

# Hydrodynamics of High-Speed Marine Vehicles



ODD M. FALTINSEN

# Hydrodynamics Of High Speed Marine Vehicles

**Austin A. Kana**



## Hydrodynamics Of High Speed Marine Vehicles:

**Hydrodynamics of High-Speed Marine Vehicles** Odd M. Faltinsen, 2005 This 2006 book discusses the three main categories of high speed marine vehicles vessels supported by submerged hulls air cushions or foils **Hydrodynamics of High-speed Marine Vehicles** Odd Magnus Faltinsen, 2005 Discusses the three main categories of high speed marine vehicles vessels supported by submerged hulls air cushions or foils **Hydrodynamics of High-Speed Marine Vehicles** Odd M. Faltinsen, 2006-01-09 Hydrodynamics of High Speed Marine Vehicles first published in 2006 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 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 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 Hydrodynamics of High-Performance Marine Vessels Lawrence Doctors, Prof Lawrence J Doctors, 2018-01-26 This is a comprehensive two volume set of books devoted to the hydrodynamics of high performance marine vessels These vessels may also be generally referred to as high speed or advanced marine craft Types of craft addressed include monohulls catamarans trimarans and other multihull vessels air cushion vehicles surface effect ships and planing craft The hydrodynamic aspects dealt with are the steady state resistance wave generation sinkage and trim unsteady effects and motions in waves Separate chapters are devoted to viscous resistance transom sterns and the behavior of skirts for air cushion vehicles and seals for surface effect ships Effects of the finite depth of the water and the possible lateral restriction on the width of the waterway feature prominently in the books In each case the presentation includes a full analytical development of the theory accompanied by a comparison of the theoretical predictions with extensive experimental data In the two volumes there is a total of 939 full color Letter size pages The text is accompanied by 473 photographs of ships and ship models 1202 graphs 1294 equations and 1435 references The work represents the author's research consulting and professional experience in both universities and research centers spanning a period of over fifty years The books are targeted at university level students and specialized industry engineers in the field of naval architecture and associated areas High-Speed Marine Craft Peter J. Mantle, 2015-12-11 This book details the effort to build a large ship capable of traveling at 100 knots from historical and technical perspectives *High-Speed Monohull and Hydrofoil Craft* Zu-Shun Dong, Liang Yun, Raju Datla, Alan Bliault, 2024-12-24 High Speed Monohull and Hydrofoil Craft Performance Technology and Applications provides comprehensive coverage of the basic hydrodynamics of high speed monohulls and hydrofoil craft useful to students and engineers alike The first half of the book introduces different hull shapes for semi planing and planing craft with examples

from their development through the last century. Succeeding chapters then describe the hydrodynamic theory behind their performance in calm water and a seaway. They also document the extensive series of model test programs naval architects use to create prediction models for resistance and powering. Electronic versions of a number of these are included for readers' use. A final chapter on monohulls looks at hull geometric form that has been developed to provide the best possible combination of resistance in waves and motion response through a combination of a deep and sharp forefoot and a hard chine cross section towards the stern for patrol vessels and offshore logistics craft. The book's second half introduces the various geometries and planform configurations of hydrofoils under a fast craft hull. It reviews the development of these craft for inland waterways such as major river systems and the rougher environment of seaways such as the Mediterranean and Atlantic oceans. It is followed by hydrofoil theory in an ideal fluid close to a free surface. Then the theory for a real fluid includes the vorticity and effect of planform dihedral and surface interaction. Hydrofoil craft design and analysis are covered next. Finally, there is a chapter on special configurations such as craft having foils just at the bow and hydrofoil craft based on catamaran hulls.

