## **Handbook Of Port And Harbor Engineering**

Business and Economics of Port Management Planning and Design of Ports and Marine Terminals Port Planning and Management Simulation Policing, Port Security and Crime Control Port Economics Application of GIS Technologies in Port Facilities and Operations Management Port Management and Operations Port and Harbour Engineering Port Cybersecurity Port Management and Operations Port Cities and Global Legacies Handbook of Port and Harbor Engineering Port Economics, Management and Policy Port Planning and Development Design of Marine Facilities Ports and Networks Towards a Better Port Industry Port Infrastructure Finance Port Development and Competition in East and Southern Africa Port and Terminal Facilities at the U.S. Ports on Lake Huron and Connection Channels, 1943 Final Act Port Engineering Smart Port Management and Strategy Digest of Port Statistics Port Business Regulation and Finance in the Port Industry Digest of Port Statistics Port Geography and Hinterland Development Dynamics Port Security Management Ports in the Medieval European Atlantic Port and Terminal Charges at United States Ports Port and Terminal Facilities at Ports on the Delaware River Port and the Douro National Port Assessment, 1980-1990 Elements of Port Operation and Management A Practitioner's Guide to Effective Maritime and Port Security Maritime-Port Technology and Development Port Aransas European Port Cities in Transition A Port in Global Capitalism

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Port Cities and Global Legacies Dec 23 2021
Port cities have distinctive global dynamics,
with long histories of casual labour, large
migrant communities, and international trade
networks. This in-depth comparative study
examines contradictory global legacies across
themes of urban identity, waterfront work and
radicalism in key post-industrial port cities
worldwide.

Smart Port Management and Strategy Dec 11 2020 A smart port is defined as a port that uses technologies such as big data, AI, and IoT to manage transportation and logistics services. Smart Port Management and Strategy covers the design, operation and applications of a smart port to improve capacity and productivity. The book has been written by the author from an operations management perspective with the aim of providing technical

knowledge to readers on how to use technology for optimizing port performance. Key Features:
- Eight key topics relevant to smart port management - Focus on calculations and technical operations - Guidance on OCR, RFID and sensor technologies for gates - Includes information about port performance measurement - Includes access to Korean Port MIS - Covers automation equipment such as AGV, ARMGC, and remote control QC - Includes

port simulation, digitization strategies and financial analysis Smart Port Management and Strategy is the definitive resource for anyone, whether they are professionals in transportation services or students of civil engineering or operations management, who want to learn about smart ports and how they are managed.

Port and Harbour Engineering Mar 26 2022
After an introductory essay on the historiography of port engineering, the editor presents a collection of 17 engineering history articles (collected from Minutes of the Proceedings of the Institution for Civil Engineers, the Transactions of the Liverpool Engineering Society and other sources) whic Final Act Feb 10 2021

Port Development and Competition in East and Southern Africa Apr 14 2021 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 containerhandling 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-andhinterland 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.

A Practitioner's Guide to Effective
Maritime and Port Security Oct 28 2019 Sets
forth practices to ensure security and
fosterinternational trade Written with an
international perspective, this book analyzesthe
complex set of factors affecting the security of

port andmaritime operations, including shipping, politics, economics, crime, and terrorism. Author Michael Edgerton critiques currentapproaches to maritime and port security based on his more thantwenty-five years of experience in the field. He not only pointsout vulnerabilities in today's practices, but also provides a setof proven and tested recommendations that recognize the role andinterests of both government and the private sector in enhancing security while ensuring the flow of international trade. Readersmay be surprised to learn that, with greater efficiency, they canactually improve security while reducing the cost of security atthe same time. Using real-world case studies to support its analyses andrecommendations. A Practitioner's Guide to Effective Maritimeand Port Security: Reviews the core components of the international maritime operating environment Assesses the potential threats to ports in the maritimeenvironment Examines approaches to maritime port security in the UnitedStates, European Union, and around the world Presents principles for effective, riskbased maritime and portsecurity At the end of the book, two appendices provide a framework forconducting security risk assessments and threat assessments. There's also a third appendix to help organizations assess their "risk appetite." Recommended for students and professionals responsible for thesafety and security of ports and maritime trade, this book reframesport and maritime security as a kev

component of amultidisciplinary system in which secure and efficient trade is the objective. Port Economics Jun 28 2022 Port Economics is the study of the economic decisions (and their consequences) of the users and providers of port services. A port works as an "engine" for economic development. This book 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.

