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High Performance in Hospital Management
 Life Cycle Inventory Analysis
 Principles, Concepts and Techniques
 Traditional, Latest, and Smart Views
 System Dynamics
 Fundamentals of Business Process Management
 The Art and Science of Sustaining Military Operations
 Competing Through Supply Chain Management
 The Profitable Supply Chain
 Analysis and Algorithms for Service Parts Supply Chains
 When You Are Down to Four, Order More
 Analytics, Operations, and Strategic Decision Making in the Public Sector
 Essential Operations Management
 Inventory Management
 MRP II
 Theory and Application of Business and Management Principles
 Supply Chain Engineering
 Physical Asset Management
 Principles, Concepts and Techniques
 When You Are Down to Four, Order More
 10th International Conference, ICCL 2019, Barranquilla, Colombia, September 30 - October 2, 2019, Proceedings
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High Performance in Hospital Management Springer

Physical asset management is the management of fixed or non-current assets such as equipment and plant. Physical Asset Management presents a systematic approach to the management of these assets from concept to disposal. The general principles of physical asset management are discussed in a manner which makes them accessible to a wide audience, and covers all stages of the asset management process, including: initial business appraisal; identification of fixed asset needs; financial evaluation; logistic support analysis; life cycle costing;

maintenance strategy; outsourcing; cost-benefit analysis; disposal; and renewal.

Physical Asset Management addresses the needs of existing and potential asset managers, and provides an introduction to asset management for professionals in related disciplines, such as finance. The book provides both an introduction and a convenient reference work, covering all the main areas of physical asset management.

Life Cycle Inventory Analysis Springer
 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.

Principles, Concepts and Techniques

Springer Science & Business Media

The aim of this book is to cover various aspects of the Production and Operations Analysis. Apart from the introduction to basic understanding of each topic, the book will also provide insights to various conventional techniques as well as, various other mathematical and nature-based techniques extracted from the existing literature. Concepts like smart factories, intelligent manufacturing, and various techniques of manufacturing will also be included. Various types of numerical examples will also be presented in each chapter and the descriptions will be done in lucid style with figures, point-wise descriptions, tables, pictures to facilitate easy understanding of the subject.

Traditional, Latest, and Smart Views

Principles of Inventory Management When You Are Down to Four, Order More Structured for optimal use as a clinical reference and text, this comprehensive work reviews effective stress management techniques and their applications for treating psychological problems and enhancing physical health and performance. Leading experts present in-depth descriptions of progressive relaxation, hypnosis, biofeedback, meditation, cognitive methods, and other therapies. Tightly edited chapters examine each method's theoretical and empirical underpinnings and provide step-by-step guidelines for assessment and implementation, illustrated with detailed case examples. The volume also explains basic mechanisms of stress and relaxation and offers research-based guidance for improving treatment outcomes.

System Dynamics Bloomsbury Publishing

This book is primarily intended to serve as a research-based textbook on sustainable supply chains for graduate programs in Business, Management, Industrial Engineering, and Industrial Ecology, but it should also be of interest for researchers in the broader sustainable supply chain space, whether from the operations management and industrial engineering side or more from the industrial ecology and life-cycle assessment side. Finding efficient solutions towards a more sustainable supply chain is increasingly

important for managers, but clearly this raise difficult questions, often without clear answers. This book aims to provide insights into these kinds of questions for students and practitioners, based on the latest academic research.

Fundamentals of Business Process Management Springer

The goal of Inventory Management will be to explain the dynamics of inventory management's principles, concepts, and techniques as they relate to the entire supply chain (customer demand, distribution, and product transformation processes). The interrelationships of all functions will be defined. The book concentrates on understanding the many ramifications of inventory management. In today's competitive business environment, inventory management has proven to be most critical, and this book is directed to the management of inventory to assist in better understanding the body of knowledge required to operate in a competitive world. Almost all functions such as sales, engineering, and accounting have an impact and are impacted by inventory management. The book will assist in the training of students as well as APICS CPIM (Certified in Production and Inventory Management) candidates. As such it will not only be a textbook, but also a desk reference for those employees responsible for controlling inventories, and thereby assist in reducing cost, improving customer service, and maximizing capacity. Each chapter concludes with a case study and suggested solution. The case studies tell the story of a growing company, Smith Industries, and the related inventory management problems it had to address. The problems addressed relate to the subject matter of the chapter.

The Art and Science of Sustaining Military Operations Apress

This book focuses on the relevant subjects in the curriculum of an MBA program. Covering many different fields within business, this book is ideal for readers who want to prepare for a Master of Business Administration degree. It provides discussions and exchanges of information on principles, strategies, models, techniques, methodologies and applications in the business area.

