

Handbook Of Global Logistics Transportation In International Supply Chains International Series In Operations Research Management Science

Global LogisticsSpringer Science & Business Media

The supply chain is a complex system of numerous, integrated stakeholders. These stakeholders are responsible for the transportation, storage, documentation, and handling of material goods and cargo. Each entity has its own unique relationship with and role within the chain—as well as its own unique security requirements. The challenge of trying to secure the supply chain at every level is both a domestic and global concern. In this global economy, companies must be able to integrate security into supply chain logistics to protect their employees, assets, and clients from incidents of theft and other damaging events. *Supply Chain Security: A Comprehensive Approach* provides security professionals the tools necessary to ensure supply chain security. The book demonstrates how to establish and enforce security policies and protocols, including rapid responses that must be deployed in the event of a theft or security incident. Most importantly, it enables professionals to integrate business

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practices into the planning, development, and successful operation of supply chains to ensure security and protect assets. Drawn from the experience of a recognized leader in domestic and international supply chain logistics, trade, and transportation security, the book illustrates through a series of case studies how security professionals can institute sound security practices. By demonstrating to their stakeholders and potential customers that they provide a secure environment for materials, products, goods, and cargo, companies can increase their customer base and improve their bottom line.

In this era of globalization, entrepreneurship and its implications on international trade and supply chain management are becoming more critical. In today's change-oriented and complex business environment, both entrepreneurs and managers need to keep up with the latest developments around them. With the help of globalization, it is getting more attractive for entrepreneurs to generate innovative ideas to run business both nationally and internationally. Competitive advantages and the key for sustainable growth for globally founded institutions lies behind effective supply chain management originating from a single idea about establishing a company and the process to the end goal of reaching consumers. This focus on entrepreneurship, business, and supply chain comes at a time when rapid technological advances are continually being made. The

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Handbook of Research on Recent Perspectives on Management, International Trade, and Logistics reveals the latest data based on research on the issues of entrepreneurship, innovation, contemporary management techniques, and global supply chain management. Chapters include topics such as the effective management of the supply chain, supply chain modeling, e-business solutions, digitalizing the supply chain process, e-business applications, and more. This book is ideal for managers, executives, supply chain specialists, entrepreneurs, business professionals, researchers, academicians, and students interested in the latest findings in international trade, management, logistics, and business. Global Logistics Strategies offers a step-by-step guide to global logistics. Covering the breadth of logistics, this highly accessible text covers everything you need to know and is illustrated by engaging case studies of market leaders such as DHL. In this comprehensive book, John Manners-Bell provides an in-depth definition, description and exploration of: freight forwarding, contract logistics, shipping, road freight, air cargo and express. The book also examines major sectors, including Automotive, Chemical, Pharmaceutical, Retail, Consumer, and High Tech. Global Logistics Strategies offers a detailed examination of key topics, including: how the logistics industry has developed, how it is influenced by macro-economic factors and demand-side trends, what

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the risks are to the industry, and how it will develop over the coming years. It examines important trends and developments that are shaping the industry, including 3D printing, megacities, and post-harvest food losses. Includes online resources, including chapter summaries and figures.

Delivering comprehensive coverage of current domestic and global trends, **TRANSPORTATION: A SUPPLY CHAIN PERSPECTIVE, 8E** equips readers with a solid understanding of what is arguably the most critical?and complex?component of global supply chains. Taking a managerial approach, the text explains the fundamental role and importance of transportation in companies and in society, as well as the complex environment in which transportation service is provided today. It provides a framework and foundation for the role of transportation from a micro and macro perspective in supply chains. It also offers an overview of the operating and service characteristics, cost structure, and current challenges faced by current providers of transportation. In addition, the authors spotlight a variety of critical transportation management issues, providing insightful discussions of the strategic activities and challenges involved in the movement of goods through the supply chain. Completely up to date, the Eighth Edition features new readings, cases, and examples. It emphasizes global topics throughout, includes new coverage of hard and soft technology, and offers

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expanded discussions of fuel, energy, managerial, economic, and environmental issues. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

City logistics is one of the most popular fields of transportation sciences, dealing with sustainably supplying cities and at the same time reducing congestion and pollution related to goods transport in urban areas. Recently, humanitarian, emergency, and crises logistics has been a subject of increasing interest, often seen from an international viewpoint. However, some of the recent natural crises have shown the importance of resilience and reliability of the current urban logistics systems. The Handbook of Research on Urban and Humanitarian Logistics is a critical scholarly publication that addresses urban logistics and resilience, sustainable urban logistics, humanitarian logistics in urban areas both for crisis or long-term, and planning for resilient urban development. Featuring a broad range of topics that discuss the new and future trends in urban logistics and resilient cities, this publication is ideal for public planners; urban planners; company managers in logistics and transport; consulting agencies; regional, national, and international institutions and organizations; researchers; academicians; and students.

