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**Handbook of Terminal Planning** - Jürgen W. Böse - 2011-02-26
Container Terminals (CT) operate as central nodes in worldwide hub-and-spoke networks and link ocean-going vessels with smaller feeder vessels as well as with inbound and outbound hinterland transportation systems using road, rail, or inland waterways. The volume of
considers comprehensive information about appreciably over the last five decades -- throughput figures of CT reached new records, frequently with double-digit annual growth rates. Stimulated by throughput requirements and stronger competition between terminals settled in the same region or serving a similar hinterland, respectively, cost efficiency and throughput capabilities become more and more important. Nowadays, both terminal capacity and costs have to be regarded as key indicators for CT competitiveness. In respect of this steady growth, this handbook focuses on planning activities being aimed at “order of magnitude improvements” in terminal performance and economic viability. On the one hand the book is intended to provide readership with technological and organizational CT basics for strategic planning. On the other hand this book offers methodical assistance for fundamental dimensioning of CT in terms of 'technique', 'organization' or 'man'. The former primarily container handling technologies representing the state of the art for present terminal operations, while the latter refers to methodological support comprising in particular quantitative solutions and modeling techniques for strategic terminal decisions as well as straightforward design guidelines. The handbook includes an introductory contribution which gives an overview of strategic planning problems at CT and introduces the contributions of the volume with regard to their relationship in this field. Moreover, each paper contains a section or paragraph that describes the impact of findings investigated by the author(s) for problem-solving in long-term planning of CT (as an application domain). The handbook intends to provide solutions and insights that are valuable for both practitioners in industry who need effective planning approaches to overcome problems and weaknesses in terminal design/development and researchers who would like to inform themselves
hinterland, respectively, cost efficiency and strategic terminal planning or be inspired by new ideas. That is to say, the handbook is addressed to terminal planners in practice as well as to students of maritime courses of study and (application oriented) researchers in the maritime field.

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Container Handling and Transport - H. K. Dally - 1983

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**Milwaukee Waterway Fill and Container Terminal Facility, Port of Tacoma** - - 1984

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**Elements of Shipping** - Alan Edward Branch - 2007-10-18

Since it was first published in 1964, Elements of Shipping has become established as a market leader. Now this new edition has been entirely updated and revised to take in the many changes that have occurred in the shipping industry in recent years and the increased emphasis placed on professionalism, qualified personnel and the new chapters on seaports and electronic data interchange, it explains in a lucid, professional manner the basic elements of shipping embracing operating, e-commerce/computerization (shipboard/trade), commercial, legal, economic, technical, managerial, logistics and financial considerations. It also reflects recent major trends including the impact of globalization, current good practice and future trends. All twenty-two chapters have been updated and over half of the content is new. Filling a gap for the discerning reader who wishes to have a complete understanding of all the elements of the global shipping scene together with the interface with seaports, international trade and logistics, it remains essential reading for shipping executives along with students and academics with an interest in the shipping industry.

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Branch's Elements of Shipping - Alan Edward Branch - 2014-10-03
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**Intermodal Freight Terminals** - Jason Monios - 2016-05-20
Much work has been done on port governance yet little has addressed intermodal terminal governance, despite the clear similarities. This
textbook on the planning and operation of framework for situating analysis of intermodal terminals throughout their life cycle. A version of the product life cycle theory is amended with governance theory to produce a framework covering each stage of the terminal’s life cycle, from the initial planning to the many decisions taken regarding the public/private split in funding mechanisms, ownership, selecting an operator, specifying KPIs to the operator, setting fees, earning profit, ensuring fair access to all rail service operators, and finally to reconcessioning the terminal to a new operator, managing the handover and maintaining the terminal throughout its life cycle. An institutional analysis of stakeholder relations, situated within a governance framework, illuminates these issues and enables not only conceptualisation and greater understanding of the geography of intermodal transport, but also decision-making and goal-setting by planners and policy makers. This book thus has three functions: first, as a intermodal terminals; second, as a presentation of recent empirical research on intermodal terminal governance; third, as a framework for future research in which the broad field of analysis of intermodal transport can be viewed through a single lens and used to inform geographers, policymakers and planners.

