

Handbook Of Ocean Container Transport Logistics Making Global Supply Chains Effective

International Series In Operations Research Management Science

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Handbook of Shipping Process: A User's Guide to Shipping - Akhilesh Munjal

The handbook has been written to provide an insight into the Shipping Process, not only to those seeking a career with Exporters, Importers, Shipping Lines, NVOCC's, Freight Forwarders, and Custom House Agents, but also to help those already employed at every level to refresh their skills and enhance their career. This handbook is intended to help you to succeed.

A Handbook of Transport Economics - André de Palma 2011-01-01

'This Handbook is a stellar compilation of up-to-date knowledge about the important topics in transport economics. Authors include the very best in the field, and they cover the most important topics for today's research and policy applications. Individual chapters contain sound, readable, well referenced explanations of each topic's history and current status. I cannot think of a better place to start for anyone wanting to become current in the field or in any of its parts.' - Kenneth Small, University of California-Irvine, US Bringing together insights and perspectives from close to 70 of the world's leading experts in the field, this timely Handbook provides an up-to-date guide to the most recent and state-of-the-art advances in transport economics. The comprehensive coverage includes topics such as the relationship between transport and the spatial economy, recent advances in travel demand analysis, the external costs of transport, investment appraisal, pricing, equity issues, competition and regulation, the role of public-private partnerships and the development of policy in local bus services, rail, air and maritime transport. This Handbook is designed both for use on postgraduate and advanced undergraduate courses and as a reference for anyone working in the field. It also complements the textbook Principles of Transport Economics.

Shipping and Logistics Management - Yuen Ha (Venus) Lun 2010-04-07

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. The authors discuss 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.

Sustainable Shipping - Harilaos N. Psaraftis 2019-02-11

International shipping is currently at a crossroads. The decision of the International Maritime Organization (IMO) in April 2018 to adopt an Initial Strategy so as to achieve by 2050 a reduction of at least 50% in maritime greenhouse gas (GHG) emissions vis-à-vis 2008 levels epitomizes the last among a series of recent developments as regards sustainable shipping. It also sets the scene on what may happen in the future. Even though many experts and industry circles believe that the IMO decision is in line with the COP21

climate change agreement in Paris in 2015, others disagree, either on the ground that the target is not ambitious enough, or on the ground that no clear pathway to reach the target is currently visible. This book takes a cross-disciplinary view of the various dimensions of the maritime transportation sustainability problem. "Cross-disciplinary" means that a variety of angles are used to examine the book topics, and these mainly include the technological angle, the economics angle, the logistics angle, and the environmental angle. The book reviews models that can be used to evaluate decisions, policy alternatives and trade-offs. For sustainable shipping, a spectrum of technical, logistics-based and market based measures are being contemplated. All may have important side-effects as regards the economics and logistics of the maritime supply chain, including ports and hinterland connections. The objective to attain an acceptable environmental performance, while at the same time respecting traditional economic performance criteria so that shipping remains viable, is and is likely to be a central goal for both industry and policy-makers in the years ahead. At the same time, policy fragmentation is likely to create distortions of competition and sub-optimal solutions. This book attempts to address these issues and identify better solutions.

/divSustainable Shipping: A Cross-Disciplinary View includes chapters that cover many relevant topics. These include a general view of maritime transport sustainability, green ship technologies, information and communication technologies (ICTs) for sustainable shipping, green tramp ship routing and scheduling, green liner network design and speed optimization. Market based measures, oil pollution, ship recycling, sulphur emissions, ballast water management, alternative fuels and green ports are also covered. The book concludes by discussing prospects for the future, with a focus on the IMO Initial Strategy. "This book contains a unique wealth of information on sustainable shipping. The knowledge it provides is rigorous, complete, and well supported by statistics, technical reports, and scientific references. The treatment of the various topics is not only informative but also analytical and critical." —Gilbert Laporte, Maritime Economics & Logistics (12 May, 2020)

Advances in E-Business Engineering for Ubiquitous Computing - Kuo-Ming Chao 2019-11-27

This book presents the latest trends in scientific methods and enabling technologies to advance e-business. It consists of selected high-quality papers from the 16th International Conference on E-Business Engineering (ICEBE 2019), held in Shanghai, China, on 11-13 October 2019. ICEBE is a leading international forum for researchers, engineers, and business specialists to exchange cutting-edge ideas, findings, and experiences in the field of e-business. The book covers a range of topics, including agents for e-business, big data for e-business, Internet of Things, mobile and autonomous computing, security/privacy/trust, service-oriented and cloud computing, software engineering, blockchain, and industry applications.

