The Huygens principle for flow around an arbitrary body in a viscous incompressible fluid

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Received 24-MAY-95
in revised form 02-AUG-95

The consequences of immersing a body in a Stokesian flow can be studied in the language employed in scattering research. After implementing the description of Stokesian flow in terms of velocity and pressure phasors, we formulate mathematical expressions delineating the Huygens principle for both phasors. Application is then made to scattering problems with special emphasis on impenetrable bodies.

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