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# **Hydrodynamic Design Of Ship Hull Shapes By Methods Of**

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This report is part of a series of reports that summarize this regular event. The report discusses research developments in ship design, construction, and operation in a forum that encouraged both formal and

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informal discussion of presented papers.

A textbook that offers a unified treatment of the applications of hydrodynamics to marine problems. The applications of hydrodynamics to naval

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architecture and marine engineering expanded dramatically in the 1960s and 1970s. This classic textbook, originally published in 1977, filled the need for a single volume on the applications of hydrodynamics

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to marine problems. The book is solidly based on fundamentals, but it also guides the student to an understanding of engineering applications through its consideration of realistic configurations. The book takes a

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balanced approach between theory and empirics, providing the necessary theoretical background for an intelligent evaluation and application of empirical procedures. It also serves as an introduction to more specialized

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research methods. It unifies the seemingly diverse problems of marine hydrodynamics by examining them not as separate problems but as related applications of the general field of hydrodynamics. The book evolved

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from a first-year graduate course in MIT's Department of Ocean Engineering. A knowledge of advanced calculus is assumed. Students will find a previous introductory course in fluid dynamics helpful, but the book



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presents the necessary fundamentals in a self-contained manner. The 40th anniversary of this pioneering book offers a foreword by John Grue. Contents  
Model Testing • The Motion of a Viscous Fluid • The Motion of an

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Ideal Fluid • Lifting Surfaces •  
Waves and Wave Effects •  
Hydrodynamics of Slender Bodies  
The Twenty-Second Symposium  
on Naval Hydrodynamics was held  
in Washington, D.C., from August  
9-14, 1998. It coincided with the

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100th anniversary of the David Taylor Model Basin. This international symposium was organized jointly by the Office of Naval Research (Mechanics and Energy Conversion S&T Division), the National Research Council

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(Naval Studies Board), and the Naval Surface Warfare Center, Carderock Division (David Taylor Model Basin). This biennial symposium promotes the technical exchange of naval research developments of

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common interest to all the countries of the world. The forum encourages both formal and informal discussion of the presented papers, and the occasion provides an opportunity for direct communication between

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international peers.

Hydrodynamics for High-Speed  
Vessels

Mitochondrial Medicine  
Proceedings

Quest for Performance

Hydrodynamics of High-Speed

# Read Free Hydrodynamic Design Of Ship Hull Shapes By Methods Of Marine Vehicles

## Hydroelasticity of Ships

Although the primary audience for this book is undergraduate university students studying naval architecture and marine engineering, the content

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will certainly be of interest to most designers working with high-speed craft. Author Donald L Blount says, "My intent has been to share the technical information, decision criteria, rules of thumb,



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and the opinionated experiences which have helped me in making choices for developing marine craft intended to operate beyond displacement speeds."

According to Blount, Chapter One is a reprise of his

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article "Original Speed,"  
(Professional BoatBuilder  
magazine, June/July 2008)  
followed by nine chapters of  
"science, my skewed views of  
science, a few things I  
don't understand,  
definitions of things on

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which no two naval architects will agree, design criteria which have been my friend, and guidance on design procedures embracing technology." This book also includes numerous graphs, charts, tables, and

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formulas to clarify the material in the text. He encourages you to personalize your copy with your own notes to make it even more valuable as a reference source and has included ample space for

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adding comments. ABOUT THE  
AUTHOR: Donald L Blount is  
the founder of Donald L.  
Blount and Associates, Inc.  
(Chesapeake, Virginia).  
During his 50-plus year  
career, he has designed  
numerous noteworthy vessels

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including the 67.7 m (222 ft) Destriero, which holds the non-refueled Atlantic crossing record, set in 1992 with an average speed of 53.1 knots earning the coveted Blue Ribband shown here. Registered as a

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professional engineer in two states, Blount is a fellow of both SNAME and RINA. He has served as Head of the Department of the U.S. Navy's Combatant Craft Engineering Department and also was employed at the

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David Taylor Model Basin. He has co-authored more than 50 papers and articles.

