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The book's website (with databases and other support materials) can be accessed here. Praise for the Second Edition: The second edition introduces an especially broad set of statistical methods ... As a lecturer in both transportation and marketing research, I find this book an excellent textbook for advanced undergraduate, Master's and Ph.D. students, covering topics from simple descriptive statistics to complex Bayesian models. ... It is one of the few books that cover an extensive set of statistical methods needed for data analysis in transportation. The book offers a wealth of examples from the transportation field. —The American Statistician Statistical and Econometric Methods for Transportation Data Analysis, Third Edition offers an expansion over the first and second editions in response to the recent methodological advancements in the fields of econometrics and statistics and to provide an increasing range of examples and corresponding data sets. It describes and illustrates some of the statistical and econometric tools commonly used in transportation data analysis. It provides a wide breadth of examples and case studies, covering applications in various aspects of transportation planning, engineering, safety, and economics. Ample analytical rigor is provided in each chapter so that fundamental concepts and principles are clear and numerous references are provided for those seeking additional technical details and applications. New to the Third Edition Updated references and improved examples throughout. New sections on random parameters linear regression and ordered probability models including the hierarchical ordered probit model. A new section on random parameters models with heterogeneity in the means and variances of parameter estimates. Multiple new sections on correlated random parameters and correlated grouped random parameters in probit, logit and hazard-based models. A new section discussing the practical aspects of random parameters model estimation. A new chapter on Latent Class Models. A new chapter on Bivariate and Multivariate Dependent Variable Models. Statistical and Econometric Methods for Transportation Data Analysis, Third Edition can serve as a textbook for advanced undergraduate, Masters, and Ph.D. students in transportation-related disciplines including engineering, economics, urban and regional planning, and sociology. The book also serves as a technical reference for researchers and practitioners wishing to examine and understand a broad range of statistical and econometric tools required to study transportation problems.

Transportation is the world's largest invisible industry. Modern society is completely dependent on transportation to sustain its way of life, and it is all around us constantly. Yet the economics of transportation is a mystery to most people. Why do air fares rise and fall? Why do urban transit systems struggle to survive and require such large public subsidies? Why does freight transport cost more to move in one direction than an equal distance in another? Why is the government so heavily involved in transportation? Concepts of Transportation Economics provides explanations to these queries and many more, as well-renowned experts in the field, Barry E Prentice and Darren Prokop interpret the unique dynamics underlying transportation through the lens of applied economics, and demonstrate that the operations of transportation are completely logical and obvious once the concepts that underlie business decisions and consumer reactions are explained.

This collection of writings provides the only comprehensive introduction to the input-output model for which Leontief was awarded the Nobel Prize in 1973. The structural approach to economics developed by Leontief, and known as input-output analysis, paved the way for the transformation of economics into a truly empirical discipline that could utilize modern data processing technology. This thoroughly revised second edition includes twenty essays--twelve of which are new to this edition--that reflect the past developments and the present state of the field. Beginning with an introductory chapter, the book leads the reader into an understanding of the input-output approach--not only as formal theory but also as a research strategy and powerful tool for dealing with a complex modern economy.

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.

This book is open access under a CC BY NC ND 4.0 license. This open access book discusses how Norwegian shipping companies played a crucial role in global shipping markets in the 20th century, at times transporting more than ten per cent of world seaborne trade. Chapters explore how Norway managed to remain competitive, despite being a high labour-cost country in an industry with global competition. Among the features that are emphasised are market developments, business strategies and political decisions The Norwegian experience was shaped by the main breaking points in 20th century world history, such as the two world wars, and by long-term trends, such as globalization and liberalization. The shipping companies introduced technological and organizational innovations to build or maintain a competitive advantage in a rapidly changing world. The growing importance of offshore petroleum exploration in the North Sea from the 1970s was both a threat and an opportunity to the shipping companies. By adapt-

ing both business strategies and the political regime to the new circumstances, the Norwegian shipping sector managed to maintain a leading position internationally.

