

Lng Shipping Solutions 2017 W Rtsil

This book provides a coherent and systematic view of the key concepts, principles, and techniques in maritime container transport and logistics chains including all the main segments: international maritime trade and logistics, freight logistics, container logistics, vessel logistics, port and terminal management, and sustainability issues in maritime transport. Container Logistics and Maritime Transport emphasizes analytical methods and current optimization models to tackle challenging issues in maritime transport and logistics. This book takes a holistic approach to cover all the main segments of the container shipping supply chains to achieve an efficient and effective logistics service system across the entire global transport chain. Sustainability issues such as social concern and carbon emissions from shipping and ports are also discussed. Each maritime transport segment is addressed using an approach from qualitative/descriptive analytics to quantitative/prescriptive analytics. Cutting-edge optimization models are presented and explained to tackle various strategic, tactical, and operational planning problems. The book will help readers better understand operations management in global maritime container transport chain. It will also provide practical principles and effective techniques and tools for researchers to push forward the frontiers of knowledge and for practitioners to implement decision support systems. It will be directly relevant to academic courses related to maritime transport, maritime logistics, transport

management, international shipping, port management, container shipping, container logistics, shipping supply chain, and international logistics.

Liquefied natural gas (LNG) is a commercially attractive phase of the commodity that facilitates the efficient handling and transportation of natural gas around the world. The LNG industry, using technologies proven over decades of development, continues to expand its markets, diversify its supply chains and increase its share of the global natural gas trade. The Handbook of Liquefied Natural Gas is a timely book as the industry is currently developing new large sources of supply and the technologies have evolved in recent years to enable offshore infrastructure to develop and handle resources in more remote and harsher environments. It is the only book of its kind, covering the many aspects of the LNG supply chain from liquefaction to regasification by addressing the LNG industries' fundamentals and markets, as well as detailed engineering and design principles. A unique, well-documented, and forward-thinking work, this reference book provides an ideal platform for scientists, engineers, and other professionals involved in the LNG industry to gain a better understanding of the key basic and advanced topics relevant to LNG projects in operation and/or in planning and development. Highlights the developments in the natural gas liquefaction industries and the challenges in meeting environmental regulations Provides guidelines in utilizing the full potential of LNG assets Offers advices on LNG plant design and operation based on proven practices and design

experience Emphasizes technology selection and innovation with focus on a “fit-for-purpose design Updates code and regulation, safety, and security requirements for LNG applications

This second edition provides extensive information on the attributes of the Natural Gas Hydrate (NGH) system, highlighting opportunities for the innovative use and modification of existing technologies, as well as new approaches and technologies that have the potential to dramatically lower the cost of NGH exploration and production. Above all, the book compares the physical, environmental, and commercial aspects of the NGH system with those of other gas resources. It subsequently argues and demonstrates that natural gas can provide the least expensive energy during the transition to, and possibly within, a renewable energy future, and that NGH poses the lowest environmental risk of all gas resources. Intended as a non-mathematical, descriptive text that should be understandable to non-specialists as well as to engineers concerned with the physical characteristics of NGH reservoirs and their production, the book is written for readers at the university graduate level. It offers a valuable reference guide for environmentalists and the energy community, and includes discussions that will be of great interest to energy industry professionals, legislators, administrators, regulators, and all those concerned with energy options and their respective advantages and disadvantages.

With over 80 per cent of global trade by volume and more than 70 per cent of its value being carried on board

ships and handled by seaports worldwide, the importance of maritime transport for trade and development cannot be overemphasized. The 2017 Review of Maritime Transport presents and discusses key developments in the world economy and international trade and related impacts on shipping demand and supply, freight and charter markets, as well as seaports and the regulatory and legal framework. In addition to relevant developments in 2016 and the first half of 2017, this year's edition of the Review also features a special chapter on maritime transport connectivity, reflecting the prominence of physical and electronic connectivity as a priority area in the trade and development policy agenda.

This book contributes to the identification and systematisation of current telematics solutions applied in maritime and inland waterway transport. It represents the first time that most telematics systems currently applied in the modes of water transport have been described in detail. The volume details the massive scope of the application of telematics solutions in maritime transport, showing how it ranges from simple systems of navigation to unmanned systems which have resulted in the first attempts at launching fully autonomous vessels. The current challenges in the field involve the integration of the systems of maritime and inland waterway transport within the framework of multimodal transport operations. This volume is designed to place in context the passionate controversies and emotional attachments of the two billion people who live, study, work, love, and die in the Middle East and South Asia.

