results has been improved by adopting modified Green's function in finite water depth and infinite water depth and the obtained results agrees with the available literature.

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