



Theoretical and Numerical Marine Hydrodynamics

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Message from the Guest Editors

Marine hydrodynamics is one of fundamental research fields in marine technology for understanding the ocean environment and designing marine vehicles and structures. Ocean waves are the most basic consideration in the design of marine vehicles and offshore platforms, which experience various motion responses and environmental loads. Such ocean waves and environmental loads are random processes, to which theoretical and numerical methods have been extensively applied. Furthermore, an understanding of fluid flows around marine vehicles or offshore structures is an essential element in the design of optimum shapes, alignments, and dimensions.

Keywords

- marine hydrodynamics
- theoretical hydrodynamics
- numerical hydrodynamics
- CFD
- ocean waves
- wave loads
- flows around ships and offshore structures

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Message from the Editor-in-Chief

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