



3. SYSTEM DESCRIPTION

This section provides detailed information about the system to ensure safe and efficient operations. Refer to Chapter 12 for the project specific assembly drawings from Rolls-Royce Marine.

3.1 System Overview

The Azipull Thruster is a low drag, high efficient pulling thruster. It combines the advantage of the pulling propeller with the flexibility of using any type of drive to suit the customer's specific requirement.

The Azipull Thruster is designed for continuous service speed up to 24 knots, whilst maintaining excellent maneuverability as no rudder is required.

Both controllable pitch (CP) and fixed pitch (FP) propellers can be specified. The FP type can optionally be mono block or bolted blades on the CP hub. The latter is fixed adjustable where pitch changes can be made with a tool fitted in the front of the hub.

The Azipull Thruster propulsion system consists of three main parts:

- Mechanical parts for power transformation of both steering and propeller rotation.
- Hydraulic parts for lubrication and hydraulic control of the equipment.
- Electric parts for control of drive motors, steering motors and hydraulic pumps.

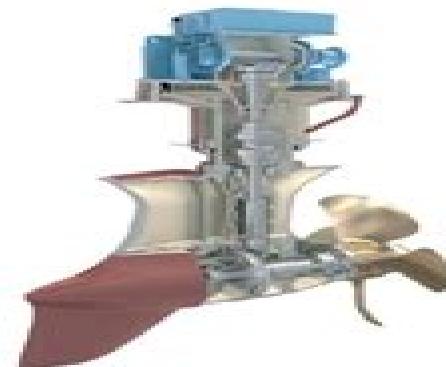
3.2 Design

The design of the Azipull is based on long experience with azimuth thrusters used as main propulsion.

The pulling propeller design is based on a steady (homogenous and undisturbed) inflow to the propeller disc combined with a long and slender body (and fin) which enables to:

- Straighten the slipstream to give a low drag.
- Improve course stability leading to higher system efficiency.
- Reduce vibration and noise levels.

The streamlined thruster body and fin recover the flow energy in the slipstream, which contributes to a high propulsive efficiency as well as improved course stability of the vessel (high rudder efficiency).



Rolls Royce Marine Safety Manual

Adam Weintrit, Tomasz Neumann



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Maritime Autonomous Surface Ships (MASS) - Regulation, Technology, and Policy Chong-Ju Chae, Raphael Baumler, 2024-12-01 This book covers MASS regulation technology and policy MASS development began with the realization of the 4th industrial revolution technologies such as big data AI IoT and communication which were also linked to technological development in the maritime field However it is still unclear how MASS will operate This book is divided into three parts MASS regulation technology and policy and explains each part in detail Part I MASS regulation and safety deals with IMO works for MASS including IMO MASS RSE results which has been finished in 2021 In addition the United Nations Convention on the Law of the Sea UNCLOS one of the most important international conventions to be considered for MASS operation will be dealt with and various safety considerations will be explained in detail Through this this book explains in detail the regulatory considerations and safety considerations for MASS In particular the gaps and themes identified in IMO MASS RSE and the priority discussion needs are explained and based on this the development of a goal based non mandatory MASS code currently in progress is discussed UNCLOS is a convention like the blueprint of the IMO Conventions and it is very important to understand and meet the requirements of UNCLOS for the operation of MASS Therefore this book provides a detailed explanation of the application of UNCLOS In particular UNCLOS Article 94 would be a very important consideration Also this book covers COLREGs and technologies for MASS operations

Managing Maritime Safety Helle Olteidal, Margareta Lützhöft, 2018-01-23 Shipping is a pillar of global trade with 90 per cent of the world's trade in goods and raw materials carried by ship Despite the economic benefits this delivers maritime operations can be dangerous and when accidents occur the consequences are serious Consequential outcomes from hazards at sea include serious injury death loss of cargo and destruction of the marine environment Managing Maritime Safety will give you a thorough understanding of contemporary maritime safety and its management It provides varying viewpoints on traditional safety topics in conjunction with critical discussions of the international safety management code and its application The book also offers new perspectives on maritime safety such as ship and equipment design for safety and the relevance of safety management systems in particular the application of the International Safety Management code to remote controlled or autonomous ships The authors all work in the maritime industry as practitioners in education research government and classification The combination of wide ranging and extensive experience provides an unprecedented span of views with a strong connection to the real issues in the maritime domain This book sets out to provide much needed consolidated knowledge for university level students on maritime safety management incorporating theoretical historical research operational and design perspectives

Handbook of Research on the Future of the Maritime Industry Senbursa, Nihan, 2022-03-25 During the COVID 19 pandemic employees of maritime and logistics sectors have continued their activities both on shore and on board to complete operations and supply continuity of logistics management in hard times While organizations worked to provide the best

services to customers the shipping industry suffered by the work life changes brought by the pandemic Changes have been felt in talent management in new shipping changing maritime ethics and affecting the maritime industry psychology employee motivation importance of seafarers and employee rights and responsibilities The Handbook of Research on the Future of the Maritime Industry presents leaders and managers from maritime and logistics industries sharing their experiences new paradigms practices and strategies This book provides practical ideas and strategies to cope with the consequences of the new normal in the wake of the global pandemic crisis Covering topics such as employee rights occupational safety and psychological effects this book is an essential resource for senior executives leaders and managers HR professionals lecturers business clusters entrepreneurs researchers scholars academicians and faculty of higher education