Progress in Maritime Technology and Engineering collects the papers presented at the 4th International Conference on Maritime Technology and Engineering (MARTECH 2018, Lisbon, Portugal, 7–9 May 2018). This conference has evolved from a series of biannual national conferences in Portugal, and has developed into an international event, reflecting the internationalization of the maritime sector and its activities. MARTECH 2018 is the fourth in this new series of biannual conferences. Progress in Maritime Technology and Engineering contains about 80 contributions from authors from all parts of the world, which were reviewed by an International Scientific Committee. The book is divided into the subject areas below: - Port performance - Maritime transportation and economics - Big data in shipping - Intelligent ship navigation - Ship performance - Computational fluid dynamics - Resistance and propulsion - Ship propulsion - Dynamics and control - Marine pollution and sustainability - Ship design - Ship structures - Structures in composite materials - Shipyard technology - Coating and corrosion - Maintenance - Risk analysis - Offshore and subsea technology - Ship motion - Ships in transit - Wave-structure interaction - Wave and wind energy - Waves Progress in Maritime Technology and Engineering will be of interest to academics and professionals involved in the above mentioned areas. This book presents the latest scientific views on resource use conflicts in the Arctic seas. The main areas of focus are the biological resources of Arctic seas vs. exploitation of oil and gas resources, and the conflicts in between. In addition, climate change is presented as a

stressor, which both limits and facilitates the economic availability of resources in the Arctic. The book is divided into five parts. Part 1 examines Arctic ecosystems, resilience of the marine environment and possible conflicts between industrial sector and biological world. The focus of Part 2 is on transport infrastructure along the northern routes. Issues such as Arctic maritime operations, black carbon and unmanned aerial vehicles are considered. Part 3 focuses on resource use conflicts in Arctic seas and on the most recent threats in terms of Arctic oil and gas exploration, offshore logistics operations as well as transportation of oil and oil products. Discussions in Part 4 of the book are concentrated around social aspects and involvement of local communities. Tourism development, preservation of indigenous culture, engagement of communities on relevant Arctic issues, search and rescue in the cold marine environment are examples of questions raised. The book reviews Arctic-specific petroleum regulations, the state of preparedness to oil spill accidents in the region as well as the latest developments in oil spill response technologies and their limitations. Search and rescue operations are reviewed and how working in this harsh Arctic environment affects the ability of rescue technicians to perform the required technical skills. Part 5 considers the sustainability challenges arising from the marine resource exploitation. The focus is on the vulnerability of Arctic ecosystems to disturbance – both natural and anthropogenic.

Disputes in the energy and natural resources sector are at the heart of international arbitration. With more

arbitrations arising in the international energy sector than in any other sector, it is not surprising that the highest valued awards in the history of arbitration come from energy-related arbitrations. Energy disputes often involve complex and controversial issues relating to security, sovereignty, and public welfare. International Arbitration in the Energy Sector puts international energy disputes into a global context, providing broad coverage of different forms and systems of dispute resolution across both renewable and non-renewable sectors. With contributions from leading practitioners, arbitrators, academics, and industry experts from across the globe, the eighteen chapters in the book enable readers to compare the approaches to, and learnings from, energy arbitrations across various legal systems and geographic regions. After outlining the international energy arbitration legal framework, the text delves into a detailed analysis of the problems which regularly arise in practice. These include, among other things, commercial disputes in Part I (e.g. over the upstream oil sector and long-term gas supply contracts), investor-state disputes in Part II (e.g. under the Energy Charter Treaty), and public international law disputes in Part III (e.g. concerning international boundaries and the distribution of natural resources). Alongside recent developments in the international energy sector, attention is given to climate and sustainable

development disputes, which raise important questions about enforcing sustainability objectives on individuals, corporations, and states. Backed by analyses of arbitral awards, national court and international tribunal decisions, treaties, and other international legal instruments, as well as current events and news in the energy industry, this text offers a unique contribution to international energy literature and provides insightful commentary on the prevalent issues in the field. It is essential reading for any practitioner or researcher in the energy and natural resources sector.

This series contains the decisions of the Court in both the English and French texts.

