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All businesses strive for excellence in today's technology-based environment in which customers want solutions at the touch of a button. This highly regarded textbook provides in-depth coverage of the principles

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of operations and supply chain management and explains how to design, implement, and maintain processes for sustainable competitive advantage. This text offers a unique combination of theory and practice with a strategic, results-driven approach. Now in its fourth edition, Operations Management for Business Excellence has been updated to reflect major advances and future trends in supply chain management. A new chapter on advanced supply chain concepts covers novel logistics technology, information systems, customer proximity, sustainability, and the use of multiple sales

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channels. As a platform for discussion, the exploration of future trends includes self-driving vehicles, automation and robotics, and omnichannel retailing. Features include: A host of international case studies and examples to demonstrate how theory translates to practice, including Airbus, Hewlett Packard, Puma, and Toyota. A consistent structure to aid learning and retention: Each chapter begins with a detailed set of learning objectives and finishes with a chapter summary, a set of discussion questions and a list of key terms. Fully comprehensive with an emphasis on the

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practical, this textbook should be core reading for advanced undergraduate and postgraduate students of operations management and supply chain management. It would also appeal to executives who desire an understanding of how to achieve and maintain 'excellence' in business. Online resources include lecture slides, a glossary, test questions, downloadable figures, and a bonus chapter on project management.

This is today's indispensable introduction to supply chain management for today's students and tomorrow's managers - not yesterday's! Prof. Hokey Min focuses on modern business

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strategies and applications - transcending obsolete logistics- and purchasing-driven approaches still found in many competitive books. Focusing on outcomes throughout, The Essentials of Supply Chain Management shows how to achieve continuous organizational success by applying modern supply chain concepts. Reflecting his extensive recent experience working with leading executives and managers, Min teaches highly-effective methods for supply chain thinking and problem-solving. You'll master an integrated Total System Approach that places functions like inventory control and transportation squarely

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in context, helping you smoothly integrate internal and external functions, and establish effective inter-firm cooperation and strategic alliances across complex supply chains. Coverage includes: Understanding modern sourcing, logistics, operations, sales, and marketing - and how they fit together Using modern supply chain methods to improve customer satisfaction and quality Working with cutting-edge supply chain technology and metrics Moving towards greater sustainability and more effective risk management Working with core analytical tools to evaluate supply chain practices and

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measure performance Legal, ethical, cultural, and environmental/sustainability aspects of modern supply chain operations How to build a career in global supply chain management The Essentials of Supply Chain Management will be an indispensable resource for all graduate and undergraduate students in supply chain management, and for every practitioner pursuing professional certification or executive education in the field.

Transportation Engineering: Theory, Practice and Modeling, Second Edition presents comprehensive information related to traffic engineering and control, transportation

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planning and evaluation of transportation alternatives. The book systematically deals with almost the entire transportation engineering area, offering various techniques related to transportation modeling, transportation planning, and traffic control. It also shows readers how to use models and methods when predicting travel and freight transportation demand, how to analyze existing transportation networks, how to plan for new networks, and how to develop traffic control tactics and strategies. New topics addressed include alternative Intersections, alternative interchanges and

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individual/private transportation. Readers will also learn how to utilize a range of engineering concepts and methods to make future transportation systems safer, more cost-effective, and "greener". Providing a broad view of transportation engineering, including transport infrastructure, control methods and analysis techniques, this new edition is for postgraduates in transportation and professionals needing to keep up-to-date with the latest theories and models. Covers all forms of transportation engineering, including air, rail, road and public transit modes Examines different

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transportation modes and how to make them sustainable Features a new chapter covering the reliability, resilience, robustness and vulnerability of transportation systems Designing and Managing the Supply Chain, 3/e provides state-of-the-art models, concepts, and solution methods that are important for the design, control, operation, and management of supply chain systems. In particular, the authors attempt to convey the intuition behind many key supply chain concepts and to provide simple techniques that can be used to analyze various aspects of the supply chain. Topical coverage

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reflects the authors' desire to introduce students to those aspects of supply chain management that are critical to the success of a business. Although many essential supply chain management issues are interrelated, the authors strive to make each chapter as self-contained as possible, so that the reader can refer directly to chapters covering topics of interest. Each chapter utilizes numerous case studies and examples, and mathematical and technical sections can be skipped without loss of continuity. The 3rd edition represents a substantial revision. While the structure and philosophy were kept intact,

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the authors placed an increasing importance
on finding or developing effective frameworks
that illustrate many important supply chain
issues. At the same time, motivated by new
developments in industry, they added material
on a variety of topics new to the book while
increasing the coverage of others.