Port and Terminal Charges at United

States Ports Apr 02 2020

A Port in Global Capitalism Jun 24 2019 Through a study of the port district of Rio de Janeiro and its history, from its emergence as a major slave market to its modern-day incarnation as a hub of tourism, real estate and financial speculation, this book examines the different dimensions of the manner in which capitalism expands its global process of accumulation to incorporate spaces not yet integrated into chains of value production. As such, it sheds new light on the use of explicit non-economic violence on the part of capitalist expansion, in the form of colonial or imperial policies, plundering or legal forms of expropriation. As such, it will appeal to sociologists, historians, economists, legal scholars and political theorists with interests in capitalism and inequalities.

Port and the Douro Jan 30 2020 Richard Mayson's award-winning Port and the Douro, first published in 1999, has become a classic over the last 20 years. In this comprehensively updated fourth edition he reminds us why Port is a drink that continues to fascinate winelovers and win new fans. The last 45 years, since the end of the dictatorship in 1974, have seen vast transformations in the Port world, from labour-saving technology in field and cellar, to advances in sales reach, especially since Portugal's formal entry into the EU in 1986, and ongoing changes in the way the industry is managed and regulated. To begin with, Mayson provides a history of Port, from

the beginnings of viticulture in Roman times to the present day. The vineyards and their vines as well as the guintas where they are cultivated are thoroughly explored, followed by an explanation of Port production, both traditional and modern. A short introduction to Port types prepares the reader for a detailed assessment of vintages from 1960-2017, some of which have been tasted afresh for this edition; notable vintages (both exceptional and poor) dating back as far as 1844 are also included. The structure of the Port trade remains in flux, and so the chapter on the shippers reflects recent changes in fortune and ownership. Douro wine, which pre-dates its fortified cousin and has seen its revival accelerate over the last 20 years, receives an entire chapter to itself. Finally, for those wishing to visit the region, there are some ideas on what to do and where to stay. Peppered throughout with anecdotes, potted biographies of those who shaped the industry and insights into guirks of the trade, this extensive and engaging guide to Port is an essential book for any wine enthusiast's library. Port Security Management Jun 04 2020 Sea and freshwater ports are a key component of critical infrastructure and essential for maintaining global and domestic economies. In order to effectively secure a dynamic port facility operation, one must understand the business of maritime commerce. Following in the tradition of its bestselling predecessor, Port Security Management, Second Edit Towards a Better Port Industry Jun 16 2021

"Towards a Better Port Industry provides professionals in freight transport and maritime logistics, and specifically the port industry, as well as students in these fields with a better conceptual understanding of the port industry. It includes key insights and best practices for port management and development, and an overview of new trends and developments relevant for developing winning strategies. After an introduction, chapter 2 offers a new perspective on port governance, in which public interests, corporatisation, state-ownership, and shareholder policies take a central role. Chapter 3 explains how new trends and developments affect port development and argues that assuming 'business as usual' often leads to major port development mistakes. Chapter four deals with port development and discusses all major port development challenges, including granting concessions, developing a port vision, crafting stakeholder support, choosing port performance indicators and creating a port innovation system. The final chapter deals with port development strategies and includes themes such as strategies of port development companies, pricing and business development. This book will broaden professionals' conceptual understanding of the ports industry, and provide insights on the latest developments in this area. For students, this book provides an industry-focused and nontechnical 'essential reading' for gaining a deep understanding of the ports industry"--

Port Geography and Hinterland

**Development Dynamics** Jul 06 2020 This book illustrates and discusses the main characteristics of port-city development dynamics with a focus on the fast-growing citystates of the Middle East, which are emerging as key players in logistics and the global supply chain. Maritime ports and the cities hosting them have long fascinated scholars geographers, economists, architects, urban planners, sociologists etc. - as they become centres of exchange where different social and urban environments meet, at the intersection between land and sea. Given that the current body of literature on the topic is biased mainly concerning the Western world and East Asian region - with mono-disciplinary tendencies, this book outlines a theoretical basis from a wide range of literature, linking port-city studies, globalization theories and logistics, and adopts a multidisciplinary perspective. The main target audience of the book includes scholars and graduate students in urban studies, spatial planning, urban and regional economics, logistics, geography and transport geography with an interest in studying port geography and the port-city interface, port infrastructure development and port hinterland dynamics; it will also benefit policymakers and urban planners whose work involves these topics.