Revealing the workings and dangers of freight shipping, which is the key to our economy, environment and civilization, the author sails from Rotterdam to Suez to Singapore to present an eye-opening glimpse into an overlooked world filled with suspect practices, dubious operators and pirates. 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.

Maritime Security, 2e, provides practical, experience-based, and proven knowledge - and a "how-to-guide" - on maritime security. McNicholas explains in clear language how commercial seaports and vessels function; what threats currently exist; what security policies, procedures, systems, and measures must be implemented to mitigate these threats; and how to conduct ship and port security assessments and plans. Whether the problem is weapons of mass destruction or cargo theft, Maritime Security provides invaluable guidance for the professionals who protect our shipping and ports. New chapters focus on whole government maritime security, UN legal conventions and frameworks, transnational crime, and migration. Updates throughout will provide the latest information in increasingly important field. Provides an excellent introduction to issues facing this critical transportation channel Three all-new chapters, and updated throughout to reflect changes in maritime security Increased coverage of migration issues and transnational crime New contributors bring legal security and cybersecurity issues to the fore

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 transport is one of the most ancient supports to human interactions across history and it still supports more than 90% of world trade volumes today. The changing connectivity of maritime networks is of crucial importance to port, transport, and economic development and planning. The way ports, terminals, but also cities, regions and countries, are connected with each other through maritime flows is not well-known and difficult to represent and measure, even for the transport actors themselves. There is a strong, urgent need for reviewing the relevant theories, concepts, methods, and sources that can be mobilized for the analysis of maritime networks. With contributions from reputable scholars from all over the world, this book investigates the analysis of maritime flows and networks from diverse disciplinary angles going across archaeology, history, geography, regional science, economics, mathematics, physics, and computer sciences. Based on a vast array of methods, such as Geographical Information Systems (GIS), spatial analysis, complex networks, modelling, and simulation, it addresses several crucial issues related with port hierarchy; route density; modal interdependency; network robustness and vulnerability; traffic concentration and seasonality; technological change and urban/regional economic development. This book examines new evidence about how socio-economic trends are reflected (but also influenced) by maritime flows and networks, and about the way this knowledge can support and enhance decision-making in relation to the development of ports, supply chains, and transport networks in general. This book is an ideal companion to anyone interested in the network analysis of transport systems and economic systems in general, as well as the effective ways to analyse large datasets to answer complex issues in transportation and socio-economic development.

In April 1956, a refitted oil tanker carried fifty-eight shipping containers from Newark to Houston. From that modest beginning, container shipping developed into a huge industry that made the boom in global trade possible. The Box tells the dramatic story of the container's creation, the decade of struggle before it was widely adopted, and the sweeping economic consequences of the sharp fall in transportation costs that containerization brought about. But the container didn't just happen. Its adoption required huge sums of money, both from private investors and from ports that aspired to be on the leading edge of a new technology. It required years of high-stakes bargaining with two of the titans of organized labor, Harry Bridges and Teddy Gleason, as well as delicate negotiations on standards that made it possible for almost any container to travel on any truck or train or ship. Ultimately, it took McLean's success in supplying U.S. forces in Vietnam to persuade the world of the container's potential. Drawing on previously neglected sources, economist Marc Levinson shows how the container transformed economic geography, devastating traditional ports such as New York and London and fueling the growth of previously obscure ones, such as Oakland. By making shipping so cheap that industry could locate factories far from its customers, the container paved the way for Asia to become the world's workshop and brought consumers a previously unimaginable variety of low-cost products from around the globe. Published in hardcover on the fiftieth anniversary of the first container voyage, this is the

first comprehensive history of the shipping container. Now with a new chapter, *The Box* tells the dramatic story of how the drive and imagination of an iconoclastic entrepreneur turned containerization from an impractical idea into a phenomenon that transformed economic geography, slashed transportation costs, and made the boom in global trade possible.