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Introduction to Transportation Analysis, - 2014-10-13

This comprehensive textbook/reference provides an in-depth overview of the key aspects of transportation analysis, with an emphasis on modeling real transportation systems and executing the models. Topics and features: presents comprehensive review questions at the end of each chapter, together with detailed case studies, useful links, references and suggestions for further reading; supplies a variety of teaching support materials at the book’s webpage on Springer.com, including a complete set of lecture slides; examines the classification of models used for multimodal transportation systems, and reviews the models and evaluation methods used in transportation planning; explains traffic assignment to road networks, and describes computer simulation integration platforms and their use in the transportation systems sector; provides an overview of transportation simulation tools, and discusses the critical issues
their use in the transportation systems sector; simulation models.

**Introduction to Transportation Analysis, Modeling and Simulation** - Dietmar P.F. Möller - 2014-10-13
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**Shoal Point Container Terminal, Texas City, Galveston County** - - 2002

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**Elements of Shipping** - Mr Alan Edward Branch - 2012-12-06
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Green Ports - Rickard Bergqvist - 2018-09-21
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Green Ports: Inland and Seaside Sustainable Transportation Strategies presents the first book to exclusively focus on this important topic that is usually only covered in brief chapters or journal articles that are too theoretical, fragmented or regionally-focused. This book comprehensively and systematically examines the key issues and best practice for understanding green ports and quantifying aspects of their environmental performance. This applied research book will help researchers formulate the needed research questions. Includes practical application tools and techniques for increasing sustainability throughout the entire transportation chain Provides an overall picture of green ports through a collection of expert specialists Examines how ports and surrounding areas are addressing the environmental impacts related to growth in the cruise business Presents a theoretical framework to identify best practices for planning and policymaking for the impacts
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**Operational Risk Management in Container Terminals** - Eric Su - 2015-06-19
This book provides an overview of the operation of container terminals and the associated risks with such operations. These risks are often ignored or not properly investigated by both scholars and practitioners. Operational Risk Management in Container Terminals explores and discusses the decision rationales and the consequences for these operational risks handling process, with in-depth investigation on the container terminals in the Asia-Pacific region. The topics covered include the history and development of the container terminals, the operation of the terminals and risk incurred, the risk-management theories and concepts, rationales and consequences of the risk decisions in the container terminal operations, common practices and recommendations on terminal operational risk handling.
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Port Operations, Planning and Logistics offers detailed analysis of world port systems by applying both theoretical and practical (managerial) approaches to port operations, management and policy. The author draws from a rare combination of extensive cross-management professional experience and established multidisciplinary academic expertise to provide a structured publication that cuts across different research fields; economics, engineering, operations, technology, management, strategy and policy. The book explores various port topics including ICT and technology applications, investment and financing, pricing and asset management, contracts regulations, safety security and environmental management. Each is supported with case studies and practical examples of the latest developments in the field.

Port Operations, Planning and Logistics - Khalid Bichou - 2014-04-16
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**Preserving and Protecting Freight Infrastructure and Routes**

TRB National Cooperative Freight Research Program (NCFRP) Report 16: Preserving and Protecting Freight Infrastructure and Routes provides guidance to decision makers involved in freight facility operations, freight transportation planning, and land use on how to avoid conflicting land uses or mitigate existing uses. The report provides information about freight transportation and its importance to everyday lives; illustrates the types of conflicts between freight and other land uses and their consequences; and provides tools and resources designed to help preserve facilities and corridors, including prevention or resolution of conflicts.
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**Port Planning and Management Simulation** - Wenyuan Wang - 2021-11-05
Port Planning and Management Simulation examines port planning simulation applications, showing how they support 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 transportation and its importance to everyday lives; illustrates the types of conflicts between freight and other land uses and their consequences; and provides tools and resources designed to help preserve facilities and corridors, including prevention or resolution of conflicts.

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Maritime Spatial Planning has gained increasing prominence as an integrated, common-sense approach to promoting sustainable maritime development. A growing number of countries are engaged in preparing and implementing maritime spatial plans; however, questions are emerging from the growing body of MSP experience. How can maritime spatial planning deal with a complex and dynamic environment such as the sea? How can MSP be embedded in multiple levels of governance across regional and national borders – and how far does the environment benefit from this new approach? This open access book is the first comprehensive overview of maritime spatial planning. Situated at the intersection between theory and practice, the volume draws together several strands of interdisciplinary research, reflecting on the history of MSP as well as the future. The authors and contributors examine MSP from disciplines as diverse as geography, urban planning, political science, natural science, sociology and education; reflecting the growing critical engagement with MSP in many academic fields. This innovative and pioneering volume will be of interest and value to students and scholars of maritime spatial planning, as well as planners and practitioners. Jacek Zaucha is Professor of Economics at Gdánsk University, Poland. He is long experienced in maritime spatial planning, and is currently leading the team preparing the first plan for Polish waters. Kira Gee is Research Associate at the Centre for Materials and Coastal Research (Helmholtz-Zentrum Geesthacht), Germany. She has been involved in MSP research and practice for over 20 years, and has participated in numerous national and transnational European MSP projects.

