



# Hydrodynamics of High-Speed Marine Vehicles

*Odd M. Faltinsen*

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## **Hydrodynamics of High-Speed Marine Vehicles** Odd M. Faltinsen

This volume considers hydrodynamic aspects of the three main categories of high-speed marine vehicles, i.e. vessels supported by either the submerged hull, an air cushion, or foils. (Submerged-hull-supported vessels include planing and semi-displacement vessels.) The wave environment, resistance, propulsion, seakeeping, sea loads, and maneuvering are extensively covered based on rational and simplified methods. Links to automatic control and structural mechanics are emphasized. A detailed description of waterjet propulsion is given, and the effect of water depth on wash, resistance, sinkage, and trim is discussed. The book contains many illustrations, examples, and exercises.

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