*Application of GIS Technologies in Port* Facilities and Operations Management May 28 2022 This report discusses the recent advances in GIS technologies for the management of

complex port and harbor infrastructure. National Port Assessment, 1980-1990 Dec 31 2019

Digest of Port Statistics Aug 07 2020 Digest of Port Statistics Nov 09 2020 Port Engineering Jan 12 2021 Ports are complex facilities serving as an interface between water transportation services and land transportation networks. This comprehensive book covers all aspects of the design and maintenance of port facilities, including port planning, seismic design guidelines, and breakwater design.

Port Economics, Management and Policy

Oct 21 2021 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.

Port and Terminal Facilities at the U.S. Ports on Lake Huron and Connection Channels, 1943 Mar 14 2021

**Port Management and Operations** Apr 26 2022 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 wideranging and up-to-date understanding required to thrive in today's highly competitive and evolving environment.

Maritime-Port Technology and Development Sep 27 2019 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

Port Management and Operations Jan 24 2022 Port Management and Operations your essential guide to port management in the twenty-first century. • Provides the reader with a complete understanding of total port activity • Enables managers working in specific areas of ports to see where they fit into the port's operation and commercial practice as a whole • Offers an analysis of the many types of ports

along with the common essential elements that enable them to function, including administration, management, economics and operations

Regulation and Finance in the Port Industry Sep 07 2020 This book addresses the latest organizational, regulatory, and governance issues of main port systems, linking them to the financial aspects that are currently in use regarding investments in the port industry. A general review of port management and operations is complimented by analysis of country specific systems and a look at how ports could develop in the future. This book aims to examine how different port organizational and regulatory contexts affect port investment practices and related financial tools. The book is of use to researchers and practitioners interested in maritime economics and transportation studies.

Port Aransas Aug 26 2019 Port Aransas, known colloquially as Port A, is on Mustang Island, one of the Texas barrier islands. This community grew from the seed of El Mar Rancho, the homestead an Englishman established for his family in 1855--the name Port Aransas was adopted in 1910. The evolution of Port A includes the guiding of sport fishermen to the hard-fighting tarpon fish, bouncing back from five major hurricanes, and the development of tourism that has made the town a nationally sought out destination. Despite all of the changes that have visited Port Aransas, the pace there still conforms to "island"

time." Indeed, a number of images in this book were selected for how they portray that unique quality of life.

Elements of Port Operation and Management Nov 29 2019 Since the publication of my books Elements of Shipping and more recently **Economics of Shipping Practice and** Management, both selling in over 130 countries, I have received numerous requests both from home and abroad for a companion volume on seaports. This book has been written to provide a practical, overall under standing of the elements of port operation and management of a competitive,~profitable port authority. It reflects the author's many years of experience in port and ship management, international trade and education. It deals in simple language with the role and function of seaports in a trading pattern, port investment criteria, port tariffs, free ports and free trade zones, port traffic control, budgetary control and marketing, port management structure and dock labour, computerization, cargo-handling equipment, the eco nomics of port design, the role of port cargo-handling organiza tions, the economics of international trade, finance of international trade, and many other aspects of this extensive subject. The import ance of complete professionalism in all areas of port practice as a means of providing the viable, high quality service required to sustain and expand international trade cannot be overemphasized. This book will help towards establishing that professionalism. The material

assembled here is intended not only for students preparing for seaport examinations, but also for persons employed in port authorities. In short, it is an aide-memoire to those engaged in the industry throughout the world and may be regarded as 'the porr executive's handbook'.