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**Choctaw Point Terminal Project, Mobile County** - - 2004

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The Most Recent Developments in Container Technologies and Their Impact on Ports - Themistoklis Manginas - 2013
This paper encapsulates the most recent developments in container technologies and evaluates their impact on ports, under the premise of development as innovation. Initially, comprehension of the standard operational procedure of the container terminal is attempted, followed by a categorization of the terminals components into tangible and intangible ones. The former include layout and equipment (quay cranes, horizontal transportation, stacking area), while the latter comprise of Terminal Operating Systems (TOS), aiming at optimization of ship planning, transportation and stacking planning. Regarding developments in containerships levels, they are concentrated on size evolution (mega containerships). However, they encounter berth and depth capacity challenges. In terms of vessels virtual improvements, available stowage planning software solutions are evaluated.

Trolleys and spreaders are the most technologically advanced parts of Ship-To-Shore (STS) gantry cranes. The latter are classified, using as benchmark the Panama Canal. Mega cranes are the most innovative STS crane models. Mentioning quay cranes intangible improvements, both Berth Allocation Problem (BAP) and Crane Allocation Problem (CAP) optimization are still in experimental stage. In practice, only Port Singapore Authority (PSA) has been able to use BAP optimization software. In terms of horizontal transportation, many developments (capacity, flexibility, structure, formation) have applied to Shuttle and Straddle Carriers (SCs), Automated Guided Vehicles (AGVs) and Multi-Trailer Systems (MTSs). Quayside and landside transport optimization aims to minimize delays and empty runs. TOS applications, involving those objectives, aim to optimize routing, scheduling and dispatching. Finally, the most common type of stacking
equipment is the reach stacker, which is ideal for medium-scale terminals, while Rubber Tired Gantry (RTG) and Rail Mounted Gantry (RMG) cranes are the most space-efficient stacking systems, well suited for large-scale terminals. The competitive advantage of Automated Stacking Cranes (ASCs) is their unique feature of rigidity. Furthermore, plenty of Yard Management Systems (YMSs) are commercially available to consolidate terminals storage and horizontal transportation equipment. This study gives an overview of the future port sector structure and describes the future types of equipment. It also underlines the equal importance of physical and virtual developments. Getting through the topic, we also observe the high level of concentration in the market of port equipment manufacturers.

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**Encyclopedia of Transportation** - Mark Garrett - 2014-08-13

Viewing transportation through the lens of current social, economic, and policy aspects, this four-volume reference work explores the topic of transportation across multiple disciplines within the social sciences and related areas, including geography, public policy, business, and economics. The book’s articles, all written by
questions as: What has been the legacy, not just economically but politically and socially as well, of President Eisenhower's modern interstate highway system in America? With that system and the infrastructure that supports it now in a state of decline and decay, what’s the best path for the future at a time of enormous fiscal constraints? Should California politicians plunge ahead with plans for a high-speed rail that every expert says—despite the allure—will go largely unused and will never pay back the massive investment while at this very moment potholes go unfilled all across the state? What path is best for emerging countries to keep pace with dramatic economic growth for their part? What are the social and financial costs of gridlock in our cities? Features: Approximately 675 signed articles authored by prominent scholars are arranged in A-to-Z fashion and conclude with Further Readings and cross references. A Chronology helps readers put individual events into historical context; a Reader’s Guide organizes entries by broad topical or thematic areas; a detailed index helps users quickly locate entries of most immediate interest; and a Resource Guide provides a list of journals, books, and associations and their websites. While articles were written to avoid jargon as much as possible, a Glossary provides quick definitions of technical terms. To ensure full, well-rounded coverage of the field, the General Editor with expertise in urban planning, public policy, and the environment worked alongside a Consulting Editor with a background in Civil Engineering. The index, Reader’s Guide, and cross references combine for thorough search-and-browse capabilities in the electronic edition. Available in both print and electronic formats, Encyclopedia of Transportation is an ideal reference for libraries and those who want to explore the issues that surround transportation in the United States and around the world.

