

## Accepted Manuscript

Scattering of surface gravity waves over a pair of trenches

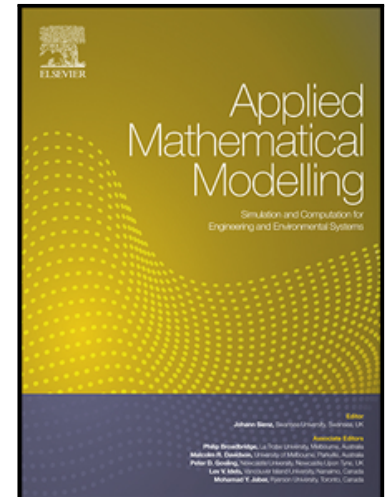
P. Kar, S. Koley, T. Sahoo

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**Highlights**

- A model using boundary element method is developed to study scattering of gravity waves by a pair of trenches.
- Known results in the literature for single trench are reproduced and validated.
- The problems are studied under small amplitude water wave theory in two-dimensions.
- The study reveals the occurrence of Bragg reflection in case of a multiple trenches.
- Number of sub-harmonic peaks in Bragg reflection is two less than the number of trenches

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