Port Business is essential reading for all those with an interest in trade and transportation and the role of ports in the global supply chain. It discusses the various types of ports in existence, identifies the major ports per category, analyzes what the key business drivers are, describes their governance, how they are managed, which trends influence them, and what kind of impact they have on supply chains. Dr. Jürgen Sorgenfrei uses his significant consulting and project development experience within the international ports, shipping, rail & logistics sector, and in global economics, trade, analytics, and forecasting as well as in intermodal hinterland transport to provide this comprehensive overview of port management. The book is a combination of a strong background in principles and practical knowledge and is an indispensable resource for those interested in maritime economics.

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 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.

This open access book belongs to the Maritime Business and Economic History strand of the Palgrave Studies in Maritime Economics book series. This volume highlights the contribution of the shipping industry to the transformations in business and society of the postwar era. Shipping was both an example and an engine of globalization and structural change. In turn, the industry experienced and pioneered, mirrored and enabled key developments that led to the present-day globalized economy. Contributions address issues such as the macro-level shift of shipping's centre of gravity from Europe to Asia, the political and legal frameworks within which it developed, the strategies and performance of both successful and unsuccessful firms, and the links between the shipping industry and the wider economy and society. Without shipping and its ability to forge connections and networks of a global reach, the modern world would look very different. By bringing together scholars from various disciplinary and national backgrounds, this book advances our understanding of the linkages that bind economies and societies together.

Shipping is by far the most significant mode of transportation for the carriage of freight. In terms of volume alone, no other mode comes close. Its dominance is even more overwhelming when distances are accounted for. This book is concerned with the economics of this pivotal mode of transportation. It reveals that the influences on the development and current state of shipping economics research are extremely eclectic. The various chapters in the book represent areas that are of central concern to ongoing research in the field. As such, the book is useful to students, researchers, industrialists, policy makers and consultants. The authors of the contributed chapters are some of the leading names in the world of shipping economics, addressing a number of diverse areas: The econometric modeling of shipping markets; Shipping finance (a critical issue in such a capital intensive industry); Fiscal policy (and its impact on an international industry with great asset mobility) and Safety and security (aspects that have risen to prominence with increasing concerns over the environment and international terrorism). Ultimately, while shipping as a business depends upon trade, it is absolutely certain that the business of trade depends upon shipping. The final two chapters, therefore, incorporate aspects of network economics, welfare economics and international trade theory to analyze where and how shipping sits within the wider perspective of industrial supply chains. Professor Kevin Cullinane, BA BSc MSc PhD FCILT CNI Professor Kevin Cullinane is Chair in Marine Transport and Management at the University of Newcastle in the U.K. He was previously Professor and Head of the Department of Shipping and Transport Logistics at the Hong Kong Polytechnic University, Head of the Centre for International Shipping and Transport at Plymouth University, Senior Partner in his own transport consultancy company and Research Fellow at the University of Oxford Transport Studies Unit. He is a Fellow of the Chartered Institute of Logistics and Transport and has been a transport adviser to the governments of Hong Kong, Egypt, Chile and the U.K. He holds visiting Professorships at a number of institutions and an Honorary Professorship at the University of Hong Kong.

This book uses multidisciplinary approaches from economics, geography and policy analysis to explore the spatial economics of the marine.

Freight Transport and the Modern Economy adapts a well-known textbook by Michel Savy, revising, extending and updating it for British, European and international readers. It deals not only with the technical aspects of transport, logistics and supply chain management, but also the interactions between transport professionals and the public authorities in the modern social, political, economic and environmental context. The transport of freight is presented as a system, mixing empirics and theory, showing how transport itself functions and also its strong influence on the modern economy, with a growing volume of production, turnover and employment. The nature of freight transport, an industrial process widely marketed as a service, is analysed in depth, explaining the main characteristics of the transport operation, its market and the regulatory context. The main actors, the professional actors (carriers, shippers and other agents) and the public authorities are introduced, and their behaviour and interactions are clarified. This comprehensive approach allows the reader to go further and consider in particular the approaches and practices of transport by carriers, customers, logistics managers, political decision makers and citizens, to tackle long range issues such as the 'decoupling' of production and transport rec-

ommended by some institutions and experts, and to explore the need for more infrastructure, or the capacity of the freight transport industry to reduce its contribution to pollution and climate change. This book treats freight transport as a whole system in its technical, economic, social, political and environmental context, in contrast to existing transport literature focused on individual aspects, such as transportation planning (usually for cars or passengers), logistics (essentially management issues), or individual transport modes. This book is comprehensive in its treatment of freight transport and in its use of multiple disciplinary perspectives.

