



THEORY AND DESIGN OF AIR CUSHION CRAFT



L. YUN & A. BLIAULT

Theory Design Of Air Cushion Craft Theory Design Of Air Cushion Craft

Liang Yun, Alan Bliault



Theory Design Of Air Cushion Craft Theory Design Of Air Cushion Craft:

Theory and Design of Air Cushion Craft Liang Yun, Alan Bliault, 2000-05-26 This definitive text describes the theory and design both of Air Cushion Vehicles ACV and Surface Effect Ships SES It begins by introducing hovercraft types and their development and application throughout the world in the last three decades before going on to discuss the theoretical aspects of ACV and SES craft covering their hovering performance dynamic trim over calm water resistance stability manoeuvrability skirt configuration and analysis of forces acting on the skirts ACV and SES seakeeping and the methodology of scaling aerodynamic and hydrodynamic forces acting on the ACV SES from model test data The latter chapters describe a design methodology including design criteria and standard methods for estimating craft performance lift system design skirt design hull structure propulsion systems and power unit selection Much technical information data and references to further work on hovercraft and SES design is provided The book will be a useful reference to engineers technicians teachers students both undergraduate and postgraduate operators etc who are involved in ACV SES research design construction and operation Guides the reader on how to perform machinery and systems selection within ACV and SES overall design For teachers students both at under and post graduate level engineers and technicians involved in ACV SES

Air Cushion Craft Development Peter J. Mantle, 1980 *High Performance Marine Vessels* Liang Yun, Alan Bliault, 2014-07-08 High Performance Marine Vessels HPMVs range from the Fast Ferries to the latest high speed Navy Craft including competition power boats and hydroplanes hydrofoils hovercraft catamarans and other multi hull craft High Performance Marine Vessels covers the main concepts of HPMVs and discusses historical background design features services that have been successful and not so successful and some sample data of the range of HPMVs to date Included is a comparison of all HPMVs craft and the differences between them and descriptions of performance hydrodynamics and aerodynamics Readers will find a comprehensive overview of the design development and building of HPMVs

High Speed Catamarans and Multihulls Liang Yun, Alan Bliault, Huan Zong Rong, 2018-10-29 High speed catamaran and multihull high speed marine vessel have 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 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 speed for insertion or retrieval with a low energy capability At present there is 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 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 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 catamarans tunnel planing catamarans and other multihull vessels DTNSRDC. David W. Taylor Naval Ship Research and Development Center,1980 *Ship Resistance and Propulsion* Anthony F. Molland,Stephen R. Turnock,Dominic A. Hudson,2011 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

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 *Vehicle Dynamics* Rao V. Dukkipati,2000 Growing worldwide populations increasingly require faster safer and more efficient transportation systems These needs have led to a renewed interest in high speed guided ground transportation technology inspired considerable research and instigated the development of better analytical and experimental tools A very significant body of knowledge currently exists but has primarily remained scattered throughout the literature Vehicle Dynamics consolidates information from a wide spectrum of sources in the area of guided ground transportation Each chapter provides a concise thorough statement of the fundamental theory followed by illustrative worked examples and exercises The author also includes a variety of unsolved problems designed to amplify and extend the theory and provide problem solving experience The subject of guided ground transportation is vast but this book brings together the core topics providing in depth treatments of topics ranging from system classification analysis and response to lading dynamics and rail air cushion and maglev systems In doing so Vehicle Dynamics offers a singular opportunity for readers to build the solid background needed for solving practical vehicle dynamics problems or pursuing more advanced or specialized studies **Basic Ship Theory, Combined Volume** E. C. Tupper,KJ Rawson,2001-10-05 Rawson and Tupper s Basic Ship Theory first published in 1968 is widely known as the standard introductory text for naval architecture students as well as being a useful reference for the more experienced designer The fifth edition continues to provide a balance between theory and practice Volume 1 discusses ship geometry and measurement in its more basic concepts also covering safety issues structural strength flotation trim and stability Volume 2

expands on the material in Volume 1 covering the dynamics behaviour of marine vehicles hydrodynamics manoeuvrability and seakeeping It concludes with some case studies of particular ship types and a discussion of maritime design Both volumes feature the importance of considering the environment in design Basic Ship Theory is an essential tool for undergraduates and national vocational students of naval architecture maritime studies ocean and offshore engineering and this combined hardback version will be of great assistance to practising marine engineers and naval architects Brand new edition of the leading undergraduate textbook in Naval Architecture Provides a basis for more advanced theory Over 500 examples with answers

Theory of Ground Vehicles J. Y. Wong, 2022-08-23 THEORY OF GROUND VEHICLES A leading and authoritative text for advancing ground vehicle mobility Theory of Ground Vehicles Fifth Edition presents updated and expanded coverage of the critical factors affecting the performance handling and ride essential to the development and design of road and off road vehicles Replacing internal combustion engines with zero emission powerplants in ground vehicles to eliminate greenhouse gas emissions for curbing climate change has received worldwide attention by both the vehicle industry and governmental agencies To enhance safety traffic flow and operating efficiency of road transport automated driving systems have been under active development With growing interest in the exploration of the Moon Mars and beyond research in terramechanics for guiding the development of extraterrestrial rovers has been intensified In this new edition these and other topics of interest in the field of ground vehicle technology are explored and technical data are updated New features of this edition include Expanded coverage of the fundamentals of electric drives hybrid electric drives and fuel cell technology Introduction to the classification and operating principles of the automated driving system and cooperative driving automation Applications of terramechanics to guiding the development of extraterrestrial rovers Elaboration on the approach to achieving the optimal operating efficiency of all wheel drive off road vehicles Introduction to updated ISO Standards for evaluating vehicle ride An updated and comprehensive text and reference for both the educational and professional communities Theory of Ground Vehicles Fifth Edition will prove invaluable to aspiring and practicing engineers seeking to solve real world road and off road vehicle mobility problems

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