Engineering mathematics is a branch of applied mathematics where mathematical methods and techniques are implemented



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for solving problems related to the engineering and industry. It also represents a multidisciplinary approach where theoretical and practical aspects are deeply merged with the aim at obtaining optimized

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solutions. In line with that, the present Special Issue, 'Engineering Mathematics in Ship Design', is focused, in particular, with the use of this sort of engineering science in the design of ships and vessels.

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Articles are welcome when applied science or computation science in ship design represent the core of the discussion.

This book describes the latest findings related to fuzzy techniques, discussing

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applications in control,  
economics, education, humor  
studies, industrial  
engineering, linguistics,  
management, marketing,  
medicine and public health,  
military engineering,  
robotics, ship design,

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sports, transportation, and many other areas. It also presents recent fuzzy-related algorithms and theoretical results that can be used in other application areas. Featuring selected papers from the Joint World

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Congress of the  
International Fuzzy Systems  
Association (IFSA) and the  
Annual Conference of the  
North American Fuzzy  
Information Processing  
Society (NAFIPS) IFSA-  
NAFIPS'2019, held in

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Lafayette, Louisiana, USA,  
on June 18–21, 2019, the  
book is of interest to  
practitioners wanting to use  
fuzzy techniques to process  
imprecise expert knowledge.  
It is also a valuable  
resource for researchers

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wishing to extend the ideas from these papers to new application areas, for graduate students and for anyone else interested in problems involving fuzziness and uncertainty.

Eighth International



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Symposium - PRADS 2001 (2  
Volume set)

Numerical Ship Hydrodynamics  
High Speed Catamarans and  
Multihulls

Engineering Mathematics in  
Ship Design

Marine Design XIII, Volume 2

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Marine Structures Research

Recommendations

*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*

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*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*

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*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*

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*designers, undergraduate and postgraduate students. Also useful for those involved in transportation, transport efficiency and ecologists who need to carry out reliable estimates of ship power requirements.*

*Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may*

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*have the corners slightly dented, may have slight color changes/slightly damaged spine.*

*The form, hydrodynamic design, and predicted performance of the 190-ton Stable Semisubmerged Platform (SSP) are described and analyzed. Design criteria are presented for the twin*

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*submerged hulls, four surface-piercing struts, bow section of the above-water cross structure, aft stabilizing fin and flaps, forward-mounted canard control surfaces, rudders, and the controllable and reversible propellers. Hydrodynamic loads and motion in waves are analyzed. The overall design is evaluated in light of*

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*design experience, model test results, and preliminary operating experience with the 190-ton SSP. The 190-ton SSP is shown to have significantly reduced motion in waves, increased rough-water speed and more deck space and internal volume than conventional monohulls. (Author).*



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*Design Principles of Ships and Marine  
Structures*

*Proceedings of the 2019 Joint World  
Congress of the International Fuzzy  
Systems Association and the Annual  
Conference of the North American Fuzzy  
Information Processing Society  
IFSA/NAFIPS'2019 (Lafayette,*

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*Louisiana, USA, June 18–21, 2019)*

*Naval Hydrodynamics: Unconventional  
ships. Ocean engineering*

*Naval Hydrodynamics*

*Twenty-Second Symposium on Naval  
Hydrodynamics*

*Progress in Industrial Mathematics at  
ECMI 96*

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*In 1974, a scientific conference covering marine automation group and large vessels issues was organized under the patronage of the Technical Naval Studies Centre (CETENA) and the Italian National Research Council (CNR). A later collaboration with the*

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*Marine Technical Association*

*(ATENA) led to the renaming of the conference as NAV, extending the topics covered to the technical field previously covered by ATENA national conferences. The NAV conference is now held every 3 years, and attracts*

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*specialists from all over the world.*

*This book presents the proceedings of NAV 2018, held in Trieste, Italy, in June 2018. The book contains 70 scientific papers, 35 technical papers and 16 reviews, and subjects covered include: comfort on board; conceptual*

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*and practical ship design; deep sea mining and marine robotics; protection of the environment; renewable marine energy; design and engineering of offshore vessels; digitalization, unmanned vehicles and cyber security; yacht and pleasure craft design and*

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*inland waterway vessels. With its comprehensive coverage of scientific and technical maritime issues, the book will be of interest to all those involved in this important industry. This is volume 2 of a 2-volume set. Marine Design XIII collects the*

