



Practical Ship Hydrodynamics

By Volker Bertram

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2011. Paperback. Book Condition: New. 2nd Revised edition. 235 x 191 mm. Brand New Book. Practical Ship Hydrodynamics provides a comprehensive overview of hydrodynamic experimental and numerical methods for ship resistance and propulsion, maneuvering, seakeeping and vibration. Beginning with an overview of problems and approaches, including the basics of modeling and full scale testing, expert author Volker Bertram introduces the marine applications of computational fluid dynamics and boundary element methods. Expanded and updated, this new edition includes: otherwise disparate information on the factors affecting ship hydrodynamics, combined to provide one practical, go-to resource; full coverage of new developments in computational methods and model testing techniques relating to marine design and development; and, new chapters on hydrodynamic aspects of ship vibrations and hydrodynamic options for fuel efficiency, and increased coverage of simple design estimates of hydrodynamic quantities such as resistance and wake fraction. With a strong focus on essential background for real-life modeling, this book is an ideal reference for practicing naval architects and graduate students. It combines otherwise disparate information on the factors affecting ship hydrodynamics into one practical, go-to resource for successful design, development and construction. It is updated throughout to cover the developments...



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