

## Maritime Logistics A Complete Guide To Effective Shipping And Port Management

Maritime-Port Technology and Development contains the latest research results and innovations as presented at the 2014 International Maritime and Port Technology and Development Conference (Trondheim, Norway, 27- 29 October 2014). The volume is divided into a wide range of topics: Efficient and environmentally friendly energy use in ships and port

Designed for students, young managers and seasoned practitioners alike, this handbook explains the nuts and bolts of the modern logistics and distribution world in plain language. Illustrated throughout, this second edition includes new chapters on areas previously not covered, such as: Intermodal transport; benchmarking; environmental matters; and vehicle and depot security. Whilst the maritime container business has been studied in depth, the impact on shippers and how shippers deal with the given challenges has not been fully examined. Container Logistics bridges this gap and looks at the maritime business from a customer's perspective. The book examines the challenges, solutions and the latest developments in the container industry as well as the interaction between the different actors involved, such as freight forwarders, supply chain managers and shippers. Current hot topics from the supply chain and the maritime business perspective are included. From the supply chain perspective, Container Logistics covers areas such as the purchase of transportation services from ocean carriers and transport management, to effective and efficient logistics execution. From the maritime business perspective, the book covers topics such as intermodal freight optimisation and hinterland transportation, and terminal and port optimisation. With the inclusion of clear examples of best practice and bona fide case studies, as well as invaluable contributions from an international team of experts, Container Logistics is an essential guide for supply chain managers and shippers, as well as academics and industry professionals working in the maritime business. Online supporting resources include images from the book and a chapter summary.

This comprehensive book covers all major aspects of the design and maintenance of port facilities, including port planning, design loads for today's larger vessel size, seismic design guidelines, and breakwater design. New material addresses environmental concerns, the latest developments on inter-modal hubs and transfer points, and the latest information on port security and procedures being implemented around the world.

Lean Supply Chain and Logistics Management  
International Handbook of Maritime Business  
Port Management and Operations  
Handbook of Ocean Container Transport Logistics  
The Handbook of Logistics and Distribution Management

*Master the key technological developments, risks and threats within maritime logistics using the formative approach presented by this key textbook.*  
*"Professor Burns has captured the essence of transportation security, one of today's most pressing concerns. As the rate of globalization and world trade increases, security and supply chain resilience are at the core of ones global transportation network. This is a timely and well written contribution to the industry."*John A. Moseley, Senior Dir  
*This book is the founding title in the Grammes Library. The diversity of the subjects covered is unique and the results of research developed over many years are not only comprehensive, but also have important implications on real life issues in maritime business. The new edition covers a vast number of topics, including: \*Shipping Economics and Maritime Nexus \*International Seaborne Trade \*Economics of Shipping Market and Shipping Cycles \* Economics of Shipping Sectors \*Issues in Liner Shipping \*Economics of Maritime Safety and Seafaring: Labour Market \*National and International Shipping Policies \*Aspects of Shipping Management and Operations\* Shipping Investment and Finance \*Port Economics and Management \*Aspects of International Logistics*

*This book provides a thorough understanding of Short Sea Shipping (SSS) and its role in transport chains, presenting a revision of EU policies for SSS. Infrastructure and equipment required for the success of SSS are discussed, including critical features of modern roll-on/roll-off (Ro-Ro) ships and terminals. Models are proposed for the evaluation of transportation demand in SSS, including the potential effects of external costs, and its results are used within the scope of methods for Ro-Ro ship and fleet sizing. A discussion of methods used to calculate such costs is provided, and a comparison of aggregated demand with and without internalisation of external costs is carried out, pointing towards solutions for 'greening' freight transportation. Applications of multi-criteria decision-making and simulation techniques to supply chains based on SSS are presented. The role of information and communication technologies (ICT) in the promotion of SSS is also discussed. A number of case studies illustrate the different research methods and techniques. This book is a useful resource for students and researchers studying transportation, as well as policymakers and practitioners involved in this field and anyone with an interest in the promotion of environmentally sound transport systems.*

Port Engineering  
Maritime Supply Chains  
Shipping and Logistics Management  
Principles of Chartering  
Freight Transport and Distribution  
Maritime Logistics Complete Guide to Effective Shipping and Port ManagementKogan Page Publishers  
Sea freight remains overwhelmingly the most common form of transport for goods globally. Grasp the core theories and understand the latest research in maritime logistics, along with how this field operates and contributes to global supply chains, with this key textbook. Maritime Logistics provides a complete overview of the core concepts within this discipline from a range of international expert contributors. This textbook examines the recent developments in the ports and shipping industries including supply chain strategies and emerging, innovative practices. Designed for maritime students and professionals, the structure offers a complete approach with an emphasis on developing a well-rounded knowledge and understanding of the field. The third edition is fully updated with new content on maintenance optimization, supply chain integration, economics of scale, carrier shipping and port performance and management. In addition, this edition examines new technologies, considers new and existing risks to the maritime supply chain as well as generally how maritime logistics will continue to evolve. For those seeking to become maritime logistics specialists, this is the authoritative companion.