Logistics Operations and Management - Reza Farahani 2011-05-25

This book provides a comprehensive overview of how to strategically manage the movement and storage of products or materials from any point in the manufacturing process to customer fulfillment. Topics covered include important tools for strategic decision making, transport, packaging, warehousing, retailing,

customer services and future trends. An introduction to logistics Provides practical applications Discusses trends and new strategies in major parts of the logistic industry

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 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 corridors, as well as competition and co-operation in maritime logistics operations. The eighteen chapters of the book all highlight the immediate effect of ocean transport logistics on global supply chain.

Logistical Asia - Brett Neilson 2018-05-01

This book explores how the management science of logistics changes working lives and contributes to the making of world regions. With a focus on the port of Kolkata and changing patterns of Asian regionalism, the volume examines how logistics entwine with political power, historical forces, labour movements, and new technologies. The contributors ask how logistical practices reconfigure both Asia's relation to the world and its internal logic of transport and communication. Building on critical perspectives that understand logistics as a political technology for producing and organizing space and power, *Logistical Asia* tracks how digital technologies and material infrastructure combine to remake urban and regional territories and produce new forms of governance and subjectivity.

Green Transportation Logistics - Harilaos N. Psaraftis 2015-07-13

This book examines the state of the art in green transportation logistics from the perspective of balancing environmental performance in the transportation supply chain while also satisfying traditional economic performance criteria. Part of the book is drawn from the recently completed European Union project Super Green, a three-year project intended to promote the development of European freight corridors in an environmentally friendly manner. Additional chapters cover both the methodological base and the application context of green transportation logistics. Individual chapters look at the policy context; the basics of transportation emissions; Green Corridors basics; the concept of TEN-T (Trans-European Network); Benchmarking of green corridors; the potential role of ICT (Information and Communication Technologies); Green vehicle routing; Reducing maritime CO2 emissions via market based measures and speed and route optimization; Sulphur emissions; Lifecycle emissions; Green rail transportation; Green air transportation; Green inland navigation and possible areas for further research. Throughout, the book pursues the goal of "win-win" solutions and analyzes the phenomenon of "push-down, pop-up", wherein a change in one aspect of a problem can cause another troubling aspect to arise. For example, speed reduction in maritime transportation can reduce emissions and fuel costs, but could require additional ships and could raise in-transit inventory costs. Or, regulations to reduce sulphur emissions may ultimately increase CO2 elsewhere in the supply chain. The book takes stock at the various tradeoffs that are at stake in the goal of greening the supply chain and looks at where balances can be struck.

Interorganizational Informationssysteme in der maritimen Transportkette - Holger Pontow 2017-02-08

Holger Pontow demonstriert, dass interorganisationale Informationssysteme in der arbeitsteiligen maritimen Transportkette zahlreiche Nutzenpotentiale versprechen. Um diese im Vorfeld von Investitionsentscheidungen qualitativ und quantitativ beurteilen zu können, nutzt er im Kern seiner Untersuchung Methoden und Werkzeuge aus den Bereichen des Geschäftsprozessmanagements (speziell Geschäftsprozessmodellierung mittels BPMN) und der Entscheidungstheorie. Es zeigt sich - vor allem auf Basis des vermittelten organisationsübergreifenden Geschäftsprozessverständnisses - dass neben Organisationen, die den Transport und Umschlag realisieren, insbesondere Verladere geeignete Systeme zur

Kommunikation verwenden sollten, um die theoretisch möglichen Nutzenpotentiale in der Praxis zu realisieren.

The Handbook of Maritime Economics and Business - Costas Grammenos 2013-07-04

This book is the founding title in the Grammenos 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

Maritime Logistics - Dong-Wook Song 2012-04-03

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 port 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.

The Routledge Handbook of Maritime Management - Photis M. Panayides 2019-04-30

This handbook provides a wide-ranging, coherent, and systematic analysis of maritime management, policy, and strategy development. It undertakes a comprehensive examination of the fields of management and policy-making in shipping by bringing together chapters on key topics of seminal scientific and practical importance. Within 21 original chapters, authoritative experts describe and analyze concepts at the cutting edge of knowledge in shipping. Themes include maritime management and policy, ship finance, port and maritime economics, and maritime logistics. A study examines the determinants of ship management fees. Aspects of corporate governance in the shipping industry are reviewed and there is a critical review of the ship investment literature. Other topics featured include the organization and management of tanker and dry bulk shipping companies, environmental management in shipping with reference to energy-efficient ship operation, a study of the BIMCO Shipping KPI standard, utilizing the Bunker Adjustment Factor as a strategic decision-making instrument, and slow steaming in the maritime industry. All chapters are written to provide implications for further advancement in professional practice and research. The *Routledge Handbook of Maritime Management* will be of great interest to relevant students, researchers, academics, and professionals alike. It provides abundant opportunities to guide further research in the areas covered but will also initiate and inspire effective maritime management.