*Integrating Mission and Strategy for
Nonprofit Organizations*

*New Directions in Supply Chain Management
Modeling and Planning Initiatives*

*The Handbook of Logistics and Distribution
Management*

Logics of Organization Theory

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Logistics Operations and Management
Computer Recognition Systems 4

Fierce competition in today's global market provides a powerful motivation for developing ever more sophisticated logistics systems. This book, written for the logistics manager and researcher, presents a timely and authoritative survey of the modern theory and application of logistics, including case studies in which decision support tools for large-scale logistics applications are developed.

In a world in which global trade is at risk, where warehouses and airports, shipping lanes and seaports try to guard against the likes of Al Qaeda and Somali

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pirates, and natural disaster can disrupt the flow of goods, even our “stuff” has a political life. The high stakes of logistics are not surprising, Deborah Cowen reveals, if we understand its genesis in war. In *The Deadly Life of Logistics*, Cowen traces the art and science of logistics over the last sixty years, from the battlefield to the boardroom and back again. Focusing on choke points such as national borders, zones of piracy, blockades, and cities, she tracks contemporary efforts to keep goods circulating and brings to light the collective violence these efforts produce. She investigates how the old military art of logistics played a critical role in the making of the global economic order—not simply the

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globalization of production, but the invention of the supply chain and the reorganization of national economies into transnational systems. While reshaping the world of production and distribution, logistics is also actively reconfiguring global maps of security and citizenship, a phenomenon Cowen charts through the rise of supply chain security, with its challenge to long-standing notions of state sovereignty and border management. Though the object of corporate and governmental logistical efforts is commodity supply, *The Deadly Life of Logistics* demonstrates that they are deeply political—and, considered in the context of the long history of logistics, deeply indebted to the practice

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of war.

Alex Rogo is a harried plant manager working ever more desperately to try and improve performance. His factory is rapidly heading for disaster. So is his marriage. He has ninety days to save his plant - or it will be closed by corporate HQ, with hundreds of job losses. It takes a chance meeting with a colleague from student days - Jonah - to help him break out of conventional ways of thinking to see what needs to be done. Described by Fortune as a 'guru to industry' and by Businessweek as a 'genius', Eliyahu M. Goldratt was an internationally recognized leader in the development of new business management concepts and systems. This 20th

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anniversary edition includes a series of detailed case study interviews by David Whitford, Editor at Large, Fortune Small Business, which explore how organizations around the world have been transformed by Eli Goldratt's ideas. The story of Alex's fight to save his plant contains a serious message for all managers in industry and explains the ideas which underline the Theory of Constraints (TOC) developed by Eli Goldratt. Written in a fast-paced thriller style, The Goal is the gripping novel which is transforming management thinking throughout the Western world. It is a book to recommend to your friends in industry - even to your bosses - but not to your competitors!

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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 Operations Management for Business Excellence Uncertainty Theory Digital Transformation of Supply Chain Management Principia Mathematica

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The Goal

Green Logistics

Social Theory and Social Transformation

Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conducted significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for

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the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to its ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called

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Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential. Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In

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this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world. The first practical textbook on AnyLogic 7 from AnyLogic developers. AnyLogic is the unique simulation software that supports three simulation modeling methods: system dynamics, discrete event, and agent based

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modeling and allows you to create multi-method models. The book is structured around four examples: a model of a consumer market, an epidemic model, a job shop model and an airport model. We also give some theory on different modeling methods. You can consider this book as your first guide in studying AnyLogic 7.

Building theories of organizations is challenging: theories are partial and "folk" categories are fuzzy. The commonly used tools--first-order logic and its foundational set theory--are ill-suited for handling these complications. Here, three leading

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authorities rethink organization theory.

Logics of Organization Theory sets forth and applies a new language for theory building based on a nonmonotonic logic and fuzzy set theory. In doing so, not only does it mark a major advance in organizational theory, but it also draws lessons for theory building elsewhere in the social sciences.