Introduction to Global Logistics offers a step-by-step guide to global logistics.

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Covering the breadth of logistics, this highly accessible text is illustrated by engaging case studies of market leaders. In this comprehensive second instalment of Global Logistics Strategies, John Manners-Bell provides an in-depth definition, description and exploration of the strategic principles and practices in transportation modes and supply chain verticals, including: freight forwarding, contract logistics, shipping, road freight, air cargo and express. The book also examines major sectors, including automotive, chemical, pharmaceutical, retail, consumer, and high tech. Introduction to Global Logistics offers a detailed examination of key topics, including: how the logistics industry has developed, how it is influenced by macro-economic factors and demand-side trends, what the risks are to the industry, and how it will develop over the coming years. It examines important trends and developments that are shaping the industry, including 3D printing, megacities, and post-harvest food losses. Online resources available: Chapter-supporting lecturer slides.

Encompassing China, Japan, South Korea and Southeast Asia, extending to Australasia and connecting with South Asia, the Asian-Pacific Rim forms the worlds most dynamic economic region. Comprehending the regions logistical structure and its institutio

The tactical organization of resources is a vital component to any industry in

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modern society. Effectively managing the flow of materials through various networks ensures that the requirements of customers are met. Sustainable Logistics and Strategic Transportation Planning is a pivotal reference source for the latest research on the management of logistics through the lens of sustainability, as well as for emerging procedures that are particularly critical to the transportation sector. Highlighting international perspectives, conceptual frameworks, and targeted investigations, this book is ideally designed for policy makers, professionals, researchers, and upper-level students interested in logistics and transport systems.

"Professor Burns has captured the essence of transportation security, one of today's most pressing concerns. As the rate of globalization and world trade increases, security and supply chain resilience are at the core of ones global transportation network. This is a timely and well written contribution to the industry." John A. Moseley, Senior Dir
This book 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

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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.

International trade has grown rapidly over the past half century, accommodated by the transportation industry through concomitant growth and technological change. But while the connection between transport and trade flows is clear, the academic literature often looks at these two issues separately. This Handbook is unique in pulling together the key insights of each field while highlighting what we know about their intersection and

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Ideas for future research in this relatively unexamined but growing area of study. Global logistics entails tradeoffs in facility location, distribution networks, the routing and scheduling of deliveries by different modes of travel (e.g., air, water, truck, rail), procurement, and the overall management of international supply chains. In an increasingly global economy, then, logistics has become a very important matter in the success or failure of an organization. It is an integral part of supply chain management that involves not just operations management considerations, but production engineering and regional science issues as well. As Director of the prestigious Waterloo Management of Integrated Manufacturing Systems Research Group (WATMIMS), which specializes in logistics and manufacturing, Jim Bookbinder is uniquely qualified to edit a handbook on global logistics. He has aligned a set of prominent contributors for this volume. The chapters in the Handbook are organized into discrete sections that examine modes; logistics in particular countries; operations within a free-trade zone; innovative features impacting international logistics; case studies of specific companies; and a look toward the future. Contributors are from the Americas, Europe, and Asia, and they push the state of the art in areas such as trade vs. security; border issues; cabotage within NAFTA; Green logistics corridors within the EU; inland ports; direct-to-store considerations; and all the questions that need to be confronted in any given region. This will certainly appeal to researchers and practitioners alike, and could serve as required or supplementary reading in graduate-level logistics courses as well.

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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! 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

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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.

A primer for newcomers to the field of logistics, offering clear and understandable explanations of the key concepts and methods

This handbook begins with the history of Supply Chain (SC) Engineering, it goes on to explain how the SC is connected today, and rounds out with future trends. The overall merit of the book is that it introduces a framework similar to sundial that allows an organization to determine where their company may fall on the SC Technology Scale. The book will describe those who are using more historic technologies, companies that are using current collaboration tools for connecting their SC to other global SCs, and the SCs that are moving more towards cutting edge technologies. This book will be a handbook for practitioners, a teaching resource for academics, and a guide for military

