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Nota di contenuto	Cover; copyright; Contents; front matter; Acknowledgements; Preface; Note; Introduction; Changes to the Sixth edition; body; 1 Forces and moments; 2 Centroids and the centre of gravity; 3 Density and specific gravity; 4 Laws of flotation; 5 Group weights, water draft, air draft and density; 6 Transverse statical stability; 7 Effect of free surface of liquids on stability; 8 TPC and displacement curves; 9 Form coefficients; 10 Simpson's Rules for areas and centroids; 11 Second moments of area - moments of inertia; 12 Calculating KB, BM and metacentric diagrams 13 Final KG plus twenty reasons for a rise in G14 Angle of list; 15 Moments of statical stability; 16 Trim or longitudinal stability; 17 Stability and hydrostatic curves; 18 Increase in draft due to list; 19 Water pressure; 20 Combined list and trim; 21 Calculating the effect of free surface of liquids (FSE); 22 Bilging and permeability; 23 Dynamical stability; 24 Effect of beam and freeboard on stability; 25 Effects of side winds on stability; 26 Icing allowances plus effects on trim and stability 27 Type A, Type B and Type (B-60) vessels plus FL and PL curves (as governed by DfT regulations)28 Load lines and freeboard marks; 29 Timber ship freeboard marks; 30 IMO Grain Rules for the safe carriage of grain in bulk; 31 Angle of loll; 32 True mean draft; 33 The inclining experiment plus fluctuations in a ship's lightweight; 34 The calibration book plus soundings and ullages; 35 Drydocking and grounding; 36

Liquid pressure and thrust plus centres of pressure; 37 Ship squat in open water and in confined channels; 38 Interaction, including two case studies; 39 Heel due to turning
40 Rolling, pitching and heaving motions
41 Synchronous rolling and parametric rolling of ships; 42 List due to bilging side compartments; 43 Effect of change of density on draft and trim; 44 List with zero metacentric height; 45 The deadweight scale; 46 The Trim and Stability book; 47 Simplified stability information; 48 The stability pro-forma; Nomenclature of ship terms; Photographs of merchant ships; Ships of this millennium; 49 Bending of beams; 50 Bending of ships; 51 Strength curves for ships; 52 Bending and shear stresses; 53 Draft Surveys
54 Quality control plus the work of ship surveyors
55 Extracts from the 1998 Merchant Shipping (Load Line) Regulations Reference Number MSN 1752 (M); 56 Keeping up to date; I Summary of stability formulae; II SQA/MCA 2004 syllabuses for masters and mates; III Specimen exam questions with marking scheme; IV 100 Revision one-liners; V How to pass exams in maritime studies; back matter; References; Answers to exercises; Index

Sommario/riassunto

Understanding ship stability is critical for all maritime students or professionals who are studying for a deck or engineering certificate of competency, or seeking promotion to a higher rank within any branch of the merchant marine or Navy. The sixth edition of the now classic 'Ship Stability' provides a comprehensive introduction to all aspects of ship stability and ship strength, squat, interaction and trim, materials stresses and forces.* The market leading ship stability text, widely used at sea and on shore* New content includes coverage of now-mandatory double-skin tankers an