Organizational research typically analyzes organizations in categories such as "bank," "hospital," or "university." These categories have been treated as crisp analytical constructs designed by researchers. But sociologists increasingly view categories as

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constructed by audiences. This book builds on cognitive psychology and anthropology to develop an audience-based theory of organizational categories. It applies this framework and the new language of theory building to organizational ecology. It reconstructs and integrates four central theory fragments, and in so doing reveals unexpected connections and new insights. Healthcare improvements is constantly relevant and an important topic. Healthcare is frequently being called upon to be more cost-efficient and still fulfil demands regarding waiting times, quality and

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availability. Experience from structural changes in other contexts gives reason to be positive about the potential for logistics improvements in the healthcare sector as well. From a logistics perspective patients pass different care functions, units, organisations and health facilities. It is assumed that logistics management knowledge applied in healthcare can lead to lower costs, shorter waiting times, better patient service, shorter treatment times and increased capacity. This dissertation therefore presents an exploration of how logistics management theories can be

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operationalised in a healthcare context to understand care chain effectiveness.

Theoretically, the operationalisation is done by systems theory creating compatibility between logistics management theories and the healthcare context. As a first step, features for a logistics system forms features for achieving care chain effectiveness. High care chain effectiveness is thus a desired condition and the care delivery system is the tool to achieve it. As the final step in the operationalisation the features for care chain effectiveness are in turn used to analyse today's practices. Empirically, the

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research is based on qualitative data from a single case study with multiple units of analysis. It includes four care units at one of Sweden's university hospitals, where the data is gathered through interviews, insight into management systems and document analysis. One of the main results is the 21 areas identified for analysing today's practices by means of features for care chain effectiveness. Another main result is the four important concepts revealed through the operationalisation: Lead time - the episode of care from order to delivery as the amount of time for patient cases between first

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contact with healthcare and the last. Patient order fulfilment - fulfilment of patients' needs, broken down into several smaller steps performed over time within different care units in one or several organisations, consisting of five sub-processes - order handling, diagnosis, treatment, follow-up, and discharge. True demand - patients' needs that is to be met and thus sets what care to deliver, i.e. the production plan and the subordinate resource plan. System boundaries - defines which care units to include when focusing on the care delivery system's performance as a whole and should be more

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important than the performance and productivity of each individual care unit. A number of direct suggestions for care chain improvement can also be found in the concluding remarks, for example that objectives linked to economic influx or penalty narrow the system and that lead time data on an aggregated level is needed to cover episodes of care. The theoretical contribution of the dissertation is to the field of logistics management through the methodological development of using these theories in a new context. The managerial contribution is to healthcare managers

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through providing opportunities to improve care chains primarily by means of a greater understanding of care delivery systems.

Logistics 4.0

A Process of Ongoing Improvement

Risk Management in Port Operations, Logistics and Supply Chain Security

Operations Rules

The Essentials of Supply Chain Management

Theory, Practice, and Modeling

Improving the Environmental Sustainability of Logistics

In a context of global competition, the optimization of logistics systems is

inescapable. Logistics Systems: Design and Optimization falls within this perspective and presents twelve chapters that well illustrate the variety and the complexity of logistics activities. Each chapter is written by recognized researchers who have been commissioned to survey a specific topic or emerging area of logistics. The first chapter, by Riopel, Langevin, and Campbell, develops a framework for the entire book. It classifies logistics decisions and highlights the relevant linkages to logistics decisions. The

intricacy of these linkages demonstrates how thoroughly the decisions are interrelated and underscores the complexity of managing logistics activities. Each of the chapters focus on quantitative methods for the design and optimization of logistics systems. This book provides a self-contained, comprehensive and up-to-date presentation of uncertainty theory. The purpose is to equip the readers with an axiomatic approach to deal with uncertainty. For this new edition the entire text has been

totally rewritten. The chapters on chance theory and uncertainty theory are completely new. Mathematicians, researchers, engineers, designers, and students will find this work a stimulating and useful reference.

Risk Management in Port Operations, Logistics and Supply Chain Security is the first book to address security, risk and reliability issues in maritime, port and supply chain settings. In particular this title tackles operational challenges that port, shipping, international logistics

and supply chain operators face today in view of the new security regulations and the requirements of increased visibility across the supply chain.