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Transportation - 1968

Transportation - 1968
terminal operations impacts the reliability of vessels in meeting their liner schedules. According to Notteboom (2006) unexpected waiting times of vessels before berthing and unexpected low transshipment productivity at terminals are responsible for about 86% of liner schedule disturbances, see Fig. 1. Currently, many terminal operators counteract this situation by extending their transshipment capacities. They build new terminals or enlarge existing terminals and purchase new or upgrade existing equipment. Ilmer (2005) provides an overview of current projects for building terminal capacity in northern Europe.

1.1 Motivation and Scope of Research Container terminals in seaports constitute interfaces between sea and land transport of goods in global transport chains. These logistics facilities face an increasing demand of service capacity, as is reflected by a tremendous growth in the worldwide container transshipments per year. For example, the top 20 terminals in the world showed an average relative increase of 14% with respect to the number of handled container units from 2006 to 2007, see Port of Hamburg Marketing (2008). In spite of this development, competition is high among container terminals within the same region. A terminal’s customers, rst and foremost the vessel operators, expect a high level of service quality where reliability is one of the most important dimensions, see Wiegmans et al. (2001). Regarding the service of a vessel, reliability means to realize all transshipment operations within its projected service time interval. The reliability of
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**The Geography of Transport Systems** - Jean-Paul Rodrigue - 2013-07-18

Mobility is fundamental to economic and social activities such as commuting, manufacturing, or supplying energy. Each movement has an origin, a potential set of intermediate locations, a destination, and a nature which is linked with geographical attributes. Transport systems composed of infrastructures, modes and terminals are so embedded in the socio-economic life of individuals, institutions and corporations that they are often invisible to the consumer. This is paradoxical as the perceived invisibility of transportation is derived from its efficiency. Understanding how mobility is linked with geography is main the purpose of this book. The
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Third edition of The Geography of Transport Systems has been revised and updated to provide an overview of the spatial aspects of transportation. This text provides greater discussion of security, energy, green logistics, as well as new and updated case studies, a revised content structure, and new figures. Each chapter covers a specific conceptual dimension including networks, modes, terminals, freight transportation, urban transportation and environmental impacts. A final chapter contains core methodologies linked with transport geography such as accessibility, spatial interactions, graph theory and Geographic Information Systems for transportation (GIS-T). This book provides a comprehensive and accessible introduction to the field, with a broad overview of its concepts, methods, and areas of application. The accompanying website for this text contains a useful additional material, including digital maps, PowerPoint slides, databases, and links to further reading and websites. The website can be accessed at: http://people.hofstra.edu/geotrans

This text is an essential resource for undergraduates studying transport geography, as well as those interest in economic and urban geography, transport planning and engineering.


Placing special emphasis on the significant security issues associated with modern container international transport, this book provides in-depth exploration of both United States and European Union port and shipping policy, alongside that of wider international trade. The authors take an original and topical look at the security initiatives introduced by the USA and their impact in the EU. Based on original research by renowned experts in the field, this book provides vital insight for academics, government policy-makers and practitioners.

**Maritime Container Port Security** - Xufan
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Intelligent Systems: Models and Applications - Endre Pap - 2012-10-20
The theory and applications of intelligent systems is today an important field of research. This book is an up-to-date collection of seventeen chapters, written by recognized experts in the field. In an introductory mathematical foundations part an overview of generalizations of the integral inequalities for nonadditive integrals and a construction of the General Prioritized Fuzzy Satisfaction Problem is given. Then different aspects of robotics are presented, such as the differences between human beings and robots, the motion of bipedal humanoid robots, and an evaluation of different autonomous quadrotor flight controllers. Also Fuzzy Systems are presented by a model of basic planar imprecise geometric objects allowing various applications in image analysis, GIS, and robotics, as well as a type-2 fuzzy logic in a software library for developing perceptual computers, and a two-degree-of-freedom speed control solutions for a brushless Direct Current motor. The book also presents recent applications in medicine such as a Virtual Doctor System, methods for a face to face human machine interaction, and an emotion estimation, with applications for multiple diseases and the effect of the applied therapy. The last part of the book covers different applications in transportation, network monitoring, and localization of pedestrians in
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Logistics and Supply Chain Innovation - Henk Zijm - 2015-09-01
This contributed volume presents state-of-the-art advances in logistics theory in various fields as well as case studies. The book reports on a number of recently conducted studies in the Dinalog and the EffizienzCluster LogistikRuhr, thus bridging the gap between different perspectives of theoretical and applied research. A selection of theoretical topics, practical examples, case studies and project reports is
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**Operations** - Ning Zhao - 2020-02-20

