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NUMERICAL SIMULATION

We study the interaction between surface gravity wave and our submerged device using a state of the art direct numerical simulation of the Navier-Stokes equation (NSE) in its twodimensional form with free boundary and moving bodies.

In order to properly describe the behaviour of the system, we need to simulate the full NSEs for multiphase flows with fluid-structure interaction; this approach allows for a complete and detailed evaluation of hydrodynamic forces acting on the resonators and of the energy dissipation.

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