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# Principles Of Inventory Management Springer

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Traditional, Latest, and Smart Views

Principles of Inventory Management

Essential Operations Management

Comprehensive Logistics

Creating Market-Winning Strategies Through Supply Chain Partnerships

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A Practitioner's Guide

Principles of Inventory Management

What You Really Need to Know to Manage Your Processes in Procurement, Manufacturing, Warehousing and Logistics

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A Decision-Oriented Introduction to the Creation of Value

High Performance in Hospital Management

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The Art and Science of Sustaining Military Operations

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Pyomo - Optimization Modeling in Python

Operations, Logistics and Supply Chain Management

Operational Logistics

The Practice of Supply Chain Management: Where Theory and Application Converge

The Profitable Supply Chain

Intelligence Computation and Evolutionary Computation

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*Principles Of Inventory Management*  
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## **VALENCIA ROJAS**

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Principles of Inventory Management  
When You Are Down to Four,  
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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.

**Traditional, Latest, and Smart Views** Springer Science & Business Media

Operational Logistics: The Art and Science of Sustaining Military Operations explores military logistics in terms of the theoretical foundations of operational logistics (OpLog) and its applications. The theoretical foundations are examined with regard to two dimensions. First, the artistic or qualitative aspects of contemporary logistics are looked at in the context of the

operational level of war. These OpLog aspects include principles, imperatives and tenets, which are stated and analyzed. The second dimension relates to the scientific aspects of logistics. It is manifested by a formal network model that represents the structural and operational features of an OpLog system. Hence the book examines both artistic and scientific dimensions of military logistics and integrates the respective qualitative and quantitative aspects into a unified and definitive presentation of operational logistics. Chapter 1 presents a general introduction to military logistics. Chapter 2 discusses the general structure and characteristics of logistics and describes its three levels - strategic, operational and tactical. Chapter 3 focuses on Operational Logistics (OpLog). Chapter 4 deals with the logistics planning process. Chapter 5 addresses the issue of logistics information. Chapter 6 deals with forecasting logistics demands. Chapter 7 introduces the first version of the logistics network model. Chapter 8 addresses an important property of an OpLog system - Flexibility. Chapter 9 discusses two major (and dual) issues in OpLog practice: force accumulation and medical treatment and evacuation. Chapter 10 presents an inter-temporal network optimization model that is designed to determine deployment and employment of the support chain in an OpLog system.

*Principles of Inventory Management* Springer Science & Business Media

Life Cycle Inventory (LCI) Analysis is the second phase in the Life Cycle Assessment (LCA) framework. Since the first attempts to formalize life cycle assessment in the early 1970, life cycle inventory analysis has been a central part. Chapter 1

“Introduction to Life Cycle Inventory Analysis“ discusses the history of inventory analysis from the 1970s through SETAC and the ISO standard. In Chapter 2 “Principles of Life Cycle Inventory Modeling”, the general principles of setting up an LCI model and LCI analysis are described by introducing the core LCI model and extensions that allow addressing reality better. Chapter 3 “Development of Unit Process Datasets” shows that developing unit processes of high quality and transparency is not a trivial task, but is crucial for high-quality LCA studies. Chapter 4 “Multi-functionality in Life Cycle Inventory Analysis: Approaches and Solutions” describes how multi-functional processes can be identified. In Chapter 5 “Data Quality in Life Cycle Inventories”, the quality of data gathered and used in LCI analysis is discussed. State-of-the-art indicators to assess data quality in LCA are described and the fitness for purpose concept is introduced. Chapter 6 “Life Cycle Inventory Data and Databases“ follows up on the topic of LCI data and provides a state-of-the-art description of LCI databases. It describes differences between foreground and background data, recommendations for starting a database, data exchange and quality assurance concepts for databases, as well as the scientific basis of LCI databases. Chapter 7 “Algorithms of Life Cycle Inventory Analysis“ provides the mathematical models underpinning the LCI. Since Heijungs and Suh (2002), this is the first time that this aspect of LCA has been fundamentally presented. In Chapter 8 “Inventory Indicators in Life Cycle Assessment”, the use of LCI data to create aggregated environmental and resource indicators is described. Such indicators include the cumulative energy demand and various water use indicators. Chapter 9 “The Link Between Life

Cycle Inventory Analysis and Life Cycle Impact Assessment” uses four examples to discuss the link between LCI analysis and LCIA. A clear and relevant link between these phases is crucial. *Essential Operations Management* Springer Science & Business Media