Port Cybersecurity Feb 22 2022 Port Cybersecurity: Securing Critical Information Infrastructures and Supply Chains examines a paradigm shift in the way ports assess cyber risks and vulnerabilities, as well as relevant risk management methodologies, by focusing on initiatives and efforts that attempt to deal with the risks and vulnerabilities of port Critical Information Infrastructures (CII) ecosystems. Modern commercial shipping ports are highly dependent on the operation of complex, dynamic ICT systems and ICT-based maritime supply chains, making these central points in the maritime supply chain vulnerable to cybersecurity threats. Identifies barriers and gaps in existing port and supply chain security standards, policies, legislation and regulatory frameworks Identifies port threat scenarios and analyzes cascading effects in their supply chains Analyzes risk assessment methodologies and tools, identifying their open problems when applied to a port's CIIs

Policing, Port Security and Crime Control Jul 30 2022 Ports are the vital hubs of the maritime transport industry, and crucial to the flow of global trade. The protection of this global supply chain from crime and terrorism is a

fundamental objective of port security, and is a landscape beset by new challenges and changes post 9/11. Building on multi-sited ethnographic fieldwork in two major European ports, Yarin Eski discusses how operational policing and security realities and identities are established, and examines how industrial commercialization has aggravated security issues. Policing, Port Security and Crime Control offers a compelling empirically balanced account of the attitudes and practices of port police officers and security officers, exploring the everyday realities and ambitions of these street-level professionals as they seek to (re)establish a meaningful occupational identity. In doing so, this book presents a criminological understanding of the way that security questions and procedures are integrated into the daily lives of those that protect the industrial port sites, where they themselves must interrupt the global supply chain in order to defend it. Exploring topics such as port security management, multi-agency policing, port theft, drug trafficking, human smuggling and terrorism, this book offers a major contribution to the growing literature on transnational crime and security and is one of the first to offer an ethnographic approach to port security. This book is interdisciplinary and will appeal to criminologists, sociologists, ethnographers and those engaged with policing and security studies, as well as professionals in the field of multi-agency policing, border control, security and governance of the port

and wider maritime industry.

Handbook of Port and Harbor Engineering Nov 21 2021 This indispensable handbook provides state-of-the-art information and common sense guidelines, covering the design, construction, modernization of port and harbor related marine structures. The design procedures and guidelines address the complex problems and illustrate factors that should be considered and included in appropriate design scenarios.

## **Business and Economics of Port**

Management Nov 02 2022 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.

Design of Marine Facilities Aug 19 2021

Ports in the Medieval European Atlantic
May 04 2020 Presents a wealth of original
research findings on how medieval ports
actually worked, providing new insights on
shipping, trade, port society and culture, and
systems of regional and international
integration.

**European Port Cities in Transition** Jul 26 2019 Seaports, as part of urban centers, play a major role in the cultural, social and economic life of the cities in which they are located, and through the links they provide to the outside world. Port-cities in Europe have faced significant change, first with the loss of heavy industry, emergence of Eastern European democracies, and the widening of the European Community (now European Union) during the second half of the twentieth century, and more recently through drivers to change including the global Sustainable Development Agenda and the European Union Circular Economy Agenda. This book examines the role of modern seaports in Europe and consider how port-cities are responding to these major drivers for change. It discusses the broad issues facing European Sea Ports, including port life cycles, spatial planning, and societal integration. May 2019 saw the 200th anniversary of the first

steam ship to cross the Atlantic between the US and England, and it is just over 60 years since the invention of the modern intermodal shipping container – both drivers of change in the maritime and ports industry. Increasing movements of people, e.g. through low cost cruises to port cities, can play a major role in changing the nature of such a city and impact on the lives of the people living there. This book brings together original research by both long-standing and younger scholars from multiple disciplines and builds upon the wider discourse about sea ports, port cities, and sustainability.