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*contributions to the 13th International Marine Design Conference (IMDC 2018, Espoo, Finland, 10-14 June 2018). The aim of this IMDC series of conferences is to promote all aspects of marine design as an engineering discipline. The focus is on key design*



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*challenges and opportunities in the  
area of current maritime technologies  
and markets, with special emphasis on:*

- Challenges in merging ship design  
and marine applications of experience-  
based industrial design •*

*Digitalisation as technological enabler*

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*for stronger link between efficient design, operations and maintenance in future • Emerging technologies and their impact on future designs • Cruise ship and icebreaker designs including fleet compositions to meet new market demands To reflect on the conference*

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*focus, Marine Design XIII covers the following research topic series: •State of art ship design principles - education, design methodology, structural design, hydrodynamic design; •Cutting edge ship designs and operations - ship concept design, risk*

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*and safety, arctic design, autonomous ships; •Energy efficiency and propulsions - energy efficiency, hull form design, propulsion equipment design; •Wider marine designs and practices - navy ships, offshore and wind farms and production. Marine*

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*Design XIII contains 2 state-of-the-art reports on design methodologies and cruise ships design, and 4 keynote papers on new directions for vessel design practices and tools, digital maritime traffic, naval ship designs, and new tanker design for arctic.*

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*Marine Design XIII will be of interest to academics and professionals in maritime technologies and marine design.*

*This book explores computational fluid dynamics applied to ship hydrodynamics and provides*

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*guidelines for the future developments in the field based on the Tokyo 2015 Workshop. It presents ship hull test cases, experimental data and submitted computational methods, conditions, grids and results. Analysis is made of errors for global (resistance, sinkage,*

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*trim and self-propulsion) and local flow (wave elevations, mean velocities and turbulence) variables, including standard deviations for global variables. The effects of grid size and turbulence models are evaluated for both global and local flow variables.*



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*Detailed analysis is made of turbulence modeling capabilities for capturing local flow physics. Errors and standard deviations are also assessed for added resistance (captive test cases) and course keeping/speed loss (free running test cases) in head*

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*and oblique waves. All submissions are used to evaluate the error and uncertainty by means of a systematic verification and validation (V&V) study along with statistical investigations.*

*Automatic Ship Hull Surface*

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Methods Of

*Modeling and Hydrodynamic  
Optimization*

*Marine Design XIII*

*Practical Design of Ships and Other  
Floating Structures*

*Fluid Mechanics, Ship Resistance and  
Propulsion*

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*Fundamentals of Ship Hydrodynamics  
Technology and Science for the Ships  
of the Future*

***This book gathers the peer-  
reviewed proceedings of the  
14th International  
Symposium, PRADS 2019,***

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***held in Yokohama, Japan, in  
September 2019. It brings  
together naval architects,  
engineers, academic  
researchers and  
professionals who are  
involved in ships and other***

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***floating structures to share  
the latest research advances  
in the field. The contents  
cover a broad range of  
topics, including design  
synthesis for ships and  
floating systems, production,***

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***hydrodynamics, and  
structures and materials.***

***Reflecting the latest  
advances, the book will be of  
interest to researchers and  
practitioners alike.***

***Ship optimization design is***

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***critical to the preliminary design of a ship. With the rapid development of computer technology, the simulation-based design (SBD) technique has been introduced into the field of***



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***ship design. Typical SBD consists of three parts: geometric reconstruction; CFD numerical simulation; and optimization. In the context of ship design, these are used to alter the shape***

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***of the ship, evaluate the objective function and to assess the hull form space respectively. As such, the SBD technique opens up new opportunities and paves the way for a new method for***

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***optimal ship design. This book discusses the problem of optimizing ship's hulls, highlighting the key technologies of ship optimization design and presenting a series of hull-***

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***form optimization platforms.  
It includes several improved  
approaches and novel ideas  
with significant potential in  
this field***

***Mitochondrial dysfunction is  
increasingly being***

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***recognized as the basis of a wide variety of human diseases. Providing an authoritative update on our current knowledge of mitochondrial medicine, this text draws together world***

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***authorities from various fields to present general therapeutic strategies, as well as the treatments presently available in different specialties - thus making it essential reading***