Maritime Supply Chains treats the maritime chain into components, consistently relating them to the overall integrated supply chain. The book not only analyzes and provides solutions to frequently encountered problems and key operational issues, it also applies cutting-edge scientific techniques on the maritime supply chain. Sections consider shipping, ports and terminals, hinterland and the issues that intersect different parts of the chain. Readers will find discussions of the various actors at play and how they relate to the overall function of the supply chain. Finally, the book offers solutions to the most pressing problems, thus providing a unique, well-balanced account. Provides a comprehensive and integrative account of the maritime supply chain, from shipping, to port, to hinterland Cuts through the maritime supply chain to offer a transversal picture on how the chain functions Applies rigorous analytical techniques to give solutions to the most frequent and pressing challenges facing maritime supply chains Considers advances, such as blockchain, that are set to transform maritime supply chains Effective logistics management has played a vital role in delivering products and services, and driving research into finding ever improving theoretical and technological solutions. While often thought of in terms of the business world, logistics and operations management strategies can also be effectively applied within the military, aeronautical, and maritime sectors. The Handbook of Research on Military, Aeronautical, and Maritime Logistics and Operations compiles interdisciplinary research on diverse issues related to logistics from an inclusive range of methodological perspectives. This publication focuses on original contributions in the form of theoretical, experimental research, and case studies on logistics strategies and operations management with an emphasis on military, aeronautical, and maritime environments. Academics and professionals operating in business environments, government institutions, and military research will find this publication beneficial to their research and professional endeavors.

Third Edition  
Logistics and Transportation Security  
Short Sea Shipping in the Age of Sustainable Development and Information Technology  
Handbook of Research on Military, Aeronautical, and Maritime Logistics and Operations  
The Handbook of Maritime Economics and Business

Cargo management, especially in the maritime sphere, plays a vital role in the transfer of goods between seller and buyer. However, despite over 90% of the world's international trade being conducted by sea, often very little is known about this subject by either party. This unique text provides a clear and comprehensive introduction to the principal elements involved in the management of marine cargo and the carriage of goods by sea. Not only does it analyze key theories and debates in the maritime freight sector, it is equally instructive on practice and logistics. Furthermore, the book provides a thorough guide to the roles and responsibilities of all parties involved in this dynamic industry. This second edition has been fully revised and updated to incorporate the very latest changes in cargo management legislation and procedures, including: offshore oil & gas supply management The revised INCOTERMS 2010 Tramp shipping and spot cargo trading Project cargo management Dry and liquid bulk cargo management The IMDG Code and the marine carriage of dangerous and hazardous goods Cabotage Salvage Risk management and best practice This is an essential guide for shipping professionals, academics and students of marine logistics, and international trade.

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 analysis 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.

Warehouses are an integral link in the modern supply chain, ensuring that the correct product is delivered in the right quantity, in good condition, at the required time, and at minimal cost: in effect, the perfect order. The effective management of warehouses is vital in minimizing costs and ensuring the efficient operation of any supply chain. Warehouse Management is a complete guide to best practice in warehouse operations. Covering everything from the latest technological advances to current environmental issues, this book provides an indispensable companion to the modern warehouse. Supported by case studies, the text considers many aspects of warehouse management, including: cost reduction productivity people management warehouse operations With helpful tools, hints and up-to-date information, Warehouse Management provides an invaluable resource for anyone looking to reduce costs and boost productivity.