Competing Through Supply Chain Management Springer

Inventories are prevalent everywhere in the commercial world, whether it be in retail stores, manufacturing facilities, government stockpile material, Federal Reserve banks, or even your own household. This textbook examines basic mathematical techniques used to sufficiently manage inventories by using

various computational methods and mathematical models. The text is presented in a way such that each section can be read independently, and so the order in which the reader approaches the book can be inconsequential. It contains both deterministic and stochastic models along with algorithms that can be employed to find solutions to a variety of inventory control problems. With exercises at the end of each chapter and a clear, systematic exposition, this textbook will appeal to advanced undergraduate and first-year graduate students in operations research, industrial engineering, and quantitative MBA programs. It also serves as a reference for professionals in both industry and government worlds. The prerequisite courses include introductory optimization methods, probability theory (non-measure theoretic), and stochastic processes.

The Profitable Supply Chain Springer

MRP II explores the principles of MRP II systems, and how the manufacturer can utilize and institute them effectively for maximum profit. The book will serve as a valuable professional reference for manufacturers instituting or utilizing an MRP II scheduling system. It will also be a valuable teaching tool for the 2- and 4-year college or university programs, a reference for APICS certification review, and continuing education programs. There are examples throughout, as well as extensive end-of-chapter case studies and their solutions. A glossary of terms is also included.

Analysis and Algorithms for Service Parts Supply Chains Guilford Press

On industrial procurement, a Brit view.

When You Are Down to Four, Order More Springer

The Profitable Supply Chain: A Practitioner's Guide provides a first-principles approach to understanding the drivers of today's successful supply chains, covering everything from inventory and demand management to network planning to technology-driven improvements in efficient supply chain management. Apart from introducing the latest concepts and methods, supply chain expert and consultant Ramnath Ganesan provides numerous real-world examples and cases to clarify how his process-oriented approach can be applied to specific situations, together with spreadsheet functions when appropriate. Practitioners will be especially interested, for example, in the sections on assessing external factors for demand, modifying network routings in response to rising fuel prices, designing a framework for identifying issues and tracking actions,

and instituting financial measures to track performance. The book addresses situations found in such industries as consumer electronics, healthcare, telecommunications, consumer goods, industrial equipment, building materials, and many others. No matter the industry, all firms trading products face operational challenges in producing and/or moving goods in a geographically dispersed global network while fulfilling customer demand in a timely and cost-efficient manner. Such demands can only be supported by a rigorous approach that aligns supply with demand, an approach this book outlines clearly and simply. The Profitable Supply Chain will prove a valuable reference for production schedulers, plant managers, material managers, demand planners, and supply chain executives. Among other things, it covers the following topics in great depth: How to design and implement an efficient, scalable supply chain management process from the ground up—or improve the one you have. How to maintain adequate inventory levels while reducing the cost of supplying products. How to implement specific metrics that help improve supply chain performance and forecast accuracy. How to gain competitive advantages through the latest advances in IT architecture and software. This book will also be of immense value to information technology professionals. That includes enterprise application developers charged with designing and implementing a supply chain IT architecture, as well as those administering and maintaining an enterprise resource planning or advance planning system. There are few areas in business more ripe for cost reductions than in the supply chain. The Profitable Supply Chain is therefore your go-to resource for making supply chain operations leaner, more efficient, and ultimately far more profitable than they are now.

Analytics, Operations, and Strategic Decision Making in the Public Sector

Springer Science & Business Media

This book covers the scope of supply chain and logistics, which has continued to grow with a rapid speed. The book includes core aspects of supply chain and logistics philosophy and practice. The authors then cover the general principles of supply chain and logistics that can be applied in countries throughout the world. Where concepts cannot be generalized, they are based primarily on a European model. The authors have also added some international material and examples from China, Pakistan, India, and the USA. The book is intended to help in the quest of supply chain and logistics to reduce cost

and improve service, as well as to keep up-to-date the different facets of supply chain and logistics in a global market. In addition, this book helps candidates to who are undertaking examinations for universities and professional institutes, and bachelor and master students who are studying for degrees in supply chain management. In addition, the book covers technical terminologies, definitions, and a supply chain dictionary.

Essential Operations Management

Springer Science & Business Media

In this book an international panel of authors offer a clear, step-by-step approach to Small Incision Lenticule Extraction (SMILE), a new refractive procedure approved for the treatment of myopia and astigmatism that is a truly minimally invasive key-hole type surgery. The book opens by discussing important fundamentals of the technology, followed by a close look at the healing response. The current surgical techniques are then described in detail with the aim of providing easy-to-understand guidance for all who wish to perform SMILE surgery or to identify solutions to pitfalls that may arise during the learning curve. Further sections cover the clinical science relating to SMILE (explaining underlying principles), discuss ongoing investigations to further expand the spectrum of SMILE surgery and offer suggestions on how to market the procedure and communicate it to the prospective patient. This guide is “a must” for everyone who wishes to enter the exciting world of SMILE.