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***for clinicians involved with  
the management of patients  
with mitochondrial diseases.  
A unique work, this text  
covers a range of specialties,  
including cardiology,  
ophthalmology, otology,***

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***nephrology,  
gastroenterology,  
hematology-oncology, and  
reproductive medicine, and  
does not focus exclusively on  
the more commonly known  
neurologic conditions. An***



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***accessible, user-friendly  
text, it also presents  
translational concepts of  
mitochondrial biogenesis  
and genetics in vignettes  
related to specific questions  
raised by the disease under***

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***discussion, rather than concentrating on basic science, which can often intimidate clinicians. This pioneering work is primarily directed to a clinical audience who are interested***

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***in the diverse and  
diagnostically challenging  
clinical presentations of  
mitochondrial diseases and  
their pathophysiology.  
Practical Estimation of  
Propulsive Power***

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***A Holistic Approach to Ship  
Design***

***The Application of Advanced  
Hydrodynamic Analyses in  
Ship Design***

***Volume 1: Optimisation of  
Ship Design and Operation***

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***for Life Cycle***

***Technology, Performance,  
and Applications***

***Hydrodynamics of Ship  
Propellers***

***Technical introduction to ship  
propeller hydrodynamics, for***

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***researchers in ocean  
technology, naval  
architecture, mechanical  
engineering.***

***The Definitive Reference for  
Designers and Design  
Students A solid grasp of the  
fundamentals of materials,***

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***along with a thorough understanding of load and design techniques, provides the components needed to complete a marine platform design. Design Principles of Ships and Marine Structures details every facet of ship***

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***design and design integration, and highlights the design aspects that must be put together to create an integrated whole product. This book discusses naval architecture and marine engineering applications and***



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***principles relevant to the design of various systems, examines advanced numerical techniques that can be applied to maritime design procedure at the concept design stage, and offers a comprehensive approach to***

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***the subject of ship design.  
Covers the Entire Sphere of  
Marine Design The book  
begins with an introduction to  
marine design and the marine  
environment, describing many  
of the marine products that  
are used for transportation,***

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***defense and the exploitation of marine resources. It also discusses stability issues relevant to ship design, as well as hydrodynamic aspects of resistance, propulsion, sea keeping and maneuvering, and their effects on design. In***

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***addition to covering the various systems and sub-systems that go into making a complex product to be used in maritime environment, the author explains engineering economics and its application in ship design, and provides***

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***examples wherever necessary.***

***Written by an author with  
more than 35 years of  
teaching experience, this  
book: Describes various  
design methodologies such as  
sequential design process  
with the application of***

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***concurrent engineering and set based design factors in the use of computer-aided design techniques Highlights the shape design methodology of ship forms and layout design principles Considers design aspects relative to safety and***

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***risk assessment Introduces  
the design for production  
aspects in marine product  
development Discusses design  
principles for sustainability  
Explains the principles of  
numerical optimization for  
decision-making Design***

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***Principles of Ships and Marine Structures focuses on ship design efficiency, safety, sustainability, production, and management, and appeals to students and design professionals in the field of shipping, shipbuilding and***



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***offshore engineering.***

***Practical Ship Hydrodynamics  
provides a comprehensive  
overview of hydrodynamic  
experimental and numerical  
methods for ship resistance  
and propulsion, maneuvering,  
seakeeping and vibration.***

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***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***

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***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***

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***coverage of new developments  
in computational methods and  
model testing techniques  
relating to marine design and  
development. New chapters  
on hydrodynamic aspects of  
ship vibrations and  
hydrodynamic options for fuel***

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***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***

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***ideal reference for practicing  
naval architects and graduate  
students.***

***Submarine Hydrodynamics  
First International  
Symposium on Computer-  
Aided Hull Surface Definition,  
Annapolis, Md., September***

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**26-27, 1977**

***Ship Resistance and  
Propulsion***

***An Assessment of the Tokyo  
2015 Workshop***

***Parametric Design and  
Hydrodynamic Optimization of  
Ship Hull Forms***

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***Recommendations for the  
Interagency Ship Structure  
Committee's FYs 1998-1999  
Research Program***

This book covers specific aspects of submarine hydrodynamics in a very practical manner. The author reviews basic concepts of ship hydrodynamics