This book analyses shipping markets and their interdependence. This ground-breaking text develops a new macroeconomic approach to maritime economics and provides the reader with a more comprehensive understanding of the way modern shipping markets function.

In April 1956, a refitted oil tanker carried fifty-eight shipping containers from Newark to Houston. From that modest beginning, container shipping developed into a huge industry that reshaped manufacturing. But the container didn't just happen. Its adoption required huge sums of money, years of high-stakes bargaining, and delicate negotiation on standards. Now with a new chapter, *The Box* tells the dramatic story of how the drive and imagination of an iconoclastic entrepreneur turned containerization from an impractical idea into a phenomenon that transformed economic geography, slashed transportation costs, and made the boom in global trade possible. -- from back cover.

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

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

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.

For 5000 years shipping has served the world economy and today it provides a sophisticated transport service to every part of the globe. Yet despite its economic complexity, shipping retains much of the competitive cut and thrust of the "perfect" market of classical economics. This blend of sophisticated logistics and larger than life entrepreneurs makes it a unique case study of classical economics in a modern setting. The enlarged and substantially rewritten *Maritime Economics* uses historical and theoretical analysis as the framework for a practical explanation of how shipping works today. Whilst retaining the structure of the second edition, its scope is widened to include: lessons from 5000 years of commercial shipping history shipping cycles back to 1741, with a year by year commentary updated chapters on markets; shipping costs; accounts; ship finance and a new chapter on the return on capital new chapters on the geography of sea trade; trade theory and specialised cargoes updated chapters on the merchant fleet shipbuilding, recycling and the regulatory regime a much revised chapter on the challenges and pitfalls of forecasting. With over 800 pages, 200 illustrations, maps, technical drawings and tables *Maritime Economics* is the shipping industry's most comprehensive text and reference source, whilst remaining as one reviewer put it "a very readable book". Martin Stopford has enjoyed a distinguished career in the shipping industry as Director of Business Development with British Shipbuilders, Global Shipping Economist with the Chase Manhattan Bank N.A., Chief Executive of Lloyds Maritime Information Services; Managing Director of Clarkson Research Services and an executive Director of Clarksons PLC. He lectures regularly at Cambridge Academy of Transport and is a Visiting Professor at Cass Business School, Dalian Maritime University and Copenhagen Business School.

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

"First published in 1981, ""The Sulu Zone"" has become a classic in the field of Southeast Asian History. The book deals with a fascinating geographical, cultural and historical ""border zone"" centred on the Sulu and Celebes Seas between 1768 and 1898, and its complex interactions with China and the West. The author examines the social and cultural forces generated within the Sulu Sultanate by the China trade, namely the advent of organized, long distance maritime slave raiding and the assimilation of captives on a hitherto unprecedented scale into a traditional Malayo-Muslim social system. How entangled commodities, trajectories of tastes, and patterns of consumption and desire that span continents linked to slavery and slave raiding, the manipulation of diverse ethnic groups, the meaning and constitution of ""culture, "" and state formation? James Warren responds to this question by reconstructing the social, economic, and political relationships of diverse peoples in a multi-ethnic zone of which the Sulu Sultanate was the centre, and by problematizing important categories like ""piracy"", ""slavery"", ""culture"", ""ethnicity"", and the ""state"". His work analyzes the dynamics of the last autonomous Malayo-Muslim maritime state over a long historical period and describes its stunning response to the world capitalist

economy and the rapid "forward movement" of colonialism and modernity. It also shows how the changing world of global cultural flows and economic interactions caused by cross-cultural trade and European dominance affected men and women who were forest dwellers, highlanders, and slaves, people who worked in everyday jobs as fishers, raiders, divers or traders. Often neglected by historians, the response of these members of society are a crucial part of the history of Southeast Asia."

