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Ship Automation-Alexandr Yakimchuk 2012 "This book will introduce you to a variety of modern electrical appliances that are utilised for ships' automation, and while reading it you will progress to read electrical diagrams in the way that skilled electricians do. If you find yourself reading something you already know, read it anyway, you may gain a better foundation for what follows." -- Preface.
Ship Automation-Alexandr Yakimchuk 2012
An Introduction to Ship Automation and Control Systems-Alex Stefani 2013
Ship and Mobile Offshore Unit Automation-Henryk Peplinski 2019-08-23 Ship and Mobile Offshore Unit Automation: A Practical Guide: A Practical Guide gives engineers a much-needed reference on relevant standards and codes, along with practical case studies on how to use these standards on actual projects and plans. Packed with the critical procedures necessary for each phase of the project, the book also gives an outlook on trends of development for control and monitoring systems, including usage of artificial intelligence in software development and prospects for the use of autonomous vessels. Rounding out with a glossary and introductory chapter specific to the new marine engineer just starting, this book delivers a source of valuable information to help offshore engineers be better prepared to safely and efficiently design today’s offshore unit control systems. Helps readers understand the worldwide offshore unit regulations necessary for monitoring systems and automation installation, including ISO, IEC, IEEE, IMO, SOLAS AND MODU, ABS, DNVGL, API, NMA and NORSOK Presents real-world examples that apply standards Provides tactics on how to procure control and monitoring systems specific to the offshore industry
Human Factors for Naval Marine Vehicle Design and Operation-Jonathan M. Ross 2017-03-02 There is a driving need for naval professionals to focus on human factors issues. The number of maritime accidents is increasing and the chief cause is human error, both by the designer and the operator. Decreasing crew size, lack of experienced operators, operations in higher sea states and fatigue worsen the situation. Automation can be a partial solution, but flawed automated systems actually contribute to accidents at sea. Up to now, there has been no overarching resource available to naval marine vehicle designers and human factors professionals which bridges the gap between the human and the machine in this context. Designers understand the marine vehicle; human factors professionals understand how a particular environment affects people. Yet neither has a practical understanding of the other's field, and thus communicating requirements and solutions is difficult. This book integrates knowledge from numerous sources as well as the advice of a panel of eight recognized experts in the fields of related research, development and operation. The result is a reference that bridges the communications gap, and stands to help enhance the design and operation of all naval marine vehicles.
Automation for the Maritime Industries-Joaquín Aranda Gallego 2005
Marine and Offshore Pumping and Piping Systems-J. Crawford 2016-02-03 Marine and Offshore Pumping and Piping System covers the history, application,

installation, maintenance, and safety of different pumping and piping systems. The book covers topics such as pumping arrangements, especially in machinery spaces; water ballast, oil fuel, feed, and cooling water systems; and piping systems for oil and chemical tankers. Also covered are topics such as the arrangements in liquefied gas carriers and fuel gas and coal burning; the required arrangements and systems for specialized ships and its related regulations; the automation of control systems; piping designs, and offshore services. The text is recommended for marine engineers who would like to know more about the pumping and piping systems on ships and offshore services, as well as their arrangements.

Red Book of Marine Engineering-William Brown Paterson 1967

Technology and Science for the Ships of the Future-A. Marinò 2018-06-22 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 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 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 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 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.