This interdisciplinary book is written for government and industry professionals who need a comprehensive, accessible guide to modern energy security. Introducing the ten predominant energy types, both renewable and non-renewable, the book illustrates the modern energy landscape from a geopolitical, commercial, economic and technological perspective. Energy is presented as the powerhouse of global economic activities. To ensure the uninterrupted supply of energy, nations, industries and consumers need to have options. Efficient energy security planning ensures that when a primary energy source is depleted, compromised or interrupted, an alternative energy source must be readily available. For this reason, the foundations of

energy security are built upon the five pillars of Sustainability, Independence, Efficiency, Affordability and Accessibility. The numerous case studies presented in this book demonstrate that energy security may be compromised in the absence of one out of these five ingredients. The book also entertains the Triple-E notion of Energy Efficiency, Environmental integrity and Economies of scale, used by governments and corporations for energy optimization. One of the key strengths of the book is its ability effectively to cover various scientific disciplines, and several energy types, while remaining comprehensible. This book will be of much interest to security or logistics professionals, economists and engineers, as well as policymakers. This book examines the current and controversial topic of the sulphur cap in maritime supply chains, a new regulation set to be enforced in 2020. The author presents extensive research on three northern countries - Finland, Sweden and Estonia - and the effects they felt when these regulations were rolled out in 2015. These regional case studies are presented alongside extensive private sector data, annual reports and interviews to assess and forecast how the maritime supply chain will cope with rising costs and alternative approaches to environmental regulations. This book includes advanced regression analyses alongside interactive simulation models for the reader to evaluate new supply chain strategies

and study the effects of these regulations.

The Review of Maritime Transport is an UNCTAD flagship publication, published annually since 1968 with 2018 marking the 50 year anniversary. Around 80 per cent of the volume of international trade in goods is carried by sea, and the percentage is even higher for most developing countries. The Review of Maritime Transport provides an analysis of structural and cyclical changes affecting seaborne trade, ports and shipping, as well as an extensive collection of statistical information.

In today's developing world, international trade is a field that is rapidly growing. Within this economic market, traders need to implement new approaches in order to satisfy consumers' rising demands. Due to the high level of competition, merchants have focused on developing new transportation and logistics strategies. In order to execute effective transportation tactics, decision makers need to know the fundamentals, current developments, and future trends of intercontinental transportation. The Handbook of Research on the Applications of International Transportation and Logistics for World Trade provides emerging research exploring the effective and productive solutions to global transportation and logistics by applying fundamental and in-depth knowledge together with current applications and future aspects. Featuring coverage on a broad range of topics such as international

regulations, inventory management, and distribution networks, this book is ideally designed for logistics authorities, trading companies, logistics operators, transportation specialists, government officials, managers, policymakers, researchers, academicians, and students.

JAIR Journal of International Relations (JAIR J. Int. Relat.) is a biennial, peer-reviewed, refereed journal of International Relations published by The Jadavpur Association of International Relations with the financial assistance from the Indian Council of Social Science Research (ICSSR), New Delhi.

This handbook provides a wide-ranging, coherent, and systematic analysis of maritime management, policy, and strategy development. It undertakes a comprehensive examination of the fields of management and policy-making in shipping by bringing together chapters on key topics of seminal scientific and practical importance. Within 21 original chapters, authoritative experts describe and analyze concepts at the cutting edge of knowledge in shipping. Themes include maritime management and policy, ship finance, port and maritime economics, and maritime logistics. A study examines the determinants of ship management fees. Aspects of corporate governance in the shipping industry are reviewed and there is a critical review of the ship investment literature. Other topics featured include the organization and management of tanker and dry

bulk shipping companies, environmental management in shipping with reference to energy-efficient ship operation, a study of the BIMCO Shipping KPI standard, utilizing the Bunker Adjustment Factor as a strategic decision-making instrument, and slow steaming in the maritime industry. All chapters are written to provide implications for further advancement in professional practice and research. The Routledge Handbook of Maritime Management will be of great interest to relevant students, researchers, academics, and professionals alike. It provides abundant opportunities to guide further research in the areas covered but will also initiate and inspire effective maritime management.