The field of logistics continues to develop at a remarkable pace. Until recently, logistics was barely considered in long-term plans, but its strategic role is now recognised and lies at the heart of long-term plans in almost every business. Reasons for this change include: communications and information technology offer new opportunities; world trade

grows; competition forces operations to adopt new practices and become evermore efficient; and the concern for the environment increases. Add to this the increased emphasis on consumer satisfaction, flexible operations and time compression, and it's clear that getting logistics right is important. This 7th edition of Global Logistics, edited by Stephen Rinsler and Donald Waters, has been thoroughly revised and updated to reflect the latest trends, best practices, and cutting-edge thinking on global

logistics. It provides guidance on important topics, including agile supply chains, IT, sustainability and performance management, collaboration, outsourcing and humanitarian logistics. This edition of Global Logistics provides new chapters on supply chain trends and strategies, fulfilling customer needs, and supply chain vulnerability. There are also dedicated new chapters on China and Central and Eastern Europe to assess developments across the globe. This edition serves as a forum for acknowledged

sector specialists to discuss key logistics issues and share their authoritative views. The new edition introduces new contributors, including leading thinkers from international universities and businesses. Global Logistics is an invaluable source of guidance and practical advice for students, managers and practitioners, who will find it an essential text that also includes online resources. Online resources available include a student manual with key learning outcomes for each

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chapter.

Applications and Cases

Concepts and Models

*Theory, Algorithms, and Applications for
Logistics and Supply Chain Management*

Mapping Violence in Global Trade

*Foundations, Interpretations, and New
Aspects*

Global Logistics

*Logistics and Supply Chain Management ePub
eBook*

Designed for students, young managers and seasoned
practitioners alike, this handbook explains the nuts and bolts

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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.

Cost is considered a crucial factor in much decision-making in private and public organisations. Therefore, the ability to calculate total estimated costs for different alternatives is important. However, such total cost analysis is a challenging task. Providing students with the knowledge and skills needed for total cost analysis is therefore relevant in several disciplines within higher education. Within logistics management, total cost analysis is for decades by several scholars regarded as a 'cornerstone', a fundamental part of

the discipline. However, except for describing the basic steps and presumptions, the literature does not give much support concerning how to conduct such analyses, or which the difficulties associated with total cost analysis are. This blank space in literature is not limited to the logistics discipline, it stretches throughout many disciplines. Neither does literature cover how to teach to support students' learning of total cost analysis. Hence, to address the lack of research, the purpose of this thesis was formulated as follows: To contribute to the understanding of conducting, learning, and teaching total cost analysis. Three research questions were shaped to address each part of the purpose: conducting, learning and teaching.

RQ1 What challenges are connected to the process of conducting total cost analysis? RQ2 What thresholds are

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there for learning how to conduct total cost analysis? RQ3 How can total cost learning be supported by suitable educational methods? The research questions are connected to each other in the sense that the challenges of conducting total cost analysis (RQ1) indicate within which areas total cost learning is difficult, and thereby where thresholds are to be investigated (RQ2). Further, knowledge about the learning thresholds is needed to discuss suitable educational activities (RQ3). The research was conducted by a combination of literature reviews and multiple case studies at four Higher Education Institutions, where both teachers and students were approached. The findings for RQ1 were developed in an abductive procedure walking back and forth between literature and cases. A twelve-step process for total cost

analysis was defined, and specific challenges associated for each of these steps. Regarding learning thresholds (RQ2), perceived difficulties with learning total cost analysis were identified in the case studies. These difficulties were then analysed against threshold characteristics available in literature. This resulted in the identification of four total cost learning thresholds. Literature on constructivist-based teaching was used to suggest teaching methods to support learning (RQ3). These types of activities proved to match the ones most appreciated by teachers and students in the studied cases. The twelve-step process provides a more structured and holistic view of total cost analysis than previously available in the logistics literature. The description of challenges with conducting total cost analysis is novel, not

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only within logistics, but also generally, why this is a major contribution from this research. Aspects regarding teaching and learning connected to logistics, and to total cost analysis, are very sparsely addressed in literature, which makes the findings concerning learning thresholds and teaching methods valuable. The findings are believed to be useful for different stakeholders. First and foremost, teachers can use the findings for designing programs, courses, and course modules which cover the important aspects of total cost analysis with help from educational activities supporting the students' learning. Second, for organisations where total cost analyses are conducted, the suggested process with its steps and associated challenges can be used to achieve better total cost analyses, and in turn more substantiated decisions. In

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the longer perspective, better education on total cost analysis at Higher Education Institutions will further strengthen the total cost competence in organisations, thereby improving the total cost-related decision making. Total cost analysis is not unique for the logistics discipline. Although focus in the study has been on Higher Education Institutions providing logistics courses, the findings are to a high extent believed to be relevant also for other disciplines dealing with total cost analysis.