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contractors. Some figures in the eBook will be in color. Presents a decision model for choosing the best Supply Chain Engineering (SCE) strategies for Service and Manufacturing Operations with respect to Industrial Engineering and Operations Research techniques Offers an economic comparison model for evaluating SCE strategies for manufacturing outsourcing as opposed to keeping operations in-house Demonstrates how to integrate automation techniques such as RFID into planning and distribution operations Provides case studies of SC inventory reductions using automation from AIT and RFID research Covers planning and scheduling, as well as transportation and SC theory and problems

The Routledge Handbook of Public Transport is a reference work of chapters providing in-depth examination of the current issues and future developments facing public transport. Chapters in this book are dedicated to specific key topics, identifying the challenges therein and pointing to emerging areas of research and concern. The content is written by an international group of expert contributors and is enhanced through contributions from practitioners to deliver a broader perspective. The Handbook deals with public transport policy context, modal settings, public transport environment, public transport delivery issues, smart card data for planning and the future of public transport. This comprehensive reference work will be a vital source for academics, researchers and transport practitioners in public transport management, transport policy and transport planning.

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This book lays the foundations for quality modeling and analysis in the context of supply chains through a synthesis of the economics, operations management, as well as operations research/management science literature on quality. The reality of today's supply chain networks, given their global reach from sourcing locations to points of demand, is further challenged by such issues as the growth in outsourcing as well as the information asymmetry associated with what producers know about the quality of their products and what consumers know. Although much of the related literature has focused on the micro aspects of supply chain networks, considering two or three decision-makers, it is essential to capture the scale of supply chain networks in a holistic manner that occurs in practice in order to be able to evaluate and analyze the competition and the impacts on supply chain quality in a quantifiable manner. This volume provides an overview of the fundamental methodologies utilized in this book, including optimization theory, game theory, variational inequality theory, and projected dynamical systems theory. It then focuses on major issues in today's supply chains with respect to quality, beginning with information asymmetry, followed by product differentiation and branding, the outsourcing of production, from components to final products, to quality in freight service provision. The book is filled with numerous real-life examples in order to emphasize the generality and pragmatism of the models and tools. The novelty of the framework lies in a network economics perspective through which the authors identify the underlying network structure of the various supply chains,

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coupled with the behavior of the decision-makers, ranging from suppliers and manufacturers to freight service providers. What is meant by quality is rigorously defined and quantified. The authors explore the underlying dynamics associated with the competitive processes along with the equilibrium solutions. As appropriate, the supply chain decision-makers compete in terms of quantity and quality, or in price and quality. The relevance of the various models that are developed to specific industrial sectors, including pharmaceuticals and high technology products, is clearly made. Qualitative analyses are provided, along with effective, and, easy to implement, computational procedures. Finally, the impacts of policy interventions, in the form of minimum quality standards, and their ramifications, in terms of product prices, quality levels, as well as profits are explored. The book is filled with many network figures, graphs, and tables with data.

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

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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. The book includes contributions from leading practitioners and academics in the field. The new edition includes a variety of new contributors, including: A. Michael Knemeyer, Associate Professor of Logistics, Fisher College of Business, The Ohio State University; John P. Saldanha, Assistant Professor of Logistics, Fisher College of Business, The Ohio State University; Prof. Dr. Michele Acciaro, Assistant Professor of Maritime Logistics, THE KLU, Hamburg; Prof. Dr. Joern Meissner, Professor of Supply Chain Management & Pricing Strategy, THE KLU, Hamburg.

Transportation Management is the most vital link in the supply chain today as it carries the burden of "inventory in motion" in most modern supply chains. This book provides both a conceptual and deeply practical look at transportation, how it has changed since deregulation in 1980 and how modern, global supply chains, have tailored transportation into the critical connection it must be to simultaneously serve billions of

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consumers while also being highly efficiently to meet today's flexibility, speed, and cost constraints.

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.

The Fourth Industrial Revolution is now transforming logistics and supply chain industries. Consumer habits are changing fast and supply chains are having to adapt to meet the challenges created by this dynamic new environment. Traditional logistics operating models are under threat. Incumbent freight operators across the entire transport and warehousing spectrum have been forced to develop strategies to effectively compete with new start-ups. The Logistics and Supply Chain Innovation Handbook provides a comprehensive overview of all the major new technologies and business models currently under development and looks at this process of disruption in detail. The Logistics and Supply Chain Innovation Handbook covers many important topics, such as crowd sourcing and shipping, on-demand delivery, autonomous vehicles, automation in the warehouse, electric vehicles and alternative fuels. It provides readers with a straightforward and easy to understand assessment of these innovations and their impact on the industry. Online supporting resources include

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PowerPoints and sample case studies.