Assessment And Policy Research On The Transportation Science And Technology Development In China Guanghui Zhao, 2023-05-19 This comprehensive book evaluates the development status application scenarios and future trends of China's transportation technology with a focus on the progress and breakthroughs made in the development of China's transportation technology the development trend of new technologies and the impact on transportation The unique reference text benefits practitioners leaders and managers in the transportation industry transportation researchers transportation engineers and transportation technicians

Marine Navigation and Safety of Sea Transportation Adam Weintrit, Tomasz Neumann, 2013-06-04 The TransNav 2013 Symposium held at the Gdynia Maritime University Poland in June 2013 has brought together a wide range of participants from all over the world The program has offered a variety of contributions allowing to look at many aspects of the navigational safety from various different points of view Topics presented

Marine Design XIII, Volume 2 Pentti Kujala, Liangliang Lu, 2018-06-04 This is volume 2 of a 2 volume set Marine Design XIII collects 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 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 merging ship design and marine applications of experience based 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 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 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 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 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 Marine Design XIII will be of interest to academics and professionals in maritime technologies and marine design Manuals Combined: U.S. Coast Guard Marine Safety Manual Volumes I, II and III , Over 2 300 total pages Titles included Marine Safety Manual Volume I Administration And Management Marine Safety Manual Volume II Materiel Inspection Marine Safety Manual Volume III Marine Industry Personnel **Port Economics, Management and Policy** Theo Notteboom,Athanasios Pallis,Jean-Paul Rodrigue,2022-01-31 Port Economics Management and Policy provides a comprehensive analysis of the contemporary port industry showing how ports are organized to serve the global economy and support regional and local development Structured in eight sections plus an introduction and epilog this textbook examines a wide range of seaport topics covering maritime shipping and international trade port terminals port governance port competition port policy and much more Key features of the book include Multidisciplinary perspective drawing on economics geography management science and engineering Multisector analysis including containers bulk break bulk and the cruise industry Focus on the latest industry trends such as supply chain management automation digitalization and sustainability Benefitting from the authors extensive involvement in shaping the port sector across five continents this text provides students and scholars with a valuable resource on ports and maritime transport systems Practitioners and policymakers can also use this as an essential guide towards better port management and governance Design and Operation of Double Hull Tankers Royal Institution of Naval Architects,2004 *High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations* National Academies of Sciences, Engineering, and Medicine,National Academy of Engineering,Division on Engineering and Physical Sciences,National Materials and Manufacturing Board,Committee on Connector Reliability for Offshore Oil and Natural Gas Operations,2018-07-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States Advances in locating deposits and improvements in drilling and recovery technology have made it technically and economically feasible to extract these resources under harsh conditions But extracting these offshore petroleum resources involves the possibility however remote of oil spills with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and thus cleanup can be problematic Bolted connections are an integral feature of deep water well operations High Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment as well as best practices from other industrial sectors It focuses on critical bolting bolts studs nuts and fasteners used on critical connections **Safety and Reliability - Safe Societies in a Changing World** Stein Haugen,Anne Barros,Coen van Gulijk,Trond Kongsvik,Jan Erik Vinnem,2018-06-15 Safety and Reliability Safe Societies in a Changing World collects the papers presented at the 28th European Safety and Reliability Conference ESREL 2018 in Trondheim Norway June 17 21 2018 The contributions cover a

wide range of methodologies and application areas for safety and reliability that contribute to safe societies in a changing world. These methodologies and applications include foundations of risk and reliability assessment and management, mathematical methods in reliability and safety, risk assessment, risk management, system reliability, uncertainty analysis, digitalization and big data, prognostics and system health management, occupational safety, accident and incident modeling, maintenance modeling and applications, simulation for safety and reliability analysis, dynamic risk and barrier management, organizational factors and safety culture, human factors and human reliability, resilience engineering, structural reliability, natural hazards, security, economic analysis in risk management. *Safety and Reliability: Safe Societies in a Changing World* will be invaluable to academics and professionals working in a wide range of industrial and governmental sectors: offshore oil and gas, nuclear engineering, aeronautics and aerospace, marine transport and engineering, railways, road transport, automotive engineering, civil engineering, critical infrastructures, electrical and electronic engineering, energy production and distribution, environmental engineering, information technology and telecommunications, insurance and finance, manufacturing, marine transport, mechanical engineering, security and protection, and policy making. *Maritime Law in Motion* Proshanto K. Mukherjee, Maximo Q. Mejia, Jr., Jingjing Xu, 2020-01-23. This book provides valuable insights into various contemporary issues in public and private maritime law, including interdisciplinary aspects. The public law topics addressed include public international law and law of the sea, while a variety of private law topics are explored, e.g., commercial maritime law, conflict of laws, and new developments in the application of advanced technologies to maritime law issues. In addition, the book highlights current and topical discussions at international maritime forums such as the International Maritime Organization on regulatory and private law matters within the domain of marine environmental law, the law respecting seafarers' affairs, and maritime pedagogics, maritime security, comparative law in the maritime field, trade law, recent case law, analysis, taxation law in the maritime context, maritime arbitration, carriage of passengers, port law, and limitation of liability. **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1972. *Shipping and Logistics Management* Y. H. Venus Lun, Kee-hung Lai, T. C. Edwin Cheng, Dong Yang, 2023-04-20. This book explains global trends and strategies in the shipping business, looking at the role of logistics service providers and at how information technology can help shipping operations. It also introduces best practices and advice that will allow professionals to improve the management of shipping and logistics activities. The book consists of sections examining shipping and trade business strategies for shipping, intermodal container transport operations, and ports. This new edition adds a new fifth section with four new chapters that discuss contemporary issues in shipping. The new chapters are related to risk management in shipping, shipping security, and safety, environmental and social sustainability, and a review of new technologies in the shipping industry and their future potential. An invaluable source of information for researchers and advanced or graduate students, *Shipping and Logistics Management* is also a useful reference for shipping practitioners and consultants. **The Role of AI in Thinking and**