With 80 percent of the world's commodities being transported by water, ports are the pillars of the global economy. Port Management and Operations offers readers the opportunity to enhance their strategic thinking and problem-solving skills, while developing market foresight. It examines global port management practices at the regulatory, commercial, technological, operational, financial, and sociopolitical levels. This powerful sourcebook describes how seaports are being affected by the changes occurring nationally, regionally, and globally. Evaluating the new regulatory framework, it pinpoints the industry's implementation readiness and identifies potential problem areas. The book classifies the spectrum of interrelated port management principles, strategies, and activities in a logical sequence and under four cornerstones—Port Strategy and Structure, Legal and Regulatory Framework, Input: Factors of Production, and Output and Economic Framework. Detailing best practices and the latest industry developments, the book highlights emerging challenges for port managers and identifies opportunities to develop forward-thinking strategies. It examines the effectiveness of current strategies, tactics, tools, and resources of numerous global ports and highlights the necessity of adopting a proactive stance in harmonizing the laws, regulations, and policies pertaining to the maritime, oil, and gas industries. The shipping industry has myriad complexities and this book provides maritime managers and professionals with the wide-ranging and up-to-date understanding required to thrive in today's highly competitive and evolving environment.

Warehouse Management  
Oil Transport Management  
A Strategic, Tactical, and Operational Guide to Resilience  
Planning, Construction, Maintenance, and Security  
Review of Maritime Transport 2016

The Review of Maritime Transport is an UNCTAD flagship publication, published annually since 1968. It provides an analysis of structural and cyclical changes affecting seaborne trade, ports and shipping, as well as an extensive collection of statistical information. The present edition of the Review of Maritime Transport takes the view that the long-term growth prospects for seaborne trade and maritime businesses are positive, with ample opportunities for developing countries to generate income and employment and help promote foreign trade.

Now in its second edition Maritime Economics provides a valuable introduction to the organisation and workings of the global shipping industry. The author outlines the economic theory as well as many of the operational practicalities involved. Extensively revised for the new edition, the book has many clear illustrations and tables. Topics covered include: \* an overview of international trade \* Maritime Law \* economic organisation and principles \* financing ships and shipping companies \* market research and forecasting.

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 shipping environment. 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.

This book is focused on the impact of ocean transport logistics on global supply chains. It is the first book solely dedicated to the topic, linking the interaction of parties along this chain, including shippers, terminal operators and line carriers. While ocean container transport logistics has been greatly studied, there are many important issues that have yet to receive the attention they deserve. The editors and contributing authors of Ocean Container Transport Logistics: Making Global Supply Chain Effective seek to address these topics and shed new light on the subject. The book is divided into three parts. Part I examines the innovation, trends, competition and business model of container terminal operations. In Part II, the book looks at how tactical and operational management is used in shipping liners. The chapters cover topics such as empty container repositioning, slow steaming, routing, network design and disruption management. Finally Part III explores at shippers and global supply chain management, with chapters on transportation service procurement, hinterland transportation, green shipping operations management.

Container Logistics  
Handbook of Research on the Applications of International Transportation and Logistics for World Trade  
Port Economics  
A Complete Guide to Improving Efficiency and Minimizing Costs in the Modern Warehouse

Chartering describes the process by which a ship is leased for the transportation of goods. Knowledge of this complex, multifaceted field is vital for anyone seeking success in the shipping industry. In this third edition of Principles of Chartering, shipping and maritime economics expert Photis M. Panayides, PhD, offers a revised and updated version of his seminal work on chartering contracts. Beginning with an introduction of the concept of chartering and how it applies to various types of ships, cargo, and trade routes, Panayides goes on to explore all aspects of chartering, including charterparties, shipbroking, bills of lading, voyage and time chartering, and more. Panayides offers a comprehensive overview of chartering principles, supported by real-life examples of orders, offers, and negotiations. Key points are addressed in plain language, while a glossary of over 1,300 chartering terms helps readers quickly understand chartering terminology and abbreviation. In this new edition, Panayides expands and updates his previous exploration of voyage estimation principles while referring to more than seventy legal cases that influenced current commercial chartering practices. Principles of Chartering provides the information you need to succeed in commercial shipping, all in an easy-to-access format.

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 topical issues, the book includes 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.

