

Manoeuvrability and Safety of Ships

CARMINE G. BIANCARDI



Maneuverability and Safety of Ships

This book delivers a strong tool for understanding ship maneuverability and controllability and its links to Safety. If from one side the writing style is educational and with a clear engineering focus, this book is also a support for the Naval Architect and the Ship Designer as well as for the Operator willing to improve the design, the building and the operational safety of new and existing ships. The book is recommended for the academia, the student, the naval architect, the engineer and the designer, as well as for people interested in ship maneuvering and its links with safety. The book begins by performing a critical review of existing approaches for dealing with Ship Maneuverability and Ship Safety before considering fresh understandings of these terms. Different attempts to integrate Safety with Maneuverability are then examined. The weak features of these attempts are considered and scope for developing fresh approaches is then presented. This is followed by an explanation of alternative new ways of treating a ship's maneuverability. In order to meet the requirements for operational specifications and safety in a cost-effective way, the book proposes an approach for relating Safety with Maneuverability in the appropriate, and all, phases of a ship's life cycle. The approach is based on a preventive Safety Methodology while introducing fresh, but consolidated, indices and criteria for assessing the ship's maneuverability. Two case examples are used to show how the methodology can be readily applied and how it offers an effective approach for designing and operating ships that can meet improved maneuvering-safety requirements. One case example studies a dry cargo ship while the other studies a service ship.

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