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and goes on to show how they are applied to submarines, including a look at the use of physical model experiments. The book is intended for professionals working in submarine hydrodynamics, as well as for advanced students in the field. This revised edition includes updated

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information on empirical methods for predicting the hydrodynamic manoeuvring coefficients, and for predicting the resistance of a submarine. It also includes new material on how to assess propulsors, and includes measures of wake distortion, which has a detrimental

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influence on propulsor performance. Additional information on safe manoeuvring envelopes is also provided. The wide range of references has been updated to include the latest material in the field. Hydrodynamics of High-Speed Marine Vehicles, first published in 2006,

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discusses the three main categories of high-speed marine vehicles - vessels supported by submerged hulls, air cushions or foils. The wave environment, resistance, propulsion, seakeeping, sea loads and manoeuvring are extensively covered based on rational and simplified

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methods. Links to automatic control and structural mechanics are emphasized. A detailed description of waterjet propulsion is given and the effect of water depth on wash, resistance, sinkage and trim is discussed. Chapter topics include resistance and wash; slamming; air

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cushion-supported vessels, including a detailed discussion of wave-excited resonant oscillations in air cushion; and hydrofoil vessels. The book contains numerous illustrations, examples and exercises.

High speed catamaran and multihull high speed marine vessel have

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become very popular in the last two decades. The catamaran has become the vessel of choice for the majority of high speed ferry operators worldwide. There have been significant advances in structural materials, and structural design has been combined with higher power density and fuel efficient

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engines to deliver ferries of increasing size. The multihull has proven itself to be a suitable configuration for active power projection across oceans as well as for coastal patrol and protection, operating at high speedd for insertion or retrieval with a low energy capability. At present there is



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no easily accessible material covering the combination of hydrodynamics, aerodynamics, and design issues including structures, powering and propulsion for these vehicles.

Coverage in High Speed Catamarans and Multihulls includes an introduction to the history, evolution, and

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development of catamarans, followed by a theoretical calculation of wave resistance in shallow and deep water, as well as the drag components of the multihull. A discussion of vessel concept design describing design characteristics, empirical regression for determination of principal

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dimensions in preliminary design, general arrangement, and methods is also included. The book concludes with a discussion of experimental future vehicles currently in development including the small waterplane twin hull vessels, wave piercing catamarans, planing

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catamarans, tunnel planing  
catamarans and other multihull  
vessels.

Proceedings of the 13th International  
Marine Design Conference (IMDC  
2018), June 10-14, 2018, Helsinki,  
Finland

Twenty-Third Symposium on Naval

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Hydrodynamics

Marine Hydrodynamics, 40th  
anniversary edition

A Hydrodynamic Hull Form Design  
Procedure in Conceptual and  
Preliminary Ship Design

Impact of Hydrodynamics Theory  
Upon Design Practice, with Emphasis

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on High Performance And/or Energy  
Saving Ships : Thirteenth Symposium  
Fuzzy Techniques: Theory and  
Applications

This book introduces a holistic  
approach to ship design and  
its optimisation for life-cycle

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operation. It deals with the scientific background of the adopted approach and the associated synthesis model, which follows modern computer aided engineering (CAE) procedures. It integrates

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techno-economic databases,  
calculation and multi-objective  
optimisation modules and s/w  
tools with a well-established  
Computer-Aided Design (CAD)  
platform, along with a Virtual  
Vessel Framework (VVF),



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which will allow virtual testing before the building phase of a new vessel. The resulting graphic user interface (GUI) and information exchange systems enable the exploration of the huge design

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space to a much larger extent and in less time than is currently possible, thus leading to new insights and promising new design alternatives. The book not only covers the various stages of

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the design of the main ship system, but also addresses relevant major onboard systems/components in terms of life-cycle performance to offer readers a better understanding of suitable

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outfitting details, which is a key aspect when it comes the outfitting-intensive products of international shipyards. The book disseminates results of the EU funded Horizon 2020 project HOLISHIP.