Air Lubricated and Air Cavity Ships Gennadiy Alexeevitch Pavlov, Liang Yun, Alan Bliault, Shu-Long He, 2020-03-28. Air Lubrication and Air Cavity Technology is a major development that has emerged in recent years as a means to reduce resistance and powering for many types of ships and an efficient design for high speed marine vessels. This book introduces the mechanisms for boundary layer drag reduction and concepts studied in early research work. Air bubble and sheet lubrication for displacement vessels is outlined and the key projects introduced. Generation of low volume flow air cavities under the hull of displacement, semi-displacement and planing vessels are introduced together with theoretical and empirical analysis and design methods. Resistance reduction, power reduction and fuel efficiency are covered for both displacement and high speed vessels. Air layer and air cavity effects on vessel static and dynamic stability are covered, linked to regulatory requirements such as IMO Seaway motions and reduced impact load of high speed craft in waves are discussed, including model test results. Integration of propulsion systems for optimum powering is summarized. A design proposal for a wave piercing air cavity craft is included in an appendix. A comprehensive listing of document resources and internet locations is provided for further research.

Hydrodynamics VI: Theory and Applications Liang Cheng, Kervin Yeow, 2004-10-15. The International Conference on Hydrodynamics is an increasingly important event at which academics, researchers and practitioners can exchange new ideas and their research findings. This volume contains papers from the 2004 conference covering a wide range of subjects within hydrodynamics, including traditional engineering, architectural and mechanical issues as well as significant new technologies and methodologies such as bio-fluid mechanics and computational fluid mechanics.

Control of Marine Vehicles Karl Dietrich von Ellenrieder, 2021-06-21. This textbook offers a comprehensive introduction to the control of marine vehicles from fundamental to advanced concepts, including robust control techniques for handling model uncertainty, environmental disturbances and actuator limitations. Starting with an

introductory chapter that extensively reviews automatic control and dynamic modeling techniques for ocean vehicles the first part of the book presents in depth information on the analysis and control of linear time invariant systems The concepts discussed are developed progressively providing a basis for understanding more complex techniques and stimulating readers intuition In addition selected examples illustrating the main concepts the corresponding MATLAB code and problems are included in each chapter In turn the second part of the book offers comprehensive coverage on the stability and control of nonlinear systems Following the same intuitive approach it guides readers from the fundamentals to more advanced techniques which culminate in integrator backstepping adaptive and sliding mode control Leveraging the author s considerable teaching and research experience the book offers a good balance of theory and stimulating questions Not only does it provide a valuable resource for undergraduate and graduate students it will also benefit practitioners who want to review the foundational concepts underpinning some of the latest advanced marine vehicle control techniques for use in their own applications

**Handbook of Marine Craft Hydrodynamics and Motion Control** Thor I. Fossen, 2011-05-23 The technology of hydrodynamic modeling and marine craft motion control systems has progressed greatly in recent years This timely survey includes the latest tools for analysis and design of advanced guidance navigation and control systems and presents new material on underwater vehicles and surface vessels Each section presents numerous case studies and applications providing a practical understanding of how model based motion control systems are designed Key features include a three part structure covering Modeling of Marine Craft Guidance Navigation and Control Systems and Appendices providing all the supporting theory in a single resource kinematics kinetics hydrostatics seakeeping and maneuvering theory and simulation models for marine craft and environmental forces guidance systems sensor fusion and integrated navigation systems inertial measurement units Kalman filtering and nonlinear observer design for marine craft state of the art methods for feedback control more advanced methods using nonlinear theory enabling the user to compare linear design techniques before a final implementation is made linear and nonlinear stability theory and numerical methods companion website that hosts links to lecture notes and download information for the Marine Systems Simulator MSS which is an open source Matlab Simulink toolbox for marine systems The MSS toolbox includes hydrodynamic models and motion control systems for ships underwater vehicles and floating structures With an appropriate balance between mathematical theory and practical applications academic and industrial researchers working in marine and control engineering aspects of manned and unmanned maritime vehicles will benefit from this comprehensive handbook It is also suitable for final year undergraduates and postgraduates lecturers development officers and practitioners in the areas of rigid body modeling hydrodynamics simulation of marine craft control and estimation theory decision support systems and sensor fusion [www.wiley.com/go/fossen\\_marine](http://www.wiley.com/go/fossen_marine)

**Maritime Technology and Engineering 5 Volume 2** Carlos Guedes Soares, 2021-07-08 This set of two volumes comprises the collection of the papers presented at the 5th International Conference on Maritime Technology and