Technology for the United States Navy and Marine Corps, 2000-2035 Becoming a 21st-Century Force-National Research Council 1997-12-19 The future national security environment will present the naval forces with operational challenges that can best be met through the development of military capabilities that effectively leverage rapidly advancing technologies in many areas. The panel envisions a world where the naval forces will perform missions in the future similar to those they have historically undertaken. These missions will continue to include sea control, deterrence, power projection, sea lift, and so on. The missions will be accomplished through the use of platforms (ships, submarines, aircraft, and spacecraft), weapons (guns, missiles, bombs, torpedoes, and information), manpower, materiel, tactics, and processes (acquisition, logistics,and so on.). Accordingly, the Panel on Technology attempted to identify those technologies that will be of greatest importance to the future operations of the naval forces and to project trends in their development out to the year 2035. The primary objective of the panel was to determine which are the most critical technologies for the Department of the Navy to pursue to ensure U.S. dominance in future naval operations and to determine the future trends in these technologies and their impact on Navy and Marine Corps superiority. A vision of future naval operations ensued from this effort. These technologies form the base from which products, platforms, weapons, and capabilities are built. By combining multiple technologies with their future attributes, new systems and subsystems can be envisioned. Technology for the United States Navy and Marine Corps, 2000-2035 Becoming a 21st-Century Force:Volume 2: Technology indentifies those technologies that are unique to the naval forces and whose development the Department of the Navy clearly must fund, as well as commercially dominated technologies that the panel believes the Navy and Marine Corps must learn to adapt as quickly as possible to naval applications. Since the development of many of the critical technologies is becoming global in nature, some consideration is given to foreign capabilities and trends as a way to assess potential adversaries' capabilities. Finally, the panel assessed the current state of the science and technology (S&T) establishment and processes within the Department of the Navy and makes recommendations that would improve the efficiency and effectiveness of this vital area. The panel's findings and recommendations are presented in this report.

Maritime Engineering and Technology-Carlos Guedes Soares 2012-11-26 Maritime Engineering and Technology includes the papers from the 1st International Conference on Maritime Technology and Engineering (MARTECH 2011, Lisbon, Portugal, 10-12 May 2011). MARTECH 2011 was held to commemorate 100 years of the Instituto Superior Tico (IST) in Lisbon, and the contributions in the present volume reflect the

Marine electrical practice-George Oliphant Watson 1971-03

Advances in Unmanned Marine Vehicles-G.N. Roberts 2006 Unmanned marine vehicles (UMVs) is a collective term used to describe autonomous underwater vehicles, remotely operated vehicles, semi-submersibles, and unmanned surface craft. Considerable interest has been shown in UMVs by the military, civilian

and scientific communities due to their ability to undertake designated missions whilst either operating autonomously and/or on co-operation with other types of vehicle. Increasing importance is also being placed on the design and development of such vehicles as they are capable of providing cost effective solutions to a number of littoral, coastal and offshore problems. This book draws attention to the advanced technology which is evolving to meet the challenges being posed in this exciting and growing field of study.

Introduction to Plant Automation and Controls-Raymond F. Gardner 2020-11-03 Introduction to Plant Automation and Controls addresses all aspects of modern central plant control systems, including instrumentation, control theory, plant systems, VFDs, PLCs, and supervisory systems. Design concepts and operational behavior of various plants are linked to their control philosophies in a manner that helps new or experienced engineers understand the process behind controls, installation, programming, and troubleshooting of automated systems. This groundbreaking book ties modern electronic-based automation and control systems to the special needs of plants and equipment. It applies practical plant operating experience, electronic-equipment design, and plant engineering to bring a unique approach to aspects of plant controls including security, programming languages, and digital theory. The multidimensional content, supported with 500 illustrations, ties together all aspects of plant controls into a single-source reference of otherwise difficult-to-find information. The increasing complexity of plant control systems requires engineers who can relate plant operations and behaviors to their control requirements. This book is ideal for readers with limited electrical and electronic experience, particularly those looking for a multidisciplinary approach for obtaining a practical understanding of control systems related to the best operating practices of large or small plants. It is an invaluable resource for becoming an expert in this field or as a single-source reference for plant control systems. Author Raymond F. Gardner is a professor of engineering at the U.S. Merchant Marine Academy at Kings Point, New York, and has been a practicing engineer for more than 40 years.

Ship Design and Construction-Society of Naval Architects and Marine Engineers (U.S.) 1980