Inventory Management Springer Science & Business Media

Optimization techniques have developed into a significant area concerning industrial, economics, business, and financial systems. With the development of engineering and financial systems, modern optimization has played an important role in service-centered operations and as such has attracted more attention to this field. Meta-heuristic hybrid optimization is a newly development mathematical framework based optimization technique. Designed by logicians, engineers, analysts, and many more, this technique aims to study the complexity of algorithms and problems. Meta-Heuristics Optimization Algorithms in Engineering, Business, Economics, and Finance explores the emerging study of meta-heuristics optimization algorithms and methods and their role in innovated real world practical applications. This book is a collection of research on the areas of meta-heuristics optimization algorithms in engineering, business, economics, and finance and

aims to be a comprehensive reference for decision makers, managers, engineers, researchers, scientists, financiers, and economists as well as industrialists.

MRP II Springer

* Provides a broad overview of modeling approaches and solution methodologies for addressing inventory problems, particularly the management of high cost, low demand rate service parts found in multi-echelon settings * The text may be used in a variety of courses for first-year graduate students or senior undergraduates, or as a reference for researchers and practitioners * A background in stochastic processes and optimization is assumed

Theory and Application of Business and Management Principles CRC Press

This book describes the fundamentals of Supply Chain Management in clear and concise terms. It explains why in the near future real competition is going to be between supply chains and what the consequences will be. Managers and decision-makers will be able to build on their business’s competitive advantage with the essentials provided in this work. The focus here is upon what you really need to know in order to optimally manage your processes in procurement, manufacturing, warehousing and logistics. In addition to a wealth of illustrations and examples, valuable suggestions for further expansive reading are included. Essential insights are provided into how to analyse and evaluate the supply chain, based upon key aspects from research and practice, which helps readers to initiate their own optimisation processes.

Supply Chain Engineering Springer

A broad general introduction to all essential aspects of logistics and supply chain management, set within the wider business context. The book uses well-developed pedagogy and numerous case studies, guiding the reader through the subject by retaining a strong focus on the application of theory and practical situations.

Physical Asset Management Springer

This book constitutes the proceedings of the 10th International Conference on Computational Logistics, ICCL 2019, held in Barranquilla, Colombia, in September/October 2019. The 27 papers included in this book were carefully reviewed and selected from 49 submissions. They were organized in topical sections named: freight transportation and urban logistics; maritime and port logistics; vehicle routing problems; network design and distribution problems; and selected topics in decision support systems and ICT tools.

Principles, Concepts and Techniques

Springer Science & Business Media

Supply Chain Engineering considers how modern production and operations management techniques can respond to the pressures of the competitive global marketplace. It presents a comprehensive analysis of concepts and models related to outsourcing, dynamic pricing, inventory management, RFID, and flexible and re-configurable manufacturing systems, as well as real-time assignment and scheduling processes. A significant part is also devoted to lean manufacturing, line balancing, facility layout and warehousing techniques. Explanations are based on examples and detailed algorithms while discarding complex and unnecessary theoretical minutiae. All examples have been carefully selected from an industrial application angle. This book is written for students and professors in industrial and systems engineering, management science, operations management and business. It is also an informative reference for managers looking to improve the efficiency and effectiveness of their production systems.

When You Are Down to Four, Order More Springer Science & Business Media

The focus of Supply Chain Engineering is the engineering design and planning of supply chain systems. There exists a very large variety of supply chain system types, all with different goals, constraints, and decisions, but a systematic approach for the design and planning of any supply chain can be based on the principles and methods of system engineering. In this book, author Marc Goetschalckx presents material developed at the Georgia Tech Supply Chain and Logistics Institute, the largest supply chain and logistics research and education program in the world. The book can be roughly divided into four sections. The first section focuses on data management. Since most of planning and design requires making decisions today so that supply chain functions can be executed efficiently in the future, this section introduces forecasting principles and techniques. The second section of the book focuses on transportation systems. First, the characteristics of transportation assets and infrastructure are shown. Then four chapters focus on the planning of transportation activities depending on who controls the transportation assets. The third section of the book is focused on storing goods, and the last section of the

book is focused on supply chain systems that consider simultaneously procurement, production, and transportation and inventory as well as the design of the supply chain infrastructure or network design. In each chapter, first a model of the process being studied is developed followed by a description of practical solution algorithms. More advanced material is typically described in appendices. This makes it possible to use an integrated, breath-first treatment of supply chain systems by using the initial material in each chapter. A more in depth treatment of a specific topic or process can be found towards the end of each chapter. End-of-chapter exercises are included throughout. This text is suitable for several target audiences. The first target is a course for upper-level undergraduate students on supply chains. The second target is the use in a capstone senior design project in the supply chain area. The third target is an introductory course on supply chains either in a master of engineering or a master of business administration program, and the final audience consists of students attending logistics or supply chain post-graduate or continuing education courses.

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