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A two-phase flow model for submarine granular flows: With an application to collapse of deeply-submerged granular columns

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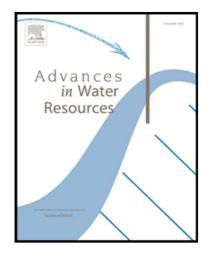
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Highlights

- \bullet Collapse of granular column is simulated using a liquid-solid two-phase flow model
- $\bullet\,$ A new model for particle response time is introduced to show initial-packing effect
- The role of dilatancy/contractancy in the collapse of granular column is revealed

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