This exploration of a notorious mathematical problem is the work of the man who discovered the solution. Written by an award-winning professor at Stanford University, it employs intuitive explanations as well as detailed mathematical proofs in a self-contained treatment. This unique text and reference

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is suitable for students and professionals. 1966 edition. Copyright renewed 1994.

Every time you wheel a shopping cart through one of Walmart's more than 10,000 stores worldwide, or swipe your credit card or purchase something online, you enter a mind-boggling logistical regime. Even if you've never shopped at Walmart, its logistics have probably affected your life. The Rule of Logistics makes sense of its spatial and architectural ramifications by analyzing the stores, distribution centers, databases, and inventory practices of the world's largest corporation. The Rule of Logistics tells the story of Walmart's buildings in the context of the corporation's entire operation, itself characterized by an obsession with logistics. Beginning with the company's founding in 1962, Jesse LeCavalier

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reveals how logistics—as a branch of knowledge, an area of work, and a collection of processes—takes shape and changes our built environment. Weaving together archival material with original drawings, LeCavalier shows how a diverse array of ideas, people, and things—military theory and chewing gum, Howard Dean and satellite networks, Hudson River School painters and real estate software, to name a few—are all connected through Walmart's logistical operations and in turn are transforming how its buildings are conceptualized, located, built, and inhabited. A major new contribution to architectural history and theory, *The Rule of Logistics* helps us understand how retailing today is changing our bodies, brains, buildings, and cities and predicts what future forms architecture might take when shaped by systems

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that exceed its current capacities.

The Definitive Guide for the Business Professional

Delivering Customer Value through Flexible Operations

Understanding care chain effectiveness through logistics

management theories and systems theory

The Deadly Life of Logistics

Quantum Theory and Pictures of Reality

Adaptive Supply Chain Management

The Logic of Logistics

While social scientists and historians have been exchanging ideas for a long time, they have never developed a proper dialogue about social theory. William H. Sewell Jr. observes that on questions of theory the

communication has been mostly one way: from social science to history. Logics of History argues that both history and the social sciences have something crucial to offer each other. While historians do not think of themselves as theorists, they know something social scientists do not: how to think about the temporalities of social life. On the other hand, while social scientists' treatments of temporality are usually clumsy, their theoretical sophistication and penchant for structural accounts of social life could offer much to historians. Renowned for his work at the crossroads of history, sociology, political science, and anthropology, Sewell

argues that only by combining a more sophisticated understanding of historical time with a concern for larger theoretical questions can a satisfying social theory emerge. In *Logics of History*, he reveals the shape such an engagement could take, some of the topics it could illuminate, and how it might affect both sides of the disciplinary divide.

One of the most important key technologies for digital communication systems as well as storage media is coding theory. It provides a means to transmit information across time and space over noisy and unreliable communication channels. *Coding Theory: Algorithms,*

Architectures and Applications provides a concise overview of channel coding theory and practice, as well as the accompanying signal processing architectures. The book is unique in presenting algorithms, architectures, and applications of coding theory in a unified framework. It covers the basics of coding theory before moving on to discuss algebraic linear block and cyclic codes, turbo codes and low density parity check codes and space-time codes. Coding Theory provides algorithms and architectures used for implementing coding and decoding strategies as well as coding schemes used in practice especially in communication systems. Feature of the book

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include: Unique presentation-like style for summarising main aspects Practical issues for implementation of coding techniques Sound theoretical approach to practical, relevant coding methodologies Covers standard coding schemes such as block and convolutional codes, coding schemes such as Turbo and LDPC codes, and space time codes currently in research, all covered in a common framework with respect to their applications. This book is ideal for postgraduate and undergraduate students of communication and information engineering, as well as computer science students. It will also be of use to engineers working in the industry who want to know more

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about the theoretical basics of coding theory and their application in currently relevant communication systems

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

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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

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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 computer recognition systems are nowadays one of the most promising directions in artificial intelligence.