Logistics Transportation Systems - MD Sarder 2020-10-17

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

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 transcontinental container flows has gained 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 considers comprehensive information about 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 about the state of the art in methodology of 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.

Handbook of International Trade - Michael Z Brooke 2016-01-14

Designed for the businessman, this is a handbook of international trade.

Handbook of Container Shipping Management - Christel Heideloff 2006

Maritime Logistics - Dong-Wook Song 2015-04-03

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. At the cutting edge in its assessment of the industry, Maritime Logistics covers the whole scope of maritime logistics and examines latest logistical developments within the port and shipping industry. With a range of new international contributors, this new edition has been thoroughly revised and updated. There are new chapters on port centric logistics, hinterland logistics and global supply chains, maritime transport and logistics as a trade facilitator, and future trends and developments. Written by a team of international experts with over fifty years' experience in the field, Maritime Logistics provides a truly global perspective. The book covers everything that students of logistics, as well as those working within the industry, need to know about maritime logistics, including shipping lines, containers, tankers, dry bulk, port-centric logistics, and much more.

Global Logistics - James H. Bookbinder 2012-06-30

This book offers complete coverage of logistics, examining modes, general issues, logistics in specific regions, free-trade zones, innovations in international logistics, case studies and a look at the future.

Port Strategy for Sustainable Development - Elvira Haezendonck 2021-03-23

Today, most large port hubs include the circular economy transformation challenge, together with smart

digitalization and Internet of Things (IoT), in their strategic priorities. However, many ports do not seem to have progressed beyond incremental, small-scale sustainable innovations or the support of rather fragmented sustainability initiatives. The challenges are complex, since ports do not only have to reconsider their own core activities but also their role in the supply chain of shippers, to lift themselves out of the linear lock-in. Opportunities are also created, and port authorities and businesses need to embrace circular learning and turn these projects into sustainable business models. This strategic change or refocus requires new insights into innovative governance and business frameworks, the link between strategy and commercially viable business models, systems innovation, intensified stakeholder collaboration and co-creation, altered traffic segments and hinterland focus, amongst others. These Special Issue articles address current CE transition concerns salient to port strategists and managers, such as first strategic changes towards circular ports, building awareness on the importance of sustainability data and available space, and how port authorities can develop circular business models.

International Handbook of Maritime Economics - Kevin Cullinane 2011-01-01

This timely and comprehensive new Handbook brings together an unrivalled group of distinguished scholars and practitioners to provide in-depth analysis and a contemporary perspective on a wide-ranging array of topics in maritime economics. Inherently global in nature, the economics of the maritime sector has proved pivotal in facilitating globalization and international trade. This Handbook offers a unique and indispensable source of reference and information for researchers, students and practitioners interested in the relationship between these developments and maritime markets.

Freight Forwarder's Intermediary Role in Multimodal Transport Chains - Joachim Schramm 2012-01-05

In this book, the business of international freight forwarding is examined from both a theoretical and empirical point of view with a special emphasis on multimodal transport chains, including sea or air transport operations. In such contexts, the freight forwarder is always considered "The Architect of Transport", but this intermediary role seems to be largely neglected in research to date. Therefore, relevant concepts from economic theory and economic sociology are employed to produce both an intermediary and a network perspective of freight forwarding in order to provide a better understanding of this kind of transportation business. Furthermore, its intermediary role in such inherent network structures is explored by mapping relationship patterns in a stylized model framework applied to a questionnaire-based sample collected among freight forwarders engaged in such multimodal transport chains in Germany (especially from Hamburg, Bremen and Bremerhaven) as well as in Austria in 2003.

Handbook of Ocean Container Transport Logistics - Chung-Yee Lee 2016-09-24

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 corridors, as well as competition and co-operation in maritime logistics operations. The eighteen chapters of the book all highlight the immediate effect of ocean transport logistics on global supply chain.