Engineering MARTECH 2020 that was held in Lisbon Portugal from 16 to 19 November 2020 The Conference has evolved from the series of biennial national conferences in Portugal which have become an international event and which reflect the internationalization of the maritime sector and its activities MARTECH 2020 is the fifth of this new series of biennial conferences The set comprises 180 contributions that were reviewed by an International Scientific Committee Volume 2 is dedicated to ship performance and hydrodynamics including CFD maneuvering seakeeping moorings and resistance In addition it includes sections on ship machinery renewable energy fishing and aquaculture coastal structures and waves and currents

**Proceedings of the 15th International Marine Design Conference** Austin A. Kana, 2024-08-22 The 15th International Marine Design Conference IMDC 2024 was organized by the Department of Maritime and Transport Technology Delft University of Technology and was hosted by the Netherlands Defence Materiel Organisation at the Marine Etablissement Amsterdam MEA The aim of the IMDC is to promote all aspects of marine design as an engineering discipline The focus of IMDC 2024 is on the key design challenges and opportunities in the maritime field with special emphasis on the following themes Ship design methodology issues such as design spiral systems engineering set based design design optimisation concurrent design modular design configuration based design or fuzzy design aspects Novel marine design concepts such as hull form design transport ships service vessels naval vessels yachts and cruise ships or specialized and complex vessels Offshore design methodology such as applications to offshore wind turbines semi submersibles floating fish farms or floating cities Influence of energy transition on maritime design including both zero emission and high power and energy systems Influence of unmanned and autonomous transition on maritime design Influence of digital transition on maritime design such as digital shadows and twins model based systems engineering AI ML and big data Influence of regulations on maritime design Maritime design education

*Ship Resistance and Propulsion* Anthony F. Molland, Stephen R. Turnock, Dominic A. Hudson, 2017-08-17 This updated edition provides a modern scientific approach to evaluating ship resistance and propulsion for a range of ship types

*Sustainable Development and Innovations in Marine Technologies* Selma Ergin, C. Guedes Soares, 2022-09-13 Sustainable Development and Innovations in Marine Technologies includes the papers presented at the 19th International Congress of the International Association of the Mediterranean IMAM 2022 Istanbul Turkey 26 29 September 2022 one of the major conferences in maritime industry The Congress has a history of more than forty years since the first Congress was held in Istanbul in 1978 IMAM 2022 is the fourth congress hosted by Istanbul in its history The IMAM congresses concentrate their activities in the thematic areas of Ship Building and Repair Maritime Transportation and Logistics Hydrodynamics Marine Structures Machinery and Control Design and Materials Marine Environment Safety of Marine Systems Decarbonisation and Digitalization Off shore and Coastal Development Noise and Vibration Defense and Security Off shore Renewable Energy Sustainable Development and Innovations in Marine Technologies is essential reading for academics engineers and all professionals involved in sustainable and innovative marine

technologies      **Practical Design of Ships and Other Floating Structures** Tetsuo Okada,Katsuyuki Suzuki,Yasumi Kawamura,2020-10-05 This book gathers the peer reviewed proceedings of the 14th International Symposium PRADS 2019 held in Yokohama Japan in September 2019 It brings together naval architects engineers academic researchers and professionals who are involved in ships and other 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 hydrodynamics and structures and materials Reflecting the latest advances the book will be of interest to researchers and practitioners alike

**Marine Propellers and Propulsion** John Carlton,2018-11-30 Marine Propellers and Propulsion Fourth Edition offers comprehensive cutting edge coverage to equip marine engineers naval architects or anyone involved in propulsion and hydrodynamics with essential job knowledge Propulsion technology is a complex multidisciplinary topic with design construction operational and research implications Drawing on experience from a long and varied career in consulting research design and technical investigation John Carlton examines hydrodynamic theory materials and mechanical considerations and design operation and performance Connecting essential theory to practical problems in design analysis and operational efficiency the book is an invaluable resource packed with hard won insights detailed specifications and data Features comprehensive coverage of marine propellers fully updated and revised with new chapters on propulsion in ice and high speed propellers Includes enhanced content on full scale trials propeller materials propeller blade vibration operational problems and much more Synthesizes otherwise disparate material on the theory and practice of propulsion technology from the past 40 years development including the latest developments in improving efficiency Written by a leading expert on propeller technology essential for students marine engineers and naval architects involved in propulsion and hydrodynamics

