

1. Record Nr.	UNINA9910813071803321
Autore	Molland Anthony F
Titolo	Ship resistance and propulsion : practical estimation of ship propulsive power // Anthony F. Molland, Stephen R. Turnock, Dominic A. Hudson
Pubbl/distr/stampa	Cambridge ; ; New York, : Cambridge University Press, 2011
ISBN	1-139-08873-4 1-107-21650-8 1-68015-678-0 1-139-09020-8 1-280-77596-3 1-139-09251-0 9786613686350 1-139-09111-5 1-139-09302-9 1-139-09200-6 0-511-97411-6
Edizione	[1st ed.]
Descrizione fisica	1 online resource (xxvi, 537 pages) : digital, PDF file(s)
Classificazione	TEC009070
Altri autori (Persone)	TurnockStephen R HudsonDominic A
Disciplina	623.8/12
Soggetti	Ship resistance Ship resistance - Mathematical models Ship propulsion Ship propulsion - Mathematical models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from publisher's bibliographic system (viewed on 05 Oct 2015).
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Machine generated contents note: 1. Introduction; 2. Propulsive power; 3. Components of ship resistance; 4. Model-ship extrapolation; 5. Model-ship correlation; 6. Restricted water depth and breadth; 7. Measurements of resistance components; 8. Wake and thrust deduction; 9. Numerical estimation of ship resistance; 10. Resistance design data; 11. Propulsor types; 12. Propeller characteristics; 13. Powering process; 14. Hull from design; 15. Numerical methods for propeller analysis; 16. Propulsor design data; 17. Applications.

Ship Resistance and Propulsion provides a comprehensive approach to evaluating ship resistance and propulsion. Informed by applied research, including experimental and CFD techniques, this book provides guidance for the practical estimation of ship propulsive power for a range of ship types. Published standard series data for hull resistance and propeller performance enables practitioners to make ship power predictions based on material and data contained within the book. Fully worked examples illustrate applications of the data and powering methodologies; these include cargo and container ships, tankers and bulk carriers, ferries, warships, patrol craft, work boats, planing craft and yachts. The book is aimed at a broad readership including practising naval architects and marine engineers, seagoing officers, small craft designers, undergraduate and postgraduate students. Also useful for those involved in transportation, transport efficiency and ecologistics who need to carry out reliable estimates of ship power requirements.