Pounder's Marine Diesel Engines-Doug Woodyard 2003-12-09 Since its first appearance in 1950, Pounder's Marine Diesel Engines has served seagoing engineers, students of the Certificates of Competency examinations and the marine engineering industry throughout the world. Each new edition has noted the changes in engine design and the influence of new technology and economic needs on the marine diesel engine. This eighth edition retains the directness of approach and attention to essential detail that characterized its predecessors. There are new chapters on monitoring control systems and governor systems, gas turbines and safety aspects of engine operation. Important developments such as the latest diesel-electric LNG carriers that will soon be in operation. After experience as a seagoing engineer with the British India Steam Navigation Company, Doug Woodyard held editorial positions with the Institution of Mechanical Engineers and the Institute of Marine Engineers. He subsequently edited The Motor Ship journal for eight years before becoming a freelance editor specializing in shipping, shipbuilding and marine engineering. He is currently technical editor of Seatrade, a contributing editor to Speed at Sea, Shipping World and Shipbuilder and a technical press consultant to Rolls-Royce Commercial Marine. * Designed to reflect the recent changes to SQA/Marine and Coastguard Agency Certificate of Competency exams. Careful organisation of the new edition enables readers to access the information they require * Brand new chapters focus on monitoring control systems and governor systems, gas turbines and safety aspects of engine operation * High quality, clearly labelled illustrations and figures

Marine Propulsion Simulation-Michele Martelli 2015-01-29 The propulsion system behaviour is a key aspect for the overall dynamics of a ship. However, despite its great importance, numerical methodologies for detailed investigations on marine propulsion dynamics are not yet widely covered in scientific literature. This book presents the main steps for the development of a multi-physic simulation platform, able to represent the motions of a twin screw ship in six degrees of freedom, taking into account the whole propulsion system and automation effects. A number of mathematical sub-models had been developed and calibrated by a set of experimental tests, in model and full scale. Finally, the sea trials campaign of a ship is used to validate and tune the developed simulator. The proposed simulation methodology can be used in the ship preliminary design phase, in order to plan and test the propulsion system and automation. Further applications can include the design optimization and crew training.

Proceedings of the 25th Pan-American Conference of Naval Engineering—COPINAVAL-Adán Vega Sáenz 2018-07-04 This book presents selected contributions to the Pan-American Congress of Naval Engineering, Maritime Transport and Port Engineering (COPINAVAL), which is in its twenty-fifth edition and has

become a reference event for the global maritime and port sector, attracting more and more participants from different countries. The 2017 congress was held in Panama City, Panama, bringing together a select group of scientists, entrepreneurs, academics and professionals to discuss the latest technological advances in the maritime industry.

Control and Automation of Electrical Power Distribution Systems-James Northcote-Green 2017-12-19 Implementing the automation of electric distribution networks, from simple remote control to the application of software-based decision tools, requires many considerations, such as assessing costs, selecting the control infrastructure type and automation level, deciding on the ambition level, and justifying the solution through a business case. Control and Automation of Electric Power Distribution Systems addresses all of these issues to aid you in resolving automation problems and improving the management of your distribution network. Bringing together automation concepts as they apply to utility distribution systems, this volume presents the theoretical and practical details of a control and automation solution for the entire distribution system of substations and feeders. The fundamentals of this solution include depth of control, boundaries of control responsibility, stages of automation, automation intensity levels, and automated device preparedness. To meet specific performance goals, the authors discuss distribution planning, performance calculations, and protection to facilitate the selection of the primary device, associated secondary control, and fault indicators. The book also provides two case studies that illustrate the business case for distribution automation (DA) and methods for calculating benefits, including the assessment of crew time savings. As utilities strive for better economies, DA, along with other tools described in this volume, help to achieve improved management of the distribution network. Using Control and Automation of Electric Power Distribution Systems, you can embark on the automation solution best suited for your needs.

Marine Robot Autonomy-Mae L. Seto 2012-12-09 Autonomy for Marine Robots provides a timely and insightful overview of intelligent autonomy in marine robots. A brief history of this emerging field is provided, along with a discussion of the challenges unique to the underwater environment and their impact on the level of intelligent autonomy required. Topics covered at length examine advanced frameworks, path-planning, fault tolerance, machine learning, and cooperation as relevant to marine robots that need intelligent autonomy.