The ITF Transport Outlook provides an overview of recent trends and near-term prospects for the transport sector at a global level as well as long-term prospects for transport demand to 2050. The analysis covers freight (maritime, air, surface) and passenger transport (car, rail, air) as well ... This book contains a collection of peer-review scientific papers about marine engines' performance and emissions. These papers were carefully selected for the "Marine Engines Performance and Emissions" Special Issue of the Journal of Marine Science and Engineering. Recent advancements in engine technology have allowed designers to reduce emissions and improve performance. Nevertheless, further efforts are needed to comply with the ever increased emission legislations. This book was conceived for people interested in marine engines. This information concerning recent developments may be helpful to academics,

researchers, and professionals engaged in the field of marine engineering.

This is volume 1 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.

Special edition of the Federal Register, containing a codification of documents of general applicability and future

effect ... with ancillaries.

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

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

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

World Seas: An Environmental Evaluation, Second Edition, Volume Three: Ecological Issues and Environmental Impacts covers global issues relating to our seas, including a biological description of the coast and continental shelf waters, the development and use of the coast, landfills and their effects, pollutant discharges over time, the effects of over-fishing, and the management methods and techniques used to ensure continued ecosystem functioning. The relative

importance of water-borne and airborne routes differ in different parts of the world is explored, along with extensive coverage of major habitats and species groups, governmental, education and legal issues, fisheries effects, remote sensing, climate change and management. This book is an invaluable, worldwide reference source for students and researchers concerned with marine environmental science, fisheries, oceanography and engineering and coastal zone development. Provides scientific reviews of regional issues, empowering managers and policymakers to make progress in under-resourced countries and regions Covers environmental issues arising from the human use of both the sea and its watershed Presents informed commentary on major trends, problems and successes, and recommendations for the future 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 1 is dedicated to maritime transportation, ports and maritime traffic, as well as maritime safety and reliability. It further comprises sections dedicated to ship design, cruise ship design, and to the structural aspects of ship design, such as ultimate strength and composites, subsea structures as pipelines, and to ship building and ship repair.

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.

Port Development and Competition in East and Southern Africa analyzes the 15 main ports in East and Southern Africa (ESA) to assess whether their proposed capacity enhancements are justified by current and projected demand; whether the current port management approaches sufficiently address not only the maritime capacity needs but also other impediments to port efficiency; and what the

expected hierarchy of ports in the region will be in the future. The analysis confirms the need to increase maritime capacity, as the overall container demand in the ports in scope is predicted to begin exceeding total current capacity by between 2025 and 2030, while gaps in terms of dry and liquid bulk handling are expected even sooner. However, in the case of many of the ports, the issue of landside access—the ports’ intermodal connectivity, the ease of international border crossing, and the port-city interface—is more important than the need to improve maritime access and capacity. The analysis finds that there is a need to improve the operating efficiency in all of the ESA ports, as they are currently less than half as productive as the most efficient ports in the matched data set of similar ports across the world, in terms of efficiency in container-handling operations. Similarly, there is a need to improve and formalize stakeholder engagement in many of the ports, to introduce modern management systems, and to strengthen the institutional framework to ensure the most efficient use of the infrastructure and to be able to attract private capital and specialist terminal operators. Finally, given the ports’ geographic location and proximity to main shipping routes, available draft, and the ongoing port-and-hinterland development, the book concludes that Durban and Djibouti are the most likely to emerge as the regional hubs in ESA’s future hub-

and-spoke system.

Oil, Gas, and Mining: A Sourcebook for Understanding the Extractive Industries provides developing countries with a technical understanding and practical options around oil, gas, and mining sector development issues. A central premise of the Sourcebook is that good technical knowledge can better inform political, economic, and social choices with respect to sector development and the related risks and opportunities. The guidance provided by the Sourcebook assumes a broad set of overarching principles, all centered on good governance and directed at achieving positive and broadly based sustainable development outcomes. This Sourcebook is rich in presenting options to challenges, on the understanding that contexts and needs vary, and that there is much to be gained from appreciating the lessons learned from a broad set of experiences.

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 & Fishing; Construction; Defence & Security; Design; Dynamic response of structures; Degradation/ Defects in structures; Electrical

equipment of ships; Human factors; Hydrodynamics; Legal/Social aspects; Logistics; Machinery & Control; 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 & propellers; Ship resistance; Shipyards; Small & pleasure crafts; 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. This book examines how recent fundamental changes influence Sino-Russian relations and the wider long-term implications of the revolving Sino-Russian dynamic on international affairs. It brings together leading scholars to examine recent developments across the whole relationship – from grand strategy and global governance, to bilateral energy and military ties, and regional interaction in Central Asia, Northeast Asia, and the Middle East.