Port Infrastructure Finance May 16 2021

This book provides an expert analysis of alternative investments routes and the investment strategies available to the major port players, and is a much-needed guide to expanding the investor base for private debt funding of projects from loan providers to bond investors. Port infrastructure investments are vitally important to all ports throughout the world: without these investments, the competitive position of ports and of the dependent logistics sector will deteriorate. National/regional governments and the local port authorities are no longer a guaranteed source of sufficient financial input to meet the continuous port infrastructure investment needs of major ports. It is, therefore, increasingly crucial for ports to broaden their strategies and secure alternative streams of investment. This book provides expert insight into areas of port infrastructure finance across

the main regions of Europe, Asia, Africa and the USA. Topics include how to estimate future demand by way of forecasting; Public-Private Partnerships; corporatisation; the pricing mechanisms for syndicated loans; European port privatisation; finance strategies for ports in Asia, the USA and Africa; and a discussion of the investment strategies available to the major port players. Port Infrastructure Finance is an invaluable book for all parties involved in the port and maritime business, as well as investment companies, banks and other financial institutions involved in infrastructure investment.

Port Planning and Management Simulation Aug 31 2022 Port Planning and Management Simulation examines port planning simulation applications, showing how they supports better port decision-making. Using a clear organizational format based on actual port system structure and operation processes, the book provides practical and theoretical insights on port planning and management. The book describes the water, land, collecting and distributing components of the port system, focusing on management, development, and risk mitigation. It examines the key challenges based on discrete system simulation theory that is less affected by local or national regulations. It compares various simulation scenarios for optimal port operational strategy. It quantifies port emissions, analyzes the impact of different reduction strategies, and presents operational strategies for green port planning

developmentmand management. Port Planning and Management Simulation provides guidance for carrying out deep analysis in a complex and dynamic system, providing an integrated solution framework based on simulation techniques for improving efficiency and cost savings of the port system. Bridges the gaps between theory, practice and policy Comprehensive, practical and multidisciplinary content Case Studies

Ports and Networks Jul 18 2021 Written by leading experts in the field, this book offers an introduction to recent developments in port and hinterland strategies, operations and related specializations. The book begins with a broad overview of port definitions, concepts and the role of ports in global supply chains, and an examination of strategic topics such as port management, governance, performance, hinterlands and the port-city relationship. The second part of the book examines operational aspects of maritime, port and land networks. A range of topics are explored, such as liner networks, finance and business models, portindustrial clusters, container terminals, intermodality/synchromodality, handling and warehousing. The final section of the book provides insights into key issues of port development and management, from security, sustainability, innovation strategies, transition management and labour issues. Drawing on a variety of global case studies, theoretical insights are supplemented with real world and best practice examples, this book will be of

interest to advanced undergraduates, postgraduates, scholars and professionals interested in maritime studies, transport studies, economics and geography.

Planning and Design of Ports and Marine Terminals Oct 01 2022 Written by a collection of eminent figures in the field, this new edition continues to look at the rational planning for port facilities requirements (berths, storage and cargo handling equipment), organisations, management and operations with relation to planning and design of ports and marine terminals.

Port and Terminal Facilities at Ports on the Delaware River Mar 02 2020

Port Planning and Development Sep 19 2021 Focuses on the evaluation of seaport planning and development-- criteria, requirements and technology. Analyzes capacity needs in light of new technology and feasibility of future development, and examines the impact of new concepts on the ocean transport industry. Emphasizes the development of a methodology to forecast commodity flow shipping activity, and suggests practical model design for the analysis of different port uses and for optimizing port investment and operational decisions. Covers a range of other topics, including land/water interfaces, intermodal transportation, labor, port master planning, cost/benefit studies, physical developments of ports, and the increasing role of international, multi-national and governmental financing as they affect

policy and future development.

**Port Business** Oct 09 2020 Port Business is essential reading for all those with an interest in trade and transportation and the role of ports in the global supply chain. It discusses the various types of ports in existence, identifies the major ports per category, analyzes what the

key business drivers are, describes their governance, how they are managed, which trends influence them, and what kind of impact they have on supply chains. Dr. Jürgen Sorgenfrei uses his significant consulting and project development experience within the international ports, shipping, rail & logistics sector, and in global economics, trade,

analytics, and forecasting as well as in intermodal hinterland transport to provide this comprehensive overview of port management. The book is a combination of a strong background in principles and practical knowledge and is an indispensable resource for those interested in maritime economics. .