Linear Synchronous Motors-Jacek F. Gieras 2018-04-20 Considered to be the first book devoted to the subject, Linear Synchronous Motors: Transportation and Automation Systems, Second Edition evaluates the state of the art, demonstrating the technological innovations that are improving the design, construction, and performance of modern control systems. This new edition not only illustrates the development of linear synchronous motor drives, but it also discusses useful techniques for selecting a motor that will meet the specific requirements of linear electrical drives. New Features for the Second Edition: Several updated and expanded sections, as well as two new chapters on FEM Even more numerical examples, calculations, and mathematical models Broadened target audience that includes researchers, scientists, students, and more Evaluating trends and practical techniques for achieving optimal system performance, the authors showcase ready-to-implement solutions for common roadblocks in this process. The book presents fundamental equations and calculations used to determine and evaluate system operation, efficiency, and reliability, with an exploration of modern computer-aided design of linear synchronous motors, including the finite element approach. It covers topics such as linear sensors and stepping motors, magnetic levitation systems, elevators, and factory automation systems. It also features case studies on flat PM, tubular PM, air-cored, and hybrid linear synchronous motors, as well as 3D finite element method analysis of tubular linear reluctance motors, and linear oscillatory actuators. With such an exceptional presentation of practical tools and conceptual illustrations, this volume is an especially powerful resource. It will benefit readers from all walks by providing numerical examples, models, guidelines, and diagrams to help develop a clear understanding of linear synchronous motor operations, characteristics, and much more.

Fundamental Design and Automation Technologies in Offshore Robotics-Hamid Reza Karimi 2020-10-30 Fundamental Design and Automation Technologies in Offshore Robotics introduces technological design, modelling, stability analysis, control synthesis, filtering problem and real time operation of robotics vehicles in offshore environments. The book gives numerical and simulation results in each chapter to reflect the engineering practice yet demonstrate the focus of the developed analysis and synthesis approaches. The book is ideal to be used as a reference book for senior and graduate students. It is written in a way that the presentation is simple, clear, and easy to read and understand which would be appreciated by graduate students. Researchers working on marine vehicles and robotics would be able to find reference material on related topics from the book. The book could be of a significant interest to the researchers within offshore

and deep see society, including both academic and industrial parts. Provides a series of latest results in, including but not limited to, motion control, robotics, and multi-vehicle systems towards offshore environment Presents recent advances of theory, technological aspects, and applications of robotics in offshore environment Offers a comprehensive and up-to-date references, which plays an indicative role for further study of the reader

Computer-Aided Control Systems Design-Cheng Siong Chin 2017-12-19 Computer-Aided Control Systems Design: Practical Applications Using MATLAB® and Simulink® supplies a solid foundation in applied control to help you bridge the gap between control theory and its real-world applications. Working from basic principles, the book delves into control systems design through the practical examples of the ALSTOM gasifier system in power stations and underwater robotic vehicles in the marine industry. It also shows how powerful software such as MATLAB® and Simulink® can aid in control systems design. Make Control Engineering Come Alive with Computer-Aided Software Emphasizing key aspects of the design process, the book covers the dynamic modeling, control structure design, controller design, implementation, and testing of control systems. It begins with the essential ideas of applied control engineering and a hands-on introduction to MATLAB and Simulink. It then discusses the analysis, model order reduction, and controller design for a power plant and the modeling, simulation, and control of a remotely operated vehicle (ROV) for pipeline tracking. The author explains how to obtain the ROV model and verify it by using computational fluid dynamic software before designing and implementing the control system. In addition, the book details the nonlinear subsystem modeling and linearization of the ROV at vertical plane equilibrium points. Throughout, the author delineates areas for further study. Appendices provide additional information on various simulation models and their results. Learn How to Perform Simulations on Real Industry Systems A step-by-step guide to computer-aided applied control design, this book supplies the knowledge to help you deal with control problems in industry. It is a valuable reference for anyone who wants a better understanding of the theory and practice of basic control systems design, analysis, and implementation.

Maritime Technology and Engineering III-Carlos Guedes Soares 2016-12-01 Maritime Technology and Engineering 3 is a collection of papers presented at the 3rd International Conference on Maritime Technology and Engineering (MARTECH 2016, Lisbon, Portugal, 4-6 July 2016). The MARTECH Conferences series evolved from biannual national conferences in Portugal, thus reflecting the internationalization of the maritime sector. The keynote lectures and the papers, making up nearly 150 contributions, came from an international group of authors focused on different subjects in a variety of fields: Maritime Transportation, Energy Efficiency, Ships in Ports, Ship Hydrodynamics, Ship Structures, Ship Design, Ship Machinery, Shipyard Technology, afety & Reliability, Fisheries, Oil & Gas, Marine Environment, Renewable Energy and Coastal Structures. Maritime Technology and Engineering 3 will appeal to academics, engineers and professionals interested or involved in these fields.