Computational Logistics - Francesco Corman 2015-09-18

This book constitutes the refereed proceedings of the 6th International Conference on Computational Logistics, ICCL 2015, held in Delft, The Netherlands, in September 2015. The 50 papers presented in this volume were carefully reviewed and selected for inclusion in the book. They are organized in topical sections entitled: transport over ground, transport over water, international coordination within a system, external coordination among systems.

[The Routledge Companion to Production and Operations Management](#) - Martin K. Starr 2017-03-27

This remarkable volume highlights the importance of Production and Operations Management (POM) as a field of study and research contributing to substantial business and social growth. The editors emphasize how POM works with a range of systems—agriculture, disaster management, e-commerce, healthcare, hospitality, military systems, not-for-profit, retail, sports, sustainability, telecommunications, and transport—and how it contributes to the growth of each. Martin K. Starr and Sushil K. Gupta gather an international team of experts to provide researchers and students with a panoramic vision of the field. Divided into eight parts, the book presents the history of POM, and establishes the foundation upon which POM has been built while also revisiting and revitalizing topics that have long been essential. It examines the significance of processes and projects to the fundamental growth of the POM field. Critical emerging themes and new research are examined with open minds and this is followed by opportunities to interface with other business functions. Finally, the next era is discussed in ways that combine practical skill with philosophy in its analysis of POM, including traditional and nontraditional applications, before concluding with the editors' thoughts on the future of the discipline. Students of POM will find this a comprehensive, definitive resource on the state of the discipline and its future directions.

Container Logistics and Maritime Transport - Dong-Ping Song 2021-05-05

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

Modelling Empty Container Repositioning Logistics - Dong-Ping Song

The book takes the inventory control perspective to tackle empty container repositioning logistics problems in regional transportation systems by explicitly considering the features such as demand imbalance over space, dynamic operations over time, uncertainty in demand and transport, and container leasing phenomenon. The book has the following unique features. First, it provides a discussion of broad empty equipment logistics including empty freight vehicle redistribution, empty passenger vehicle redistribution, empty bike repositioning, empty container chassis repositioning, and empty container repositioning (ECR) problems. The similarity and unique characteristics of ECR compared to other empty equipment repositioning problems are explained. Second, we adopt the stochastic dynamic programming approach to tackle the ECR problems, which offers an algorithmic strategy to characterize the optimal policy and captures the sequential decision-making phenomenon in anticipation of uncertainties over time and space. Third, we are able to establish closed-form solutions and structural properties of the optimal ECR policies in relatively simple transportation systems. Such properties can then be utilized to construct threshold-type ECR policies for more complicated transportation systems. In fact, the threshold-type ECR policies resemble the well-known (s, S) and (s, Q) policies in inventory control theory. These policies have the advantages of being decentralized, easy to understand, easy to operate, quick response to random events, and minimal on-line computation and communication. Fourth, several sophisticated optimization techniques such as approximate dynamic programming, simulation-based meta-heuristics, stochastic approximation,

perturbation analysis, and ordinal optimization methods are introduced to solve the complex stochastic optimization problems. The book will be of interest to researchers and professionals in logistics, transport, supply chain, and operations research.

The Handbook of Technology Management, Supply Chain Management, Marketing and Advertising, and Global Management - Hossein Bidgoli 2010-01-12

The discipline of technology management focuses on the scientific, engineering, and management issues related to the commercial introduction of new technologies. Although more than thirty U.S. universities offer PhD programs in the subject, there has never been a single comprehensive resource dedicated to technology management. "The Handbook of Technology Management" fills that gap with coverage of all the core topics and applications in the field. Edited by the renowned Doctor Hossein Bidgoli, the three volumes here include all the basics for students, educators, and practitioners

The Handbook of Logistics and Distribution Management - Alan Rushton 2000

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.

Review of Maritime Transport 2020 - United Nations 2021-01-06

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

The Air Logistics Handbook - Michael Sales 2013-07-18

Why study air cargo? Consider that this sector moves only 2% of the global volume of goods but a huge 35% by value, reserved for the most costly and time-sensitive products. Air logistics is an economically and strategically important industry, and a rich source of opportunity for graduating students and logistics or SCM professionals. Get a head start in this vital part of your business with this comprehensive and lively overview. It's the only book available to focus on the role of air freight in the global supply chain. It includes a brief history; the functions of the various players in the industry (forwarders, airlines, airports, government agencies); regulations and restrictions; terrorism management. It details the benefits of air transport, and weighs them against its considerable environmental impact to explore the question of its sustainability. Finally, it considers the future of the industry in a dynamic and increasingly globalised world. Enriched throughout with real life case studies and contributions from global industry experts, this is a ground-level introduction with a practical approach: all the student or professional will need to get ahead in air logistics!