This book provides an expert analysis of alternative investments routes and the investment strategies available to the major port players, and is a much-needed guide to expanding the investor base for private debt funding of projects from loan providers to bond investors. Port infrastructure investments are vitally important to all ports throughout the world; without these investments, the competitive position of ports and of the dependent logistics sector will deteriorate. National/regional governments and the local port authorities are no longer a guaranteed source of sufficient financial input to meet the continuous port infrastructure investment needs of major ports. It is, therefore, increasingly crucial for ports to broaden their strategies and secure alternative streams of investment. This book provides expert insight into areas of port infrastructure finance across the main regions of Europe, Asia, Africa and the USA. Topics include how to estimate future demand by way of forecasting; Public-Private Partnerships; corporatisation; the pricing mechanisms for syndicated loans; European port privatisation; finance strategies for ports in Asia, the USA and Africa; and a discussion of the investment strategies available to the major port players. Port Infrastructure Finance is an invaluable book for all parties involved in the port and maritime business, as well as investment companies, banks and other financial institutions involved in infrastructure investment.

The classic Business of Shipping (now in its ninth edition) remains North America's most comprehensive industry-focused book that explains and analyzes marine transportation and related industries, both domestic and international. This is an authoritative text that is required reading for a newcomer looking to understand basic shipping operations, regulations, and international cargo movement, or a specialized professional seeking insight into other industry segments. Revised and fully updated, the ninth edition reaffirms its status as the cornerstone text in marine transportation education.

Port Economics is the study of the economic decisions (and their consequences) of the users and providers of port services. A port is an "engine" for economic development by providing employment, worker incomes, business earnings and taxes for its region. The book provides a detailed discussion of types of carriers that use ports, the operation of cargo and passenger ports as well as the operation of such specific ports as Hong Kong, Hamburg, Le Havre, Savannah, Miami and Panama. Port Economics is the first contemporary textbook of its kind. It enhances our understanding of port economics by - classifying port users and suppliers of port services in the context of economic demand and supply curves; denoting that the demand for port services has two prices, the price paid to the port by the users and the price (or actual and opportunity costs) incurred by port user carriers, shippers and passengers; presenting the economic theories of carriers, shippers and passengers. The numerous up-to-date references will be of benefit to students and researchers of the economics of the shipping trade; to government officials in developing port and shipping policies; and to port operators in understanding the port-choice selection process by shipping lines and other carriers.

Extensively updated and revised, this third edition explains in simple terms the practical economic considerations involved in modern shipping management in changing legal and logistical environments - primarily marketing-driven - in the liner-cargo, bulk-cargo and specialized-tonnage markets. Four new chapters are included on marketing, and there are also additional chapters on ship management, seaports and logistics. The chapters on economics of chartering, containerization, ship finance, international trade, political factors, ship manning and international agencies have been enlarged.

Modern logistics comprises operative logistics, analytical logistics and management of logistic networks. Central task of operative logistics is the efficient supply of required goods at the right place within the right time. Tasks of analytical logistics are designing optimal networks and systems, developing strategies for planning, scheduling and operation, and organizing efficient order and performance processes. Logistic management plans, implements and operates logistic networks and schedules orders, stocks and resources. This reference-book offers a unique survey of modern logistics. It contains proven strategies, rules and tools for the solution of a multitude of logistic problems. The analytically derived algorithms and formulas can be used for the computer-based planning of logistic systems and for the dynamic scheduling of orders and resources in supply networks. They enable significant improvements of performance, quality and costs. Their application is demonstrated by several examples from industry, trade and service providers. Apart from corrections and modifications the second edition contains a new chapter on maritime logistics. It demonstrates how the methods of this book can be used to solve complex logistic problems of practical relevance for economy, society and environment. The book is written for professionals, scientists, teachers and graduate students. An extensive index makes it a dictionary of modern logistics.