Asian transportation systems and services, as well as their usage, are fraught with challenges. This handbook therefore seeks to examine the possible solutions to the problems faced by the region. It illustrates the history of transportation development in Asia and provides a comprehensive overview of research on urban and intercity transport. Presenting an extensive literature review and detailed summaries of the major findings and methodologies, this book also offers suggestions for future research activities from top-level international researchers. Written from an interdisciplinary perspective, the topics covered include: Transportation systems across Asia; Traffic accidents; Air pollution; Land use and logistics; Transport governance. Considering the population and economic development scale, as well as the diverse cultures of Asia, the Routledge Handbook of Transport in Asia will be a valuable resource for students and scholars of transportation, Asian development and Asian Studies in general.

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.

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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.

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

The development of international trade is driven by international logistics and management and the provision of the global supply chain. The ultimate objective of

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global supply chain management is to link the market place, distribution network, manufacturing/processing/assembly process, and procurement activity in such a way that customers are serviced at a higher level yet lower cost. Overall this has introduced a new breed of management in a computer literate environment operating in a global infrastructure. Addressing this complex topic, Alan Branch's new book fulfills two clear objectives: to provide a concise, standard work on the subject, written in lucid language that embraces all the ingredients of a notoriously complex subject with a strategic focus to extol best practices and focus on all areas of the industrial and consumer sectors and their interface with changing international market needs. Until now, no book dedicated to international logistics and supply chain management was available. Practically-oriented, this book features numerous case studies and diagrams from logistic operators. An ideal resource for management students, academics and managers who need a succinct treatment of global operations, Branch's book skillfully illustrates his ideas in practice. It is a book which should be on the shelf of every practitioner and student of the subject. Also available from Routledge: Elements of Shipping, Eighth Edition, Alan E. Branch. (978-0-415-36286-3) Maritime Economics: Management and Marketing, Alan E. Branch. (978-0-748-73986-8)

The SAGE Handbook of Transport Studies is an authoritative survey of contemporary transportation systems examined in terms of economic, social, and technical issues, as well as environmental challenges. Incorporating an extensive range of approaches - from modes,

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terminals, planning and policy to more recent developments related to supply chain management, information systems and sustainability/ecology - the work provides a cohesive and extensive overview of transport studies. Authored by international experts in their field, each individual chapter bridges a broad range of conceptual, theoretical and geographical perspectives, and the Handbook is divided into six sections: • Transport in the Global World • Transport in Regions and Localities • Transport, Economy and Society • Transport Policy • Transport Networks and Models • Transport and the Environment This Handbook will be an indispensable resource for academics, planners, and policy-makers.

In the past few decades, the field of transportation has changed dramatically. Deregulation and greater reliance on markets and the private sector has helped to reconfigure the transport industries, while the rise of intermodal goods and global commerce has produced efficiencies of operation and a greater interdependence among transport modes. In a

The Routledge Handbook of Transportation offers a current and comprehensive survey of transportation planning and engineering research. It provides a step-by-step introduction to research related to traffic engineering and control, transportation planning, and performance measurement and evaluation of transportation alternatives. The Handbook of Transportation demonstrates models and methods for predicting travel and freight demand, planning future transportation networks, and developing traffic control systems. Readers will learn how to use various engineering concepts and approaches to make future transportation safer, more efficient, and more sustainable. Edited by Dušan Teodorović and featuring 29 chapters from more than 50 leading global experts, with more than 200 illustrations, the Routledge Handbook of Transportation is designed as an invaluable resource for professionals and students in

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transportation planning and engineering.

Your one-stop reference for entering the global logistics environment *Global Logistics for Dummies* is an operational-level reference and overview for those manufacturers, businesses, product distributors, providers of logistics services, humanitarian and disaster relief responders and logisticians on both ends of a global chain who are considering entry in or have recently embarked on entering the global logistics chain/market. Easy to follow and packed with tons of helpful information, it serves as a springboard to larger texts for more detailed information. Beginning with an introduction to both the “whats” and “whys” of global logistics, the book sheds light on how global logistics demands the involvement of not only all elements of the logistics enterprise – e.g., design, logistics engineering, supply, storage/distribution, maintenance, transportation, returns/re-manufacturing, etc. – but also all elements of the business enterprise. In no time, it’ll get you up to speed on the whole-enterprise logistics elements that should be considered in the decision to enter and excel in providing logistics end-items, goods, and services to a global customer. Deliver global disaster and relief logistics support Explore global manufacturing and distribution logistics Provide logistics services for foreign customers Adapt domestic logistics to foreign operating environments Written by a team of SOLE – The International Society of Logistics credentialed practitioners and academicians, *Global Logistics for Dummies* makes it easier than ever to succeed in this ever-growing field.