Network Design with Applications to Transportation and Logistics - Teodor Gabriel Crainic 2021-07-16

This book explores the methodological and application developments of network design in transportation and logistics. It identifies trends, challenges and research perspectives in network design for these areas. Network design is a major class of problems in operations research where network flow, combinatorial and mixed integer optimization meet. The analysis and planning of transportation and logistics systems continues to be one of the most important application areas of operations research. Networks provide the natural way of depicting such systems, so the optimal design and operation of networks is the main methodological area of operations research that is used for the analysis and planning of these systems. This book defines the current state of the art in the general area of network design, and then turns to its applications to transportation and logistics. New research challenges are addressed. Network Design with Applications to Transportation and Logistics is divided into three parts. Part I examines basic design problems including fixed-cost network design and parallel algorithms. After addressing the basics, Part II focuses on more advanced models. Chapters cover topics such as multi-facility network design, flow-constrained network design, and robust network design. Finally Part III is dedicated entirely to the potential application areas for network design. These areas range from rail networks, to city logistics, to energy transport. All of the chapters are written by leading researchers in the field, which should appeal to analysts and planners.

Maritime Economics - Alan Branch 2013-04-15

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.

Analytical and Stochastic Modelling Techniques and Applications - Sabine Wittevröngel 2016-08-03

This book constitutes the refereed proceedings of the 23rd International Conference on Analytical and Stochastic Modelling Techniques and Applications, ASMTA 2016, held in Cardiff, UK, in August 2016. The 21 full papers presented in this book were carefully reviewed and selected from 30 submissions. The papers discuss the latest developments in analytical, numerical and simulation algorithms for stochastic systems, including Markov processes, queueing networks, stochastic Petri nets, process algebras, game theory, etc.

Simulation in Produktion und Logistik 2017 - Wenzel, Sigrid 2017-01-01

Schlagworte: Simulation, Produktion, Logistik, Industrie 4.0, Modellbildung, Digitale Fabrik, Fabrikplanung, Fabrikbetrieb

A Practical Guide to Shipping and Freight Forwarding - S. Varun 2019-12-19

This book designed to give individuals in-depth knowledge of the shipping and freight forwarding industry along with an insight into the various job roles within the vast global industry of moving cargo and containers for import and export. The book is written for anyone who works in the shipping industry or aspires to join the industry and aims to provide them an overview of the various job roles and prospects. When handling shipments, various problems and challenges can arise. This book addresses such problems and provides solutions to overcome them. Freshers, as well as experienced professionals, will gain knowledge on how to efficiently plan and organize shipments on behalf of shippers and importers. You will find many practical examples of situations that can occur while shipping goods and a step by step guide to handling them.

Handbook of Container Shipping Management - 2008

Handbook of Terminal Planning - Jürgen W. Böse 2020-09-14

Seaport Container Terminals (SCT) 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 transcontinental container flows has gained enormously over the last five decades frequently leading to double-digit annual growth rates for the SCT. The 2nd edition of the Handbook of Terminal Planning also deals with problems being induced by questions of terminal development on a long-term basis (strategic level). Facing present and upcoming challenges for SCT operation—such as more and more mega vessels, extremely high hinterland peaks, higher environmental standards, less public acceptance and the stronger competition between terminals serving the same hinterland—the focus of the book is on successful approaches and solutions primarily addressing the planning of terminal structures. Nevertheless, operational aspects are considered, as well as how they effectively contribute to problem solving on the strategic level.

Dynamic Shipping and Port Development in the Globalized Economy - Paul Yae-Woo Lee 2016-04-29

This two volume book presents an in-depth analysis of many of the most important issues facing today's shipping and port sectors. Volume 1 of Dynamic Shipping and Port Development in the Globalized Economy focuses on the application of theory to practice in Maritime Logistics.

Proceedings of the 25th Pan-American Conference of Naval Engineering—COPINAVAL - Adán Vega Sáenz 2018-07-04

This book presents selected contributions to the Pan-American Congress of Naval Engineering, Maritime Transport and Port Engineering (COPINAVAL), which is in its twenty-fifth edition and has become a reference event for the global maritime and port sector, attracting more and more participants from different countries. The 2017 congress was held in Panama City, Panama, bringing together a select group of scientists, entrepreneurs, academics and professionals to discuss the latest technological advances in the maritime industry.