Stemming the Tide-National Research Council 1996-11-22 The European zebra mussel in the Great Lakes, a toxic Japanese dinoflagellate transferred to Australia--such biologically and economically harmful stowaways have made it imperative to achieve better management of ballast water in ocean-going vessels. Stemming the Tide examines the introduction of nonindigenous species through ballast water discharge. Ballast is any solid or liquid that is taken aboard ship to achieve more controlled and safer operation. This expert volume Assesses current national and international approaches to the problem and makes recommendations for U.S. government agencies, the U.S. maritime industry, and the member states of the International Maritime Organization. Appraises technologies for controlling the transfer of organisms--biocides, filtration, heat treatment, and others --with a view toward developing the most promising methods for shipboard demonstration. Evaluates methods for monitoring the effectiveness of ballast water management in removing unwanted organisms. The book addresses the constraints inherent in ballast water management, notably shipboard ballast treatment and monitoring. Also, the committee outlines efforts to set an acceptable level of risk for species introduction using the techniques of risk analysis. Stemming the Tide will be important to all stakeholders in the issue of unwanted species introduction through ballast discharge: policymakers, port authorities, shippers, ship operators, suppliers to the maritime industry, marine biologists, marine engineers, and environmentalists.

Condition Monitoring and Faults Diagnosis of Induction Motors-Nordin Saad 2018-07-11 The book covers various issues related to machinery condition monitoring, signal processing and conditioning, instrumentation and measurements, faults for induction motors failures, new trends in condition monitoring, and the fault identification process using motor currents electrical signature analysis. It aims to present a new non-invasive and non-intrusive condition monitoring system, which has the capability to detect various defects in induction motor at incipient stages within an arbitrary noise conditions. The

performance of the developed system has been analyzed theoretically and experimentally under various loading conditions of the motor. Covers current and new approaches applied to fault diagnosis and condition monitoring. Integrates concepts and practical implementation of electrical signature analysis. Utilizes LabVIEW tool for condition monitoring problems. Incorporates real-world case studies. Paves way a technology potentially for prescriptive maintenance via IIoT.

The Human Element-Dik Gregory 2010-04-29 Based on a wide range of consultations with maritime organisations, the guide was produced by organisational psychologists gs partnership ltd, for consortium partners UK Maritime and Coastguard Agency, BP Shipping, Teekay Marine Services, and the Standard P&I Club. Aimed at everyone in the shipping industry, the Guide explains the fundamental aspects of human behaviour, which together constitute what the commercial maritime sector calls 'the human element'. It makes clear that the human element is neither peripheral nor optional in the pursuit of a profitable and safe shipping industry. The Guide clearly shows that managing the human element must take place simultaneously at all levels of the industry. Analysis of continuing shipping disasters has increasingly implicated the human element. The loss of life, the impact on company profits and credibility, and the vast environmental damage that can result from the loss of even a single vessel remain clear. The Guide offers insight, explanation and advice to help manage the human element more effectively, more safely and more profitably.

Marine Applications of Advanced Fibre-reinforced Composites-Jasper Graham-Jones 2015-09-28 The marine environment presents significant challenges for materials due to the potential for corrosion by salt water, extreme pressures when deeply submerged and high stresses arising from variable weather. Well-designed fibre-reinforced composites can perform effectively in the marine environment and are lightweight alternatives to metal components and more durable than wood. Marine Applications of Advanced Fibre-Reinforced Composites examines the technology, application and environmental considerations in choosing a fibre-reinforced composite system for use in marine structures. This book is divided into two parts. The chapters in Part One explore the manufacture, mechanical behavior and structural performance of marine composites, and also look at the testing of these composites and end of life environmental considerations. The chapters in Part Two then investigate the applications of marine composites, specifically for renewable energy devices, offshore oil and gas applications, rigging and sails. Underwater repair of marine composites is also reviewed. Comprehensively examines all aspects of fibre-reinforced marine composites, including the latest advances in design, manufacturing methods and performance Assesses the environmental impacts of using fibre-reinforced composites in marine environments, including end of life considerations Reviews advanced fibre-reinforced composites for renewable energy devices, rigging, sail textiles, sail shape optimisation and offshore oil and gas applications