Achieving state-of-the-art excellence and attaining the cost reductions associated with outstanding logistics efforts is an obvious gain in terms of competitive edge and profitability. As logistics tools evolve in comprehensiveness and complexity, and the use of these new tools

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becomes more pervasive, maintaining a position of leadership in logistics functions also becomes increasingly difficult. And in spite of its importance not only to the bottom line but also to the functionality of your operations, logistics improvement often lags industry requirements. Taking a unique engineering approach, the Logistics Engineering Handbook provides comprehensive coverage of traditional methods and contemporary topics. The book delineates basic concepts and practices, provides a tutorial for common problems and solution techniques, and discusses current topics that define the state of the logistics market. It covers background information that defines engineering logistics, activities and implementation, transportation management, enabling technologies, and emerging trends. Each chapter includes either a brief case study overview of an industrially motivated problem or a tutorial using fabricated data designed to highlight important issues. Presentation, organization, and quality of content set this book a part. Its most distinctive feature is the engineering focus, instead of the more usual business/supply chain focus, that provides a mathematically rigorous treatment without being overly analytical. Another important characteristic is the emphasis on transportation management, especially freight transportation. The section on emerging and growing trends makes the handbook particularly useful to the savvy logistics professional wishing to exploit possible future trends in logistics practice. The handbook is a one-stop shopping location for logistics engineering reference materials ranging from basics to traditional problems, to state-of-the-market concerns and opportunities.

Global Logistics Assessments Reports Handbook: Transportation and Cargo Facilities in selected countries, including Syria, Iraq, Jordan

This state-of-the-art Handbook provides a comprehensive understanding and assessment of

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the field of global supply chain management (GSCM). Editors John T. Mentzer, Matthew B. Myers, and Theodore P. Stank bring together a distinguished group of contributors to describe and critically examine the key perspectives guiding GSCM, taking stock of what we know (and do not know) about them.

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.

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

Air Cargo Management provides a comprehensive and lively overview of the air cargo industry, which is both economically and strategically important in the field of logistics, world trade and supply chain management. This new edition builds on the success of the previous edition, focusing on the role of air freight in the global supply chain, including areas such as: the main players in the industry; regulations and restrictions; and terrorism management. Updates to this edition include: the role of E-Commerce and its changing influence on the industry; a

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new chapter on crime, security and terrorism; updated case studies, and new contributors providing professional insight from the industry. Enriched throughout with international case studies and contributions from industry experts, Air Cargo Management provides a practical approach. It is the perfect companion for undergraduate students studying air logistics, transportation logistics, air cargo and supply chain management. Professionals and managers in the field will also find Sales' easy style and industry insights useful and applicable to their practice.

This volume contains commissioned refereed papers that cover the main elements of transport logistics. The authors were selected from around the world and asked to provide critiques of their subject areas as well as a review of the state of the art and case study examples.

Containing revisions to areas, such as manufacturing logistics, integrated logistics, process design and home delivery, this handbook includes sections on warehouse receipt and despatch.

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

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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

The Pipeline and Hazardous Materials Safety Administration of the U.S. Department of Transportation defines hazardous materials (hazmat) as a substance or material capable of posing an unreasonable risk to health, safety, or

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property when transported in commerce. Hazmat accidents can result in significant impact to the population (death, injuries) and damage to the environment (destroyed or damaged buildings and infrastructure). Further, hazmat, especially explosive materials, can potentially be used by terrorists to attack civilians or to destroy critical infrastructure. This handbook provides models from Operations Research and Management Science that study various activities involving hazmat transportation: risk assessment, route planning, location decisions, evacuation planning, and emergency planning for terrorist attacks. There are two important research areas in hazmat transportation that are widely studied in the literature: risk assessment and shipment planning. In the risk assessment area, important issues include measurement of accident probabilities and consequences in hazmat transport. Example works in the risk assessment area include modeling risk probability distribution over given areas, considering hazmat types and transport modes, and environmental conditions. The first half of this handbook covers the two fields of risk assessment and shipment planning, while the second half of this handbook provides useful models and insights on other important issues including location problems for undesirable facilities, network interdiction, terrorist attack, and evacuation.

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