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This provides access to a NASA History Office publication, NASA SP-468, by Laurence K. Loftin, Jr, NASA Scientific and Technical Information Branch, Washington, D.C. 1985. It

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traces the technical development of the airplane since World War I. It describes significant aircraft that incorporated important technical innovations and served to shape the future

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course of aeronautical development, as well as aircraft that represented the state of the art of aeronautical technology in a particular time frame or that were very popular and produced in great

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numbers. Primary emphasis has been placed on aircraft originating in the United States. The discussion is related primarily to aircraft configuration evolution and associated aerodynamic



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characteristics and, to a lesser extent, to developments in aircraft construction and propulsion. The material is presented in a manner designed to appeal to the nontechnical reader who is

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interested in the evolution of the airplane, as well as to students of aeronautical engineering or others with an aeronautical background.

This is volume 1 of a 2-volume set. Marine Design XIII collects

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the contributions to the 13th International Marine Design Conference (IMDC 2018, Espoo, Finland, 10-14 June 2018). The aim of this IMDC series of conferences is to promote all aspects of marine

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design as an engineering discipline. The focus is on key design challenges and opportunities in the area of current maritime technologies and markets, with special emphasis on:

- Challenges in

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merging ship design and  
marine applications of  
experience-based industrial  
design • Digitalisation as  
technological enabler for  
stronger link between efficient  
design, operations and

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maintenance in future •

Emerging technologies and  
their impact on future designs

- Cruise ship and icebreaker  
designs including fleet  
compositions to meet new  
market demands To reflect on

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the conference focus, Marine Design XIII covers the following research topic series: •State of art ship design principles - education, design methodology, structural design,

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hydrodynamic design;

- Cutting edge ship designs and operations - ship concept design, risk and safety, arctic design, autonomous ships;
- Energy efficiency and propulsions - energy



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efficiency, hull form design,  
propulsion equipment design;  
•Wider marine designs and  
practices - navy ships,  
offshore and wind farms and  
production. Marine Design XIII  
contains 2 state-of-the-art

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reports on design methodologies and cruise ships design, and 4 keynote papers on new directions for vessel design practices and tools, digital maritime traffic, naval ship designs, and new

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tanker design for arctic.

Marine Design XIII will be of interest to academics and professionals in maritime technologies and marine design.

Proceedings of the 14th

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International Symposium,  
PRADS 2019, September  
22-26, 2019, Yokohama, Japan-  
Volume I

The Evolution of Modern  
Aircraft

Maritime Technology and

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Engineering

Practical Ship Hydrodynamics  
Hydrodynamics of the 190-ton  
Stable Semisubmerged  
Platform (SSP)  
Twenty-Fourth Symposium on  
Naval Hydrodynamics

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This proceedings contains the papers presented at The 8th International Symposium on Practical Design of Ships and Other Floating Structures held in China in September 2001 - the first PRADS of the 21st Century.

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The overall aim of PRADS symposia is to advance the design of ships and other floating structures as a professional discipline and science by exchanging knowledge and promoting

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discussion of relevant topics in the fields of naval architecture and marine and offshore engineering. In line with the aim, in welcoming the new era, this Symposium is intended to increase international co-



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operation and give a momentum for the new development of design and production technology of ships and other floating structures for efficiency, economy, safety, and environmental production. The

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main themes of this Symposium  
are Design Synthesis,  
Production, Hydrodynamics,  
Structures and Materials of  
Ships and Floating Systems.  
Proposals for over 270 papers  
from 26 countries and regions

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within the themes were received for PRADS 2001, and about 170 papers were accepted for presentation at the symposium. With the high quality of the proposed papers the Local Organising Committee had a

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difficult task to make a balanced selection and to control the total number of papers for fitting into the allocated time schedule approved by the Standing Committee of PRADS. Volume I covers design synthesis,

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production and part of hydrodynamics. Volume II contains the rest of hydrodynamics, and structures and materials.

This book deals with flows over propellers operating behind

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ships, and the hydrodynamic forces and movements that the propeller generates on the shaft and on the ship hull. The first part of the book is devoted to fundamentals of the flow about hydrofoil sections and wings,

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and to propellers in uniform flow, with guidance for design and pragmatic analysis of performance. The second part covers the development of unsteady forces arising from operation in nonuniform hull

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wakes. A final chapter discusses the optimization of efficiency of compound propulsors.

Researchers in ocean technology and naval architecture will find this book appealing.

