

# Hydrodynamics Of High-speed Marine Vehicles

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Hydrodynamics of High-Speed Marine Vehicles discusses how ocean waves and the water flow affect high-speed vessels. Hydrodynamics of High-Speed Marine Vehicles discusses the three main categories of high-speed marine vehicles - vessels supported by submerged hulls, air cushions or foils. The wave environment, resistance, propulsion, seakeeping, sea loads and manoeuvring 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. Chapter topics include resistance and wash, slamming, air cushion-supported vessels, including a detailed discussion of wave-excited resonant oscillations in air cushion, and hydrofoil vessels. The book contains numerous illustrations, examples and exercises. EAN/ISBN : 9780511133633 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Faltinsen, Odd M.

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