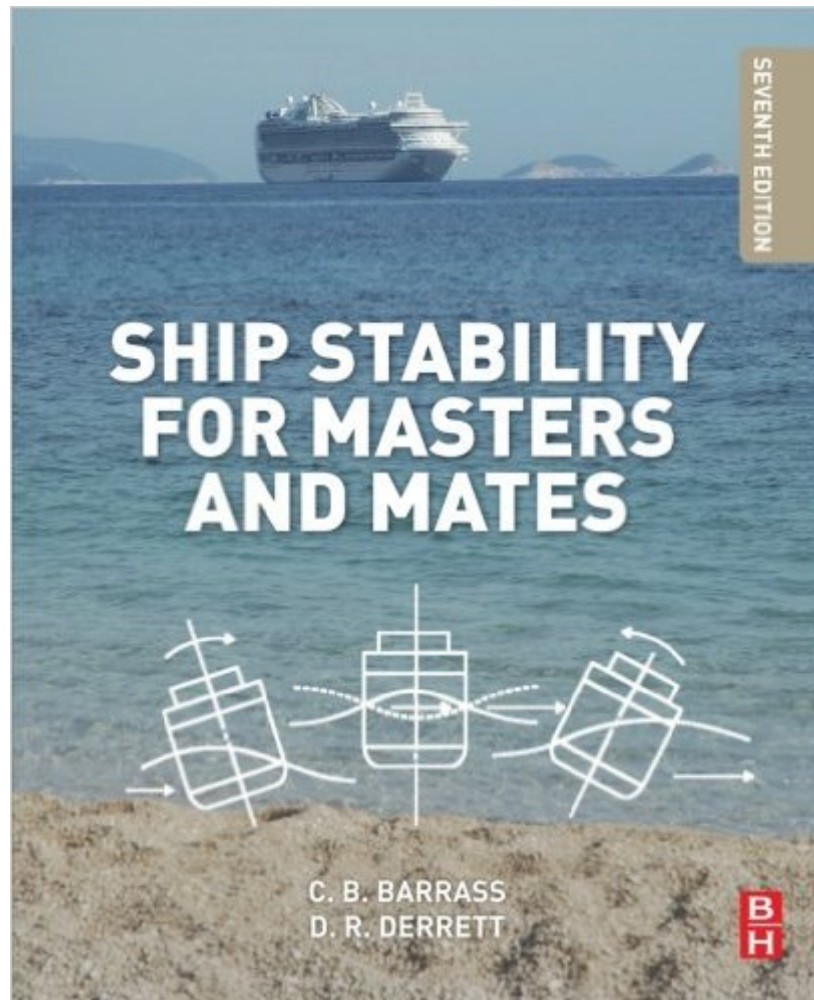




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Ship Stability For Masters And Mates, Seventh Edition



Synopsis

Ship Stability for Masters and Mates explores all aspects of ship stability and ship strength, squat, and interaction and trim, as well as materials stresses and forces. Organized into 56 chapters, the book looks at the relationship between ship stability and ship motion, with emphasis on group weights in a ship. It also explains how TPCs are calculated for a range of drafts extending beyond the light and loaded drafts, along with form coefficients, including the coefficient of fineness of the waterplane area. The book explains how to perform KB, BM, and KM calculations and make graphics on metacentric diagrams. It considers large-angle stability, the effect of beam and freeboard on stability, and hydrostatic curves and values for vessels that are initially on even keel. The reader is also introduced to free-surface effects of slack tanks with divisional bulkheads, how side winds affect ship stability, and the correlation between freeboard and stability curves. Other chapters focus on timber ship freeboard marks, procedures and calculations for drydocking and stability, and ship squat in open water and in confined channels. The book also includes extracts from the 1998 Merchant Shipping (Load Line) Regulations Number MSN 1752(M). This book is intended for students seeking to obtain Transport Certificates of Competency for Deck Officers and Engineering Officers and STCW equivalent International qualifications, as well as Chief Mates and Officers on Watch (Officers in Charge) on board merchant ships and other maritime personnel, port authorities, marine consultants, nautical study lecturers, and marine superintendents. Updated throughout to include new shipping industry developments and regulations, with 9 new chapters, the latest ship stability datasheets, and sample exam questions Provides a comprehensive introduction to all aspects of ship stability and ship strength, squat, interaction and trim, materials stresses and forces Concepts are supported with numerous worked examples, clear diagrams, graphs and equations to assist with understanding and application of this critical subject

Book Information

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"British specialists in marine technology (Barrass) and navigation (Derrett) provide a resource for students studying for their Transport Certificates of Competency for Deck Officers and Engineering Officers and STCW equivalent international qualification. Primarily for chief mates and officers on watch on board merchant ships, it focuses on linking ship stability with ship motions."--Reference & Research Book News, October 2013 "the book provides a comprehensive treatment of the subject with full supporting data. It is well written with clear illustrations. It can be thoroughly recommended to those at whom it is aimed and many others associated with the operation of ships will benefit from reading it."--The Naval Architect, January 2013

Ship stability for Masters and Mates, now in its seventh edition provides a comprehensive introduction to all aspects of ship stability with numerous worked examples to assist masters, mates and engineering officers with qualifications and professional practice. New coverage includes content on new materials used in ship construction, developing methods of propulsion and the latest research into resistance. Unique features include: 30% new content including chapters on new materials used in ship design, methods of propulsion, and the latest research into resistance Comprehensive introduction to all aspects of ship stability and ship strength, squat, interaction and trim, materials stresses and forces Numerous worked examples and clear diagrams to assist understanding of this critical subject Ship Stability for Masters and Mates is required reading for seafarers and students alike and an important resource for naval architecture students, shipboard officers and shore-based staff, including dry-dock personnel, ship-designers, ship surveyors, port authorities, marine consultants and superintendents. Downloadable spreadsheets to accompany the book can be found at <http://booksite.elsevier.com/9780080970936/>

Very detailed. Lots of Q and A with work shown to be able to find out how the solutions were derived.

Good book, lots of examples and easy to follow.

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