Contemporary practice and scientific innovation consider the logistics aspects of shipping or maritime and seaport operations as one of the most important areas for development of competitive advantages in business and for study and research. This book covers issues having a significant impact on the industry. A Complete Guide to Effective Shipping and Port Management

The Role of the Container in the Supply Chain  
Applications and Cases  
Concepts and Optimisation Models

**Business and Economics of Port Management is a comprehensive but concise textbook and reference for insights into the workings of port industry from the business and economics perspectives. The book examines port management from various entities which include the government, port operator, shipping line, logistics companies and other port service providers. It provides in-depth discussions on strategic issues, challenges and disruptions that are faced by this industry. Given the uniqueness of each port and international nature of the port business, the book comes with useful case studies and lessons from different port regions around the world. Key lessons on challenges and issues faced by port managers, developers and regulators are highlighted and discussed using a combination of professional insights and publicly available information sources. The aim is to illustrate the decision-making process with the purpose of contributing to better outcomes for the industry, government and the public at large. Anyone who is approaching the subject matter will gain utmost understanding of how ports are critical in the global economy and societal well-being.**

Shipping and Logistics Management serves to consolidate the knowledge its authors have acquired from being educators and observers of the shipping industry. Against the background of a global business environment, it explains how the shipping market functions, examining the strategic and operational issues that affect entrepreneurs in this industry. It also discusses global trends and strategies in the shipping business, looking at the role of logistics service providers and at how the use of information technology can help shipping operations. Shipping and Logistics Management also aims to answer several important questions in the shipping industry, including: what are the shipping cost structures?, what are the patterns of sea transport? and how do companies in the shipping industry operate? 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. Bills of Lading form an essential part of the carriage of goods by sea and international trade. Their multi-functional nature, together with the large volume of case law and regulation, make the law in this field as complex as it is commercially vital. This bestselling book provides a detailed analysis of the law and practice applicable to bills of lading before, during and after shipment, helping today's busy practitioner to quickly and easily find the information they need. This book has been fully revised and updated with all of the major developments since its first edition, including: Reference to increasingly important Singapore and Far-Eastern decisions An analysis of modern developments in seaworthiness, from vetting and approval clauses to the topical issues of vulnerability and piracy attacks Detailed examination of misdelivery, fraudulent or forged bills of lading, and delivery without production of a bill of lading Revised coverage of conflicts and procedural matters, including anti-suit injunctions, jurisdiction battles and the scope of arbitration Reference to relevant European law relating to issues of jurisdiction and procedure Comprehensive treatment of Switched bills, transhipment, house bills, deck carriage and container cargo New material on the practical implications of electronic bills of lading This text continues to provide an indispensable reference for maritime practitioners and institutions worldwide.

This book serves as a primer on freight transportation and logistics, providing a general and broad coverage of concepts, mathematical models and methodologies available for freight transportation planning at strategic, tactical and operational levels. It is aimed at graduate students, and is also a reference book for practitioners in the field. The book includes preliminaries, such as mathematical modeling and optimisation algorithms. The book also features case studies and practical real-life examples to illustrate applications of the concepts and models covered, and to encourage a hands-on and a practical approach. The author has taught and published extensively in the field and draw on state-of-the-art scientific research. He has also been part of a number of practical research projects, which underpin the real life examples in the book.

**Business and Economics of Port Management**  
Contemporary Issues  
Maritime Economics  
Multi-Criteria Decision Making in Maritime Studies and Logistics  
Container Logistics and Maritime Transport

The first volume in a new Springer Series on Shipping and Transport Logistics, Oil Transport Management provides a full historical account of the evolution of the oil transport industry since the 1800's. In this comprehensive guide, the authors investigate the industry and describe the shipping market and its structure, as well as forecasting, location plan and the transportation chain. They dedicate a separate chapter to each topic to cover various concepts, including: an introduction to the tanker shipping market, including how the freight, new vessel building, second hand and demolition markets influence one another, the economic structure and organization of the tanker industry in both the past and present, and forecasting the need for oil-based sea transportation. Further chapters present case studies and simulations to illustrate the importance of factory location decisions and the need for oil infrastructure investments. Chapter One also includes a regression equation to predict the fleet size in tanker shipping. Oil Transport Management is a key reference, which can be practically applied to wider global research and practices. Ideal for both industry practitioners, and researchers and students of shipping studies, Oil Transport Management provides a concise yet comprehensive coverage of the oil transport industry's history and a guide for its future development.

Freight Forwarding and Multimodal Transport Contracts, 2nd Edition, is a comprehensive guide to the law in relation to contract forms and terms created by operators, trade associations or international bodies such as the UN and used as a basis for trading conditions by freight forwarders, logistics suppliers, combined or multimodal transport operators and container operators. This second edition examines the latest editions of contract forms and terms, both where their object is the supply or procurement of multimodal carriage, as well as where they are directed to the use of combined transport equipment (ie containers, swap bodies). Of particular prominence will be a detailed examination of the latest versions of conditions used by the principal UK forwarding, logistics, intermodal and container operators such as the British International Freight Association (BIFA) conditions 2005A and the current Freightliner Conditions as well as updates on many of the conditions in use and legal developments relevant to them, eg Road Haulage Association Conditions 2009, Maersk Conditions of Carriage, TT Club Conditions.