This book is the most comprehensive study of this field. It contains a collection of 78 carefully selected articles contributed by experts of pattern recognition. It reports on current research with respect to both methodology and

applications. In particular, it includes the following sections: Biometrics, Features, learning and classifiers, Image processing and computer vision, Knowledge acquisition based on reasoning methods Medical applications, Miscellaneous applications, This book is a great reference tool for scientists who deal with the problems of designing computer pattern recognition systems. Its target readers can be as well researchers as students of computer science, artificial intelligence or robotics.

City Logistics 2

Practical Execution, Learning, and Teaching in Higher

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Handbook of Quantitative Supply Chain Analysis

Logistics management operationalised in a healthcare
context

Algorithms, Architectures and Applications

Logistics Transportation Systems

Logistics Systems: Design and Optimization

This contributed volume presents selected research
papers from the 8th workshop on Logistics and
Supply Chain Management, which was held in
October 2013 in Berkeley, California. It focuses on
the topical issue of quantitative approaches in

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logistics and supply chain management, mainly covering facility location and location routing; vehicle routing and scheduling; courier, express and parcel service network design; healthcare logistics as well as logistics risk management. The target audience primarily comprises research experts and practitioners in the field, but the book will also be beneficial to graduate students.

Adaptive Supply Chain Management develops new viewpoints on the SCM goal paradigm, problem semantics, and decision-making support. Drawing upon years of research and practical experience, and using numerous examples, the authors unite

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conceptual considerations of supply chains with a constructive level of engineering and solutions to real-world problems. Adaptive Supply Chain Management provides advanced insights into dynamics, complexity, and uncertainty in supply chains from the perspectives of systems analysis, control theory, and operations research. It also considers supply chain adaptability, stability, and crisis-resistance. Providing readers with a comprehensive view of advanced SCM concepts, constructive mathematical techniques and models, Adaptive Supply Chain Management is an invaluable text for practitioners and researchers who specialize

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in SCM and operations.

The Handbook is a comprehensive research reference that is essential for anyone interested in conducting research in supply chain. Unique features include: -A focus on the intersection of quantitative supply chain analysis and E-Business, -Unlike other edited volumes in the supply chain area, this is a handbook rather than a collection of research papers. Each chapter was written by one or more leading researchers in the area. These authors were invited on the basis of their scholarly expertise and unique insights in a particular sub-area, -As much attention is given to looking back as to looking

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forward. Most chapters discuss at length future research needs and research directions from both theoretical and practical perspectives, -Most chapters describe in detail the quantitative models used for analysis and the theoretical underpinnings; many examples and case studies are provided to demonstrate how the models and the theoretical insights are relevant to real situations, -Coverage of most state-of-the-art business practices in supply chain management.

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

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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.

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New Business Concepts and Applications

Walmart and the Architecture of Fulfillment

Audiences, Codes, and Ecologies

Managing the Supply Chain

Modeling in the E-Business Era

Designing and Managing the Supply Chain 3e with
Student CD

Transportation Engineering

Fierce competition in today's global market provides a powerful motivation for developing ever more sophisticated logistics systems. This book, written for the logistics manager and researcher, presents a survey of the modern theory and application of logistics. The

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goal of the book is to present the state-of-the-art in the science of logistics management. As a result, the authors have written a timely and authoritative survey of this field that many practitioners and researchers will find makes an invaluable companion to their work. The subject is approached mainly from a historical point of view, highlighting the original ideas which enabled the transfer from the macroscopic to the microscopic level. New aspects are covered in connection with locality, wave-particle duality, the time operator, the uncertainty of time, the role of the observer. A review of recently proposed radical new experiments is also given. Annotation copyrighted by

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Book News, Inc., Portland, OR

This volume of three books presents recent advances in modelling, planning and evaluating city logistics for sustainable and liveable cities based on the application of ICT (Information and Communication Technology) and ITS (Intelligent Transport Systems). It highlights modelling the behaviour of stakeholders who are involved in city logistics as well as planning and managing policy measures of city logistics including cooperative freight transport systems in public-private partnerships. Case studies of implementing and evaluating city logistics measures in terms of economic, social and environmental benefits from major cities

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around the world are also given.