Ships and Shipping of Tomorrow-Rolf Schönknecht 1983 Looks at possible developments in future shipping technology, including submarine tankers, hydrofoils, ground-effect vehicles, offshore loading stations, and artificial islands

U.S. Government Research Reports- 1964

Simulated Voyages-Division on Engineering and Physical Sciences 1996-04-21 This book assesses the state of practice and use of ship-bridge simulators in the professional development and licensing of deck officers and marine pilots. It focuses on full-mission computer-based simulators and manned models. It analyzes their use in instruction, evaluation and licensing and gives information and practical guidance on the establishment of training and licensing program standards, and on simulator and simulation validation.

Drawdown-Paul Hawken 2017-04-18 • New York Times bestseller • The 100 most substantive solutions to reverse global warming, based on meticulous research by leading scientists and policymakers around the world “At this point in time, the Drawdown book is exactly what is needed; a credible, conservative solution-by-solution narrative that we can do it. Reading it is an effective inoculation against the widespread perception of doom that humanity cannot and will not solve the climate crisis. Reported by-effects include increased determination and a sense of grounded hope.” —Per Espen Stoknes, Author, What We Think About When We Try Not To Think About Global Warming “There’s been no real way for ordinary people to get an understanding of what they can do and what impact it can have. There remains no single, comprehensive, reliable compendium of carbon-reduction solutions across sectors. At least until now. . . . The public is hungry for this kind of practical wisdom.” —David Roberts, Vox “This is the ideal environmental sciences textbook—only it is too interesting and inspiring to be called a textbook.” —Peter Kareiva, Director of the Institute of the Environment and Sustainability, UCLA In the face of widespread fear and

apathy, an international coalition of researchers, professionals, and scientists have come together to offer a set of realistic and bold solutions to climate change. One hundred techniques and practices are described here—some are well known; some you may have never heard of. They range from clean energy to educating girls in lower-income countries to land use practices that pull carbon out of the air. The solutions exist, are economically viable, and communities throughout the world are currently enacting them with skill and determination. If deployed collectively on a global scale over the next thirty years, they represent a credible path forward, not just to slow the earth's warming but to reach drawdown, that point in time when greenhouse gases in the atmosphere peak and begin to decline. These measures promise cascading benefits to human health, security, prosperity, and well-being—giving us every reason to see this planetary crisis as an opportunity to create a just and livable world.
Troubleshooting Marine Switchgears and Controls-ALEXANDR. YAKIMCHUK 2018
Marine Engineers Review- 2001
Hatch Cover Maintenance and Operation-David Byrne 2005 AN ILLUSTRATED GUIDE EXPLAINING THE FUNDAMENTAL IMPORTANCE OF WEATHERTIGHT HATCH COVERS TO THE SAFE AND PROFITABLE OPERATION OF CARGO SHIPS.
Marine Engineering/log- 1986
Mooring of Ships to Piers and Wharves-John Gaythwaite 2014-10
Engineering Stories-Kenneth Richard Hardman 2013-05-01 A collection of realistic engineering adventure stories. Ken Hardman connects the design and development process taught in engineering school to the exciting challenges faced every day in real engineering practice.--Back cover.
Canadian Shipping and Marine Engineering News- 1969
Marine Electrical Technology, 4/e H/C-Elstan A Fernandez 2004-08-17 The Book has been thoroughly revised, keeping in mind the rapid technological advances in this mammoth industry and also the feedback received from various quarters. Relevant extracts from current SOLAS. IACS, Lloyd's Register, DNV and ABS Rules, have been included with permission. However, these must be used only for academic purposes. Relevant current documents onboard ships musl be referred to, for the purpose of complying with Classification Societies' and other Statutory Requirements.

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