Fundamentals of Ship



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Hydrodynamics: Fluid  
Mechanics, Ship Resistance and  
Propulsion Lothar Birk,  
University of New Orleans, USA  
Bridging the information gap  
between fluid mechanics and  
ship hydrodynamics

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## Fundamentals of Ship

Hydrodynamics is designed as a textbook for undergraduate education in ship resistance and propulsion. The book provides connections between basic training in calculus and fluid

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mechanics and the application of hydrodynamics in daily ship design practice. Based on a foundation in fluid mechanics, the origin, use, and limitations of experimental and computational procedures for resistance and

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propulsion estimates are explained. The book is subdivided into sixty chapters, providing background material for individual lectures. The unabridged treatment of equations and the extensive use

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of figures and examples enable students to study details at their own pace. Key features: • Covers the range from basic fluid mechanics to applied ship hydrodynamics. • Subdivided into 60 succinct chapters. • In-

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depth coverage of material  
enables self-study. • Around  
250 figures and tables.

Fundamentals of Ship  
Hydrodynamics is essential  
reading for students and staff of  
naval architecture, ocean

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engineering, and applied physics. The book is also useful for practicing naval architects and engineers who wish to brush up on the basics, prepare for a licensing exam, or expand their knowledge.

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Proceedings of NAV 2018: 19th  
International Conference on Ship  
& Maritime Research  
Performance by Design  
Multicriterion Evolutionary  
Optimization of Ship Hull Forms  
for Propulsion and Seakeeping



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Research on Ship Design and  
Optimization Based on  
Simulation-Based Design (SBD)  
Technique  
Marine Design XIII, Volume 1  
Maritime Technology and  
Engineering includes the papers

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presented at the 2nd  
International Conference on  
Maritime Technology and  
Engineering (MARTECH 2014,  
Lisbon, Portugal, 15-17 October  
2014). The contributions reflect  
the internationalization of the

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maritime sector, and cover a wide range of topics: Ports; Maritime transportation; Inland navigat

"Vive la Revolution!" was the theme of the Twenty-Third Symposium on Naval

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Hydrodynamics held in Val de Reuil, France, from September 17-22, 2000 as more than 140 experts in ship design, construction, and operation came together to exchange naval research developments.

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The forum encouraged both formal and informal discussion of presented papers, and the occasion provides an opportunity for direct communication between international peers. This book includes sixty-three papers

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presented at the symposium which was organized jointly by the Office of Naval Research, the National Research Council (Naval Studies Board), and the Bassin d'Essais des Carènes. This book includes the ten

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topical areas discussed at the symposium: wave-induced motions and loads, hydrodynamics in ship design, propulsor hydrodynamics and hydroacoustics, CFD validation, viscous ship hydrodynamics,

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cavitation and bubbly flow, wave hydrodynamics, wake dynamics, shallow water hydrodynamics, and fluid dynamics in the naval context.

Marine Design XIII collects the contributions to the 13th



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International Marine Design  
Conference (IMDC 2018, Espoo,  
Finland, 10-14 June 2018). The  
aim of this IMDC series of  
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aspects of marine design as an  
engineering discipline. The focus

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is on key design challenges and opportunities in the area of current maritime technologies and markets, with special emphasis on: • Challenges in merging ship design and marine applications of experience-based

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industrial design • Digitalisation  
as technological enabler for  
stronger link between efficient  
design, operations and  
maintenance in future •  
Emerging technologies and their  
impact on future designs •

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Cruise ship and icebreaker designs including fleet compositions to meet new market demands To reflect on the conference focus, Marine Design XIII covers the following research topic series: •State of

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art ship design principles -  
education, design methodology,  
structural design, hydrodynamic  
design; •Cutting edge ship  
designs and operations - ship  
concept design, risk and safety,  
arctic design, autonomous ships;

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- Energy efficiency and propulsions - energy efficiency, hull form design, propulsion equipment design; •Wider marine designs and practices - navy ships, offshore and wind farms and production. Marine

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Design XIII contains 2 state-of-the-art reports on design methodologies and cruise ships design, and 4 keynote papers on new directions for vessel design practices and tools, digital maritime traffic, naval ship

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designs, and new tanker design for arctic. Marine Design XIII will be of interest to academics and professionals in maritime technologies and marine design.