Globalisation and the rapid increase in world trade in the past decade have contributed to greater demand for international transport and logistics and, consequently, the expansion of the maritime industry. The dramatic changes in the mode of world trade and cargo transportation make it more important than ever to have a clear understanding of the way in which freight is transported by sea and the role of ports in this exchange. Maritime Logistics examines the latest development, knowledge and practices taking place in logistics and supply chain within the shipping and shipping industry. Written by a team of international experts, who provide a truly global perspective on this increasingly key area of logistics, the book covers everything that students of logistics, as well as those working within the industry should know and understand including shipping lines, dry bulk and port-centric logistics.

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Logistics Transportation Systems  
The Routledge Handbook of Maritime Management  
Maritime Logistics  
Freight Forwarding and Multi Modal Transport Contracts  
A Guide to Contemporary Shipping and Port Management

Logistics Transportation Systems compiles multiple topics on transportation logistics systems from both qualitative and quantitative perspectives, providing detailed examples of real-world logistics workflows. It explores the key concepts and problem-solving techniques required by researchers and logistics professionals to effectively manage the continued expansion of logistics transportation systems, which is expected to reach an estimated 25 billion tons in the United States alone by 2045. This book provides an ample understanding of logistics transportation systems, including basic concepts, in-depth modeling analysis, and network analysis for researchers and practitioners. In addition, it covers policy issues related to transportation logistics, such as security, rules and regulations, and emerging issues including reshoring. This book is an ideal guide for academic researchers and both undergraduate and graduate students in transportation modeling, supply chains, planning, and systems. It is also useful to transportation practitioners involved in planning, feasibility studies, consultation and policy for transportation systems, logistics, and infrastructure. Provides real-world examples of logistics systems solutions for multiple transportation modes, including seaports, rail, barge, road, pipelines, and airports Covers a wide range of business aspects, including customer service, cost, and decision analysis Features key-term definitions, concept overviews, discussions, and analytical problem-solving

Part 1 is the economic decisions (and their consequences) of the users and providers of port services. A port works as an "engine" for economic development. This text provides a detailed discussion of port freight service users, such as freight water and land carriers, that have their ships and vehicles serviced and their cargoes unloaded by ports, as well as passenger services such as ferry carriers which are serviced by ferry passenger ports. This text continues to enhance our understanding of port economics by exploring the economic theories, supply and demand curves, and the actual and opportunity costs relating to the carriers, shippers and passengers who use ports. This new edition has been updated throughout. This includes: An expanded discussion of container, break-bulk, dry-bulk, liquid-bulk and neo-bulk ports; An introduction of port service chains, hinterland transport chains, maritime transport chains and port multi-service congestion; A discussion of seaborne trade, dry ports, port centrality and connectivity and free trade zones. This updated and comprehensive introduction to port economics will be of benefit to students and researchers in their study of port economics and management. It is also of great importance to professionals who manage and operate ports as well as freight and passenger carriers.

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

A Practical Guide to a Growing Field  
An Insider's Perspective  
Review of Maritime Transport 2020  
Port Economics, Management and Policy  
Introduction to Marine Cargo Management