Innovation: The Quiet Architect Behind Human Genius Chandrasekaran, The Role of AI in Thinking and Innovation The Quiet Architect Behind Human Genius by Chandrasekaran explores how artificial intelligence is transforming the maritime world and beyond Written in simple engaging language it shows how AI is reshaping navigation ship design crew training and decision making while raising vital questions about ethics responsibility and human machine collaboration With real world stories and practical insights it s a guide to understanding how humans and AI can think and innovate together

Safety of Sea Transportation Adam Weintrit,Tomasz Neumann,2017-07-14 Safety of Sea Transportation is the second of two Conference Proceedings of TransNav 2017 June 21 23 in Gdynia Poland Safety of Sea Transportation will focus on the following themes Sustainability intermodal and multimodal transportation Safety and hydrodynamic study of hydrotechnical structures Bunkering and fuel consumption Gases emission water pollution and environmental protection Occupational accidents Supply chain of blocks and spare parts Electrotechnical problems Ships stability and loading strength Cargo loading and port operations Maritime Education and Training MET Human factor crew manning and seafarers problems Economic analysis Mathematical models methods and algorithms Fishery Legal aspects Aviation *Meeting UK Energy and Climate Needs* Great Britain: Parliament: House of Commons: Science and Technology Committee,2006-02-09 Meeting UK energy and climate Needs The role of carbon capture and storage first report of session 2005 06 Vol 2 Oral and written Evidence

The Regulation of Automated and Autonomous Transport Kyriaki Noussia,Matthew Channon,2023-08-12 This book discusses various legal aspects of automated and autonomous transport The regulation of automated and autonomous transport encompasses legislation on automated cars ships vessels and drones Questions surrounding this novel area of the law which has attracted major worldwide interest and publicity are likely to dominate our societies and everyday life in the years ahead One major challenge addressed in this book is remedying the regulatory fragmentation that can be observed around the globe concerning legislation on automated and autonomous transportation systems Written and edited by respected experts in the field including academics and practitioners alike this book seeks to fill an important gap in the literature Given its focus and scope the book will be of considerable interest to practitioners academics and policymakers judges students and secondary audiences including engineers sociologists naval architects all those involved in the automated industry and people working in AI

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Table of Contents Rolls Royce Marine Safety Manual

1. Understanding the eBook Rolls Royce Marine Safety Manual
 - The Rise of Digital Reading Rolls Royce Marine Safety Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Rolls Royce Marine Safety Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Rolls Royce Marine Safety Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Rolls Royce Marine Safety Manual
 - Personalized Recommendations
 - Rolls Royce Marine Safety Manual User Reviews and Ratings
 - Rolls Royce Marine Safety Manual and Bestseller Lists
5. Accessing Rolls Royce Marine Safety Manual Free and Paid eBooks
 - Rolls Royce Marine Safety Manual Public Domain eBooks
 - Rolls Royce Marine Safety Manual eBook Subscription Services
 - Rolls Royce Marine Safety Manual Budget-Friendly Options
6. Navigating Rolls Royce Marine Safety Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Rolls Royce Marine Safety Manual Compatibility with Devices
 - Rolls Royce Marine Safety Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Rolls Royce Marine Safety Manual
 - Highlighting and Note-Taking Rolls Royce Marine Safety Manual
 - Interactive Elements Rolls Royce Marine Safety Manual
8. Staying Engaged with Rolls Royce Marine Safety Manual

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Rolls Royce Marine Safety Manual
- 9. Balancing eBooks and Physical Books Rolls Royce Marine Safety Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Rolls Royce Marine Safety Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Rolls Royce Marine Safety Manual
 - Setting Reading Goals Rolls Royce Marine Safety Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Rolls Royce Marine Safety Manual
 - Fact-Checking eBook Content of Rolls Royce Marine Safety Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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