

Principles Of Naval Architecture

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While covering basic principles, such as hull geometry, propulsion, and stability, the book also addresses contemporary topics, such as computer aided design and computer aided manufacture (CAD/CAM). The new edition reflects the continuing developments in technology, changes in international regulations and recent research.

Introduction to Naval Architecture | ScienceDirect

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This book presents a comprehensive and up-to-date treatment of propeller analysis and design, including beginning with an introduction to various types of marine propulsion machinery, definitions of powers and efficiencies, and two- and three-dimensional airfoil theory. A section on three-dimensional hydrofoil theory introduces wake vortex sheets and three-dimensional vortex lines. These discussions topics are followed by linear lifting line- and lifting surface theory with both exact and approximate solution methods-including properties of helicoidal vortex sheets, optimum and arbitrary circulation distributions, and the Lerbs induction factor method. There are sections on model testing of propellers, propeller strength and followed by selection and design using both standard series charts and by circulation theory. The final section discusses ship standardization trials, their purpose, measurement methods and instruments, concluding with the analysis of trial data and derivation of the model-ship correlation allowance.

This volume contains a completely new presentation of the subject of ship resistance embodying these developments. A major goal in the

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design of virtually all vessels is to obtain a hull form having low resistance. In achieving this goal, the accurate prediction of resistance for a given hull geometry is essential. Since the publication of the previous edition of PNA important advances have been made in theoretical and computational fluid dynamics accompanied by increased use of such work in ship and offshore structure design.

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