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**Digital Management of Container Terminal Operations** - Ning Zhao - 2020-02-20

This book presents a comprehensive study on intelligent container terminals. Based on the development experience gained to date with container terminals, it analyzes information flows and their interactions with container terminals; illustrates the operation management process from information collection to resource planning and from equipment scheduling to field operation; highlights several dynamic decision-making problems concerning digital operation processes and container terminals; reveals the basis of the discrete logistics system; and discusses the future of intelligent container terminals.


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Computers in Railways X - John J. Allan - 2006

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airport passenger terminal planning and design: guidebook - landrum & brown - 2010

trb's airport cooperative research program (acrp) report 25, airport passenger terminal planning and design comprises a guidebook, spreadsheet models, and a user's guide in two volumes and a cd-rom intended to provide guidance in planning and developing airport passenger terminals and to assist users in analyzing common issues related to airport terminal planning and design. volume 1 of acrp report 25 explores the passenger terminal reference document, the important criteria and requirements needed to help address emerging trends and develop potential solutions for airport passenger terminals. volume 1 addresses the airside, terminal building, and landside components of the terminal complex. volume 2 of acrp report 25 consists of a cd-rom containing 11 spreadsheet models, which include practical learning exercises and several airport-specific sample data sets to assist users in determining appropriate model inputs for their situations, and a user's guide to assist the user in the correct use of each model. the models on the cd-rom include such aspects of terminal planning as design hour determination, gate demand, check-in and passenger and baggage screening, which require complex analyses to support planning decisions. the cd-rom is also available for download from trb's website as an iso image.

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Towards Green Marine Technology and Transport - Carlos Guedes Soares - 2015-09-04
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Service Science and Logistics Informatics: Innovative Perspectives - Luo, ZongWei - 2010-03-31
"This book provides both business and IT professionals a reference for practices and guidelines to service innovation in logistics and supply chain management"--Provided by publisher.

Proposed Bayport Container Terminal, Pasadena, Harris County - - 2003
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In this report, the authors use microeconomics economic break-even analysis and stakeholder workshop input to describe the economic private and social cost and benefits likely to result from implementing an extended gate hours of operation for marine terminals regime upon
economic break-even analysis and stakeholder mobility over time. The concept of throughput velocity is used as an indicator of terminal efficiency in which temporal dimension of dwell time (the average time spent by a container on a terminal) is combined with spatial dimension of throughput per acre. This then allows for the accurate comparison of terminals independent of size or geographic and operating conditions. Based on the obtained data, the authors suggest implementing a detailed time-phased throughput redistribution strategy. They also recommend using economic cost benefit analysis queuing and game theory, and artificial intelligence-based simulation and modeling as a method for benchmarking the performance of terminals in increasing throughput velocity.


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The Productive Efficiency of Container Terminals - Dong-Wook Song - 2017-07-05

This work applies the theory and techniques of economic efficiency measurement to the realistic context of the ports industry. The objective is to assess the practical impact of port privatization policies upon the economic performance of the sector. Specifically, this volume presents Korea’s port and terminal development plans and systematically analyses not only the process and results of privatization, but also the claims of its proponents that it leads directly to improved efficiency. The Korean experience is given global relevance by applying the same approach to Britain’s main container ports and terminals which, of course, are at a more advanced stage in the privatization process. This work constitutes a unique contribution to the literature relating to shipping and ports, econometrics and the Korean economy and will be of primary interest to port authorities and practitioners, as well as to students of economics and/or the shipping industry.

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Next Generation Supply Chains - Wolfgang Kersten - 2014-09-24
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Handbook of Ocean Container Transport Logistics - Chung-Yee Lee - 2014-12-13
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 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 corridors, as well as competition and cooperation in maritime logistics operations. The eighteen chapters of the book all highlight the immediate effect of ocean transport logistics on global supply chain.

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