Mechanics And Mechanical Engineering - Proceedings Of The 2015 International Conference (Mme2015) Maosen Cao,2016-07-14 This proceedings consists of 162 selected papers presented at the 2nd Annual International Conference on Mechanics and Mechanical Engineering MME2015 which was successfully held in Chengdu China between December 25 27 2015 MME2015 is one of the key international conferences in the fields of mechanics mechanical engineering It offers a great opportunity to bring together researchers and scholars around the globe to deliver the latest innovative research and the most recent developments in the field of Mechanics and Mechanical Engineering MME2015 received over 400 submissions from about 600 laboratories colleges and famous institutes All the submissions have undergone double blind reviewed to assure the quality reliability and validity of the results presented These papers are arranged into 6 main chapters according to their research fields These are 1 Applied Mechanics 2 Mechanical Engineering and Manufacturing Technology 3 Material Science and Material Engineering 4 Automation and Control Engineering 5 Electrical Engineering 6 System Modelling and Simulation This proceedings will be invaluable to academics and professionals interested in Mechanics and Mechanical Engineering      *Sustainable Development and Innovations in Marine Technologies* Petar Georgiev,Carlos Guedes

Soares,2019-08-22 Sustainable Development and Innovations in Marine Technologies includes the papers presented at the 18th International Congress of the Maritime Association of the Mediterranean IMAM 2019 Varna Bulgaria 9 11 September 2019 Sustainable Development and Innovations in Marine Technologies includes a wide range of topics Aquaculture Construction Defence Design Dynamic response of structures Degradation Defects in structures Electrical equipment of ships Human factors Hydrodynamics Legal Social aspects Logistics Machinery Marine environmental protection Materials Navigation Noise Non linear motions manoeuvrability Off shore and coastal development Off shore renewable energy Port operations Prime movers Propulsion Safety at sea Safety of Marine Systems Sea waves Seakeeping Shaft Ship resistance Shipyards Small Stability Static response of structures Structures and Wind loads The IMAM series of Conferences started in 1978 when the first Congress was organised in Istanbul Turkey IMAM 2019 is the eighteenth edition and in its nearly forty years of history this biannual event has been organised throughout Europe Sustainable Development and Innovations in Marine Technologies is essential reading for academics engineers and all professionals involved in the area of sustainable and innovative marine technologies      **Progress in the Analysis and Design of Marine Structures** Carlos Guedes

Soares,Y. Garbatov,2017-04-28 Progress in the Analysis and Design of Marine Structures collects the contributions presented at MARSTRUCT 2017 the 6th International Conference on Marine Structures Lisbon Portugal 8 10 May 2017 The MARSTRUCT series of Conferences started in Glasgow UK in 2007 the second event of the series having taken place in Lisbon Portugal in March 2009 the third in Hamburg Germany in March 2011 the fourth in Espoo Finland in March 2013 and the fifth in Southampton UK in March 2015 This Conference series deals with Ship and Offshore Structures addressing topics in the areas of Methods and Tools for Loads and Load Effects Methods and Tools for Strength Assessment Experimental Analysis of Structures Materials and Fabrication of Structures Methods and Tools for Structural Design and Optimisation and Structural Reliability Safety and Environmental Protection Progress in the Analysis and Design of Marine Structures is essential reading for academics engineers and all professionals involved in the design of marine and offshore structures

**Towards Green Marine Technology and Transport** Carlos Guedes Soares,Roko Dejhalla,Dusko Pavletic,2015-09-04 Towards Green Marine Technology and Transport covers recent developments in marine technology and transport The book brings together a selection of papers reflecting fundamental areas of recent research and development in the fields of ship hydrodynamics marine structures ship design shipyard technology ship machinery maritime transportation



## **Hydrodynamics Of High Speed Marine Vehicles** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such is the essence of the book **Hydrodynamics Of High Speed Marine Vehicles**, a literary masterpiece that delves deep to the significance of words and their affect our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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