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 Interna-

tional Shipping Policies • Aspects of Shipping Management and Operations • Shipping Investment and Finance • Port Economics and Management • Aspects of International Logistics

The shipping industry has an impact on each and every one of us every day. Ships transport the food we eat, the clothes we wear, the cars we drive, the materials used to build our homes, and the fuel that heats them. Yet traditional shipping companies - ones that combine various aspects of shipping under one organizational roof - are on the decline. They are gradually being replaced by new, more specialized companies with more strategic clarity and managerial focus. In Shipping Strategy Peter Lorange draws on his extensive experience in the shipping industry to show how companies can adapt to the fast-moving and volatile world of maritime business by devising strategies for future success, including specialization and innovation.

This authoritative guide enables accurate identification of the common components of the inshore benthic invertebrates of the British Isles and adjacent European coasts, as well as a substantial proportion of fish species. This new edition builds upon the strengths of the earlier work and is thoroughly revised throughout to incorporate advances in both the taxonomy and ecology of the organisms concerned.

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.

What affects the supply of oil? How important is the weather in determining grain prices? Why has the price of copper skyrocketed? This unique book analyses the economics of key commodity groups, including energy, agriculture and metals. It examines the supply/demand fundamentals of several major and minor commodities, physical characteristics, production and consumption patterns, trade flows and pricing mechanisms. It also explains the main tools used to hedge price risk, such as futures, options and swaps. This second edition has been fully revised and restructured, and contains four new chapters, including oil refining, electricity and price risk management for energy, metals and agricultural commodities This book is an indispensable reference text for students, academics and those working in the commodity business.

The importance of international liner shipping needs little emphasizing. A large majority of international trade moves by sea, and the liner shipping share in total freight revenue exceeds one-half. Notwithstanding, people in general know surprisingly little about the basic facts of the liner shipping industry, and, in particular, about the economics of liner shipping. Perhaps because it is an international industry, where shipping lines flying many different flags participate, it has tended to fall in between national accounts of domestic industries. Even transport economists have, generally speaking, treated liner shipping rather 'stepmotherly'; besides the work of Bennathan and Walters (1969), a relatively small group of specialized maritime economists, including A. Stromme-Svendson, T. Thorburn, S. Sturmeay, R. Goss, and B. M. Deakin, have in the post-war period made important contributions to the subject, but so far no coherent and reasonably comprehensive treatise of liner shipping economics has appeared. The first purpose of the present volume is therefore obvious: to provide just that. The book is divided in three parts: Part I The liner shipping industry; Part II Liner service optimization; Part III Economic evaluation of the conference system. Needless to say, all three parts concur to fulfill the first purpose of providing a complete book of liner shipping economics. In Part II a more or less separate, second, purpose has been to develop analytical tools for liner service optimization. Thereby we use different approaches.

International trade has shaped the modern world, yet until now no single book has been available for both economists and general readers that traces the history of the international economy from its earliest beginnings to the present day. Power and Plenty fills this gap, providing the first full account of world trade and development over the course of the last millennium. Ronald Findlay and Kevin O'Rourke examine the successive waves of globalization and "deglobalization" that have occurred during the past thousand years, looking closely at the technological and political causes behind these long-term trends. They show how the expansion and contraction of the world economy has been directly tied to the two-way interplay of trade and geopolitics, and how war and peace have been critical determinants of international trade over the very long run. The story they tell is sweeping in scope, one that links the emergence of the Western economies with economic and political developments throughout Eurasia centuries ago. Drawing extensively upon empirical evidence and informing their systematic analysis with insights from contemporary economic theory, Findlay and O'Rourke demonstrate the close interrelationships of trade and warfare, the mutual interdependence of the world's different regions, and the crucial role these factors have played in explaining modern economic growth. Power and Plenty is a must-read for anyone seeking to understand the origins of today's international economy, the forces that continue to shape it, and the economic and political challenges confronting policymakers in the twenty-first century.