This book describes a wide range real-case applications of Multi-Criteria Decision Making (MCDM) in maritime related subjects including shipping, port, maritime logistics, cruise ports, waterfront developments, and shipping finance, etc. In such areas, researchers, students and industrialists, in general, felt struggling to find a step-by-step guide on how to apply MCDM to formulate effective solutions to solving real problems in practice. This book focuses on the in-depth analysis and applications of the most well-known MCDM methodologies in the aforementioned areas. It brings together an eclectic collection of twelve chapters which seek to respond to these challenges. The book begins with an introduction and is followed by an overview of major MCDM techniques. The next chapter examines the theory of analytic hierarchy process (AHP) (FAHP) approach and its capability and rationale in dealing with decision problems of ambiguous information. Chapter 4 proposes a genetic methodology to identify the key factors influencing green shipping and to establish an evaluation system for the assessment of shipping greenness. In Chapter 5, the authors describe a new function of fuzzy Evidential Reasoning (ER) to improve the vessel selection process in which multiple criteria with insufficient and ambiguous information are evaluated and synthesized. Chapter 6 presents a novel methodology by using an Artificial Potential Field (APF) model and the ER approach to estimate the collision probabilities of monitoring targets for coastal radar surveillance. Chapter 7 develops the inland port performance assessment model (IPPAM) using a hybrid of AHP, ER and a utility function. The next chapter showcases a challenging approach to address the risk and uncertainty in LNG transfer operations, by utilizing a Stochastic Utility Additives (UTA) method with the help of the philosophy of aggregation—disaggregation coupled with a robustness control procedure. Chapter 9 uses Entropy and Grey Relation Analysis (GRA) to analyze the relative weights of financial ratios through the case studies of the four major shipping companies in Korea and Taiwan: Evergreen, Yang Ming, Hanjin and Hyundai Merchant Marine. Chapter 10 systematically applies modern heuristics to solving MCDM problems in the fields of operation optimisation in container terminals. Arguing that bunkering port selection is typically a multi-criteria group decision problem, and in many practical situations, decision makers cannot form proper judgments using incomplete and uncertain information in an environment with exact and crisp values, in Chapter 11, the authors propose a hybrid Fuzzy-Delphi-TOPSIS based methodology with a sensitivity analysis. Finally, Chapter 12deals with a new conceptual port performance indicators (PPIs) interdependency model using a hybrid approach of a fuzzy logic based evidential reasoning (FER) and a decision making trial and evaluation laboratory (DEMATEL).

The documented remarks to success are the many examples help explicate the complexities for the reader. The book is organized and written so that it will be useful as an introduction to the field and also as a reference when special challenges arise for the practicing manager. " - DR. JOHN J. COYLE, Professor Emeritus of Logistics and Supply Chain Management, Department of Marketing and Information Systems, Smokey College of Business, Pennsylvania State University "The book is a must-read for all supply chain managers seeking to drive down costs and improve profits and must be read before any investment is made in your supply chain. Get copies for your controller and all senior managers...this book lays it all out." - DR. RICHARD LANCIONI, Chair, Marketing & Supply Chain Management, Fox School of Business, Temple University Expert Strategies for Improving Supply Chain and Logistics Performance Using Lean This practical guide reveals how to identify and eliminate waste in your organization's supply chain and logistics function. Lean Supply Chain and Logistics Management provides explanations of both basic and advanced Lean tools, as well as specific Lean implementation opportunities. The book then describes a Lean implementation methodology with critical success factors. Real-world examples and case studies demonstrate how to effectively use this powerful strategy to realize significant, long-term improvements and bottom-line savings. COVERAGE INCLUDES: \* Using Lean to energize your supply chain \* The eight wastes \* Lean opportunities and JIT in supply chain and logistics \* Lean tools and warehouse \* Global lean supply chain and logistics \* Lean opportunity assessment, value stream mapping, and Kaizen event management \* Best-in-class use of technology with Lean \* Metrics and measurement \* Education and training Valuable training slides are available for download.

This book focuses on the management of ship operations, an activity that requires integrative knowledge and technical expertise that spans various disciplines. As such, ship operations personnel are expected to be well-versed with aspects of management, economics, engineering, technology and law. Further, ship operations management requires the ability to identify and neutralize threats and to manage risks and make decisions that optimize costs and contribute to performance improvements. Despite the fundamental nature of ship operations management, no book has ever attempted to reconcile and compile a comprehensive body of knowledge, while pursuing a coherent, structured and systematic approach. This edited volume addresses that fundamental gap in the extant literature, and brings together a wealth of knowledge from experts in their respective fields. Concretely, it explores issues of organization, technical management, crewing and behavioral issues, chartering and port fixture, risk management, finance, legal aspects of international conventions and regulations, attainment of safety, security and marine insurance, as well as ocean governance and sustainability. As such, the book offers a vital reference guide for maritime companies and organizations, while also serving as a teaching supplement in academic and professional maritime programmes.

'Maritime business has grown beyond its traditional areas of shipping and ports to its embedment in international supply chains and logistics systems, the collection of original papers found in this book, not only provides a wealth of information on traditional maritime business, but also on its growing role in supply chains and logistics systems. the papers are readable and of consistent quality and should attract academicians and practitioners who seek information about current practices in maritime business and their impacts.' - Wayne K. Talley, Editor-in-Chief, Transportation Research Part E: Logistics and Transportation Review

Maritime-Port Technology and Development  
The Handbook of Logistics and Distribution Management  
Bills of Lading  
Making Global Supply Chains Effective