An expert offers a set of rules that will help managers achieve dramatic improvements in operations performance. In recent years, management gurus have urged businesses to adopt such strategies as just-in-time, lean manufacturing, offshoring, and frequent deliveries to retail outlets. But today, these much-touted strategies may be risky. Global financial turmoil, rising labor costs in developing countries, and huge volatility in the price of oil and other commodities can disrupt a company's entire supply chain and threaten its ability to compete. In *Operations Rules*, David Simchi-Levi identifies the crucial element in a company's

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success: the link between the value it provides its customers and its operations strategies. And he offers a set of scientifically and empirically based rules that management can follow to achieve a quantum leap in operations performance. Flexibility, says Simchi-Levi, is the single most important capability that allows firms to innovate in their operations and supply chain strategies. A small investment in flexibility can achieve almost all the benefits of full flexibility. And successful companies do not all pursue the same strategies. Amazon and Wal-Mart, for example, are direct competitors but each focuses on a different market channel and provides a unique customer value

proposition—Amazon, large selection and reliable fulfillment; Wal-Mart, low prices—that directly aligns with its operations strategy. Simchi-Levi's rules—regarding such issues as channels, price, product characteristics, value-added service, procurement strategy, and information technolog—transform operations and supply chain management from an undertaking based on gut feeling and anecdotes to a science.

Total Cost Analysis in Logistics

Set Theory and the Continuum Hypothesis

Theory, Algorithms, and Applications for Logistics
Management

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The Rule of Logistics

A Quick Course in Simulation Modeling

Logics of History

Coding Theory

In today's environment of tight budgets and even tighter turnarounds, effective supply-chain management has become a core business requirement. Managing the Supply Chain adapts the number one supply-chain book on the college market to examine how professionals can consistently turn supply-chain strategy into a competitive advantage.

This results-based book examines the experiences of today's most accomplished companies to demonstrate supply-chain innovation at work in the marketplace. Effective development and management of a supply chain network is an invaluable source of sustainable advantage in today's turbulent global marketplace, where demand is difficult to predict and supply chains need to be more flexible as a result. This updated 4th edition of the bestselling Logistics and Supply Chain Management is a clear-headed guide to all

the key topics in an integrated approach to supply chains, including:

- ***The link between logistics and customer value.***
- ***Logistics and the bottom line measuring costs and performance.***
- ***Creating a responsive supply chain.***
- ***Managing the global pipeline.***
- ***Managing supply chain relationships.***
- ***Managing risk in the supply chain.***
- ***Matching supply and demand.***
- ***Creating a sustainable supply chain.***
- ***Product design in the supply chain.***

This book describes a wide range real-case

applications of Multi-Criteria Decision Making (MCDM) in maritime related subjects including shipping, port, maritime logistics, cruise ports, waterfront developments, and shipping finance, etc. In such areas, researchers, students and industrialists, in general, felt struggling to find a step-by-step guide on how to apply MCDM to formulate effective solutions to solving real problems in practice. This book focuses on the in-depth analysis and applications of the most well-known MDCM methodologies in the

aforementioned areas. It brings together an eclectic collection of twelve chapters which seek to respond to these challenges. The book begins with an introduction and is followed by an overview of major MCDM techniques. The next chapter examines the theory of analytic hierarchy process (AHP) in detail and investigates a fuzzy AHP (FAHP) approach and its capability and rationale in dealing with decision problems of ambiguous information. Chapter 4 proposes a generic methodology to identify the key factors

influencing green shipping and to establish an evaluation system for the assessment of shipping greenness. In Chapter 5, the authors describe a new function of fuzzy Evidential Reasoning (ER) to improve the vessel selection process in which multiple criteria with insufficient and ambiguous information are evaluated and synthesized. Chapter 6 presents a novel methodology by using an Artificial Potential Field (APF) model and the ER approach to estimate the collision probabilities of monitoring targets for coastal