The Sino-Russian relationship boasts major achievements, but also reveals important differences and latent tensions. The project is intended for policy-makers, academics and students of strategic studies, diplomacy studies, Chinese politics, Russian politics and foreign policy.

This book offers a diverse set of perspectives on the current state of Taiwan's economy and international relations, equally considering the challenges and opportunities that could forge Taiwan's future.

Featuring a range of interdisciplinary approaches, this edited volume has been written by some of the leading scholars on Taiwan's economy and international relations, as well as emerging scholars and writers with practical diplomatic, political, and civil society experience. Contributors cover themes from political economy and international relations to gender studies and civil society-led LGBT diplomacy. Readers will benefit from chapters outlining both the historical overview of Taiwan's development and more recent developments, with several chapters offering focused case studies into Taiwan's economy and international space. A balanced set of conclusions are reached, affording scope for both optimism and pessimism about Taiwan's prospects. Taiwan's Economic and Diplomatic Challenges and Opportunities will appeal to students and scholars of international relations, economics, and Taiwan studies.

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.

As the United States aggressively expands its exports of liquefied natural gas, it stands poised to become an energy superpower. This unanticipated reality is rewriting the conventional rules of intercontinental gas trade and realigning strategic relations among the United States, the European Union, Russia, China and beyond, as Agnia Grigas shows.

This book provides an overview of contemporary trends and challenges in maritime energy management (MEM).

Coordinated action is necessary to achieve a low carbon and energy-efficient maritime future, and MEM is the prevailing framework aimed at reducing greenhouse gas emissions resulting from maritime industry activities. The book familiarizes readers with the status quo in the field, and paves the way for finding solutions to perceived challenges. The 34 contributions cover six important aspects: regulatory framework; energy-efficient ship design; energy efficient ship and port operation; economic and social dimensions; alternative fuels and wind-assisted ship propulsion; and marine renewable energy. This pioneering work is intended for researchers and academics as well as practitioners and policymakers involved in this important field.

Now in its eighth edition, this classic text is a first point of reference for anyone looking to obtain an understanding of chartering and shipbroking practice. It provides hands-on, commercially-focused explanations of chartering business and invaluable advice on how the shipping market operates across a broad range of topics. The authors also deal expertly with the legal, financial, operational and managerial aspects of chartering, offering numerous case studies which clearly link theory to practice. This new edition has been fully revised and updated to reflect the current trends in chartering practice, legal developments and standard forms of charterparties. New to this edition: Enriched with practical examples covering crucial aspects of chartering and shipbroking business, such as voyage estimations, freight conversions and tanker calculations. New material on day-to-day laytime principles, including "Laytime Definitions for Charterparties 2013", associated commentary and relevant examples. Shipping Marketing as a modern tool of improving chartering and shipbroking business. Expanded coverage of the economic background of chartering, including markets, vessels, cargoes, trades and fixtures. Freight rates for all

vessel types from 1980 to 2015. Updated review of well-known standard charterparty documents (including NYPE 2015), together with clauses and wordings commonly applying to various charter types. Analytical glossary containing typical terms and abbreviations used in chartering negotiations. This book is an essential guide for practitioners in private practice and in-house for shipowners and cargo houses, as well as those studying shipbroking and chartering.

Review of Maritime Transport 2018

This book considers both the present state of Arctic shipping and possible future trends with reference to the various sectors of maritime transportation: cruise tourism, container traffic and bulk shipping. Ports are analysed as tools that support the strategies of coastal states to foster the development of resource extraction, enhance the attractiveness of Arctic shipping lanes and enable the control of maritime activities through coast guard deployment. The aim of this book is to draw a picture of the trends of Arctic shipping. How is traffic evolving in Canada's Arctic, or along the Northern Sea Route? Are there significant differences between bulk and container shipping segments when considering the Arctic market? How are the ports and the hinterland developing and what are the strategies behind those? How is the legal framework shaping the evolution of maritime transportation? The contributors to this book consider all of these questions, and more, as they map out the prospects for Arctic shipping and analyse in detail the development of Arctic shipping as a result of multi-variable interactions. This book will be key reading for industry professionals and post-graduate students alike.

This book is a printed edition of the Special Issue "Sustainable Freight Transport" that was published in Sustainability

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