radar surveillance. Chapter 7 develops the inland port performance assessment model (IPPAM) using a hybrid of AHP, ER and a utility function. The next chapter showcases a challenging approach to address the risk and uncertainty in LNG transfer operations, by utilizing a Stochastic Utility Additives (UTA) method with the help of the philosophy of aggregation-disaggregation coupled with a robustness control procedure. Chapter 9 uses Entropy and Grey Relation Analysis (GRA) to analyze the relative weights of financial

ratios through the case studies of the four major shipping companies in Korea and Taiwan: Evergreen, Yang Ming, Hanjin and Hyundai Merchant Marine. Chapter 10 systemically applies modern heuristics to solving MCDM problems in the fields of operation optimisation in container terminals. Arguing that bunkering port selection is typically a multi-criteria group decision problem, and in many practical situations, decision makers cannot form proper judgments using incomplete and

uncertain information in an environment with exact and crisp values, in Chapter 11, the authors propose a hybrid Fuzzy-Delphi-TOPSIS based methodology with a sensitivity analysis. Finally, Chapter 12 deals with a new conceptual port performance indicators (PPIs) interdependency model using a hybrid approach of a fuzzy logic based evidential reasoning (FER) and a decision making trial and evaluation laboratory (DEMATEL). The transport, storage and handling of goods impose a heavy burden on the environment.

As concern for the environment rises, companies must take more account of the external costs of logistics associated mainly with climate change, air pollution, noise, vibration and accidents. Leading the way in current thinking on environmental logistics, Green Logistics provides a unique insight on the environmental impacts of logistics and the actions that companies and governments can take to deal with them. It is written by a group of leading researchers in the field and provides a comprehensive view of the subject

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for students, managers and policy-makers. Fully updated and revised, the 3rd Edition of Green Logistics takes a more global perspective than previous editions. It introduces new contributors and international case studies that illustrate the impact of green logistics in practice. There is a new chapter on the links between green logistics and corporate social responsibility (CSR) and a series of postscripts examining the likely effects of new developments, such as 3D printing and distribution by drone, on

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the environmental footprint of logistics. Other key topics examined in the book include: carbon auditing of supply chains; transferring freight to greener transport modes; reducing the environmental impact of warehousing; improving the energy efficiency of freight transport; making city logistics more environmentally sustainable; reverse logistics for the management of waste; role of government in promoting sustainable logistics Ideal for use on related courses, the 3rd Edition of Green Logistics includes

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indispensable online supporting materials, including graphics, tables and chapter summaries, as well as technical information and guidelines for teachers and lecturers. The book is endorsed by the Chartered Institute of Logistics and Transport (CILT). The Labour of Making a World Region Multi-Criteria Decision Making in Maritime Studies and Logistics Building Sustainable Supply Chains Strategic Theory for the 21st Century: The Little Book on Big Strategy

Logistical Asia

AnyLogic 7 in Three Days

**Quantitative Approaches in Logistics and
Supply Chain Management**

Today's nonprofit organizations face an environment characterized by higher levels of competition for funding, clients and audiences, talent, and recognition. In addition, they confront greater pressures from donors, government, and the public to demonstrate efficiency, effectiveness, sustainability, and accountability, while intense social needs and problems, as well as the desire for growth, drive them to expand their programs and activities. Collectively, these challenges go to the heart of fundamental issues of mission

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and strategy. Integrating Mission and Strategy for Nonprofit Organizations applies and adapts the core body of general management knowledge about mission, strategy, and execution to help nonprofit leaders deal with the special challenges they face. It strives to draw on this knowledge in a way that does not dilute or oversimplify, and at the same time recognizes the unique features of the nonprofit or voluntary sector. James A. Phillis develops an action-oriented framework that combines rigorous analysis with the practical challenge of execution and change. In addition to helping nonprofit leaders think through important decisions and make concrete choices, the book also provides a shared language and a discipline that can serve as the basis for more productive discussions between the individuals who

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lead nonprofits, the business executives who serve on their boards, and the philanthropists who support their organizations and programs. This last objective is critical, because too often nonprofit leaders and board members complain that they can't reap the benefits of the expertise of their supporters, funders, and volunteers from the business sector. Phills suggests that this is often the result of an inability to speak the same language and draw on a common understanding of key concepts, such as competition, strategy, and vision.

Proceedings of the 8th Workshop on Logistics and Supply Chain Management, Berkeley, California, October 3rd and 4th, 2013