This series is dedicated to serving the growing community of scholars and practitioners concerned with the principles and applications of environmental management. Each volume is a thorough treatment of a specific topic of importance for proper management practices. A fundamental objective of these books is to help the reader discern and implement man's stewardship of our environment and the world's renewable resources. For we must strive to understand the relationship between man and nature, act to bring harmony to it, and nurture an environment that is both stable and productive. These objectives have often eluded us because the pursuit of other individual and societal goals has diverted us from a course of living in balance with the environment. At times, therefore, the environmental manager may have to exert restrictive control, which is usually best applied to man, not nature. Attempts to alter or harness nature have often failed or backfired, as exemplified by the results of imprudent use of herbicides, fertilizers, water, and other agents. Each book in this series will shed light on the fundamental and applied aspects of environmental management. It is hoped that each will help solve a practical and serious environmental problem. Robert S. DeSanto East Lyme, Connecticut

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The Ohio State University) and the Natural Hazards Research and Applications Information Center, University of Colorado.

*Comprehensive Logistics* Springer

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.

**Creating Market-Winning Strategies Through Supply Chain Partnerships** Springer Science & Business Media

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.

*Competing Through Supply Chain Management* Springer Science & Business Media

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.

*When You Are Down to Four, Order More* IGI Global

This book covers the broad spectrum of system dynamics methodologies for the modelling and simulation of complex systems: systems thinking, causal diagrams, systems structure of stock and flow diagrams, parameter estimation and tests for confidence building in system dynamics models. It includes a comprehensive review of model validation and policy design and provides a practical presentation of system dynamics modelling.

It also offers numerous worked-out examples and case studies in diverse fields using STELLA and VENSIM. The system dynamics methodologies presented here can be applied to nearly all areas of research and planning, and the simulations provided make the complicated issues more easily understandable. System Dynamics: Modelling and Simulation is an essential system dynamics and systems engineering textbook for undergraduate and graduate courses. It also offers an excellent reference guide for managers in industry and policy planners who wish to use modelling and simulation to manage complex systems more effectively, as well as researchers in the fields of modelling and simulation-based systems thinking.

**Principles, Concepts and Techniques** Guilford Press

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.

A Practitioner's Guide Springer

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.

**Principles of Inventory Management** 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.

**What You Really Need to Know to Manage Your Processes in Procurement, Manufacturing, Warehousing and Logistics** Macmillan International Higher Education

Solid waste management is a global concern, and landfilling remains the predominant management method in most areas of the world. This book provides a comprehensive view of state-of-the-art methods to manage landfills more sustainably, drawing upon more than two decades of research, design, and operational experiences at operating sites across the world. Sustainable landfills implement one or multiple technologies to control and enhance the degradation of waste materials to realize a multitude of potential benefits during or shortly after the landfill's operating phase. This book presents detailed approaches in the development, design, operation, and monitoring of sustainable landfills. Case studies showcasing the benefits and challenges of sustainable landfill technologies are also provided to give the reader additional context. The intent of the book is to serve as a reference guide for regulatory personnel, a practical tool for designers and engineers to build on for site-specific applications of sustainable landfill technologies, and a comprehensive resource for researchers who are continuing to explore new and better ways to more sustainably manage waste materials.

Supply Chain Engineering Springer Science & Business Media

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.

*Inventory Management* 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.

A Decision-Oriented Introduction to the Creation of Value Springer

This third edition, which has been fully updated and now includes

improved and extended explanations, is suitable as a core textbook as well as a source book for industry practitioners. It covers traditional approaches for forecasting, lot sizing, determination of safety stocks and reorder points, KANBAN policies and Material Requirements Planning. It also includes recent advances in inventory theory, for example, new techniques for multi-echelon inventory systems and Roundy's 98 percent approximation. The book also considers methods for coordinated replenishments of different items, and various practical issues in connection with industrial implementation. Other topics covered in Inventory Control include: alternative forecasting techniques, material on different stochastic demand processes and how they can be fitted to empirical data, generalized treatment of single-echelon periodic review systems, capacity constrained lot sizing, short sections on lateral transshipments and on remanufacturing, coordination and contracts. As noted, the explanations have been improved throughout the book and the text also includes problems, with solutions in an appendix.

High Performance in Hospital 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.

Warehouse Management Springer Science & Business Media  
Analytics for the public sector involves the application of operations research and statistical techniques to solve various problems existing outside of the private sector. The use of analytics for the public sector results in more efficient and effective services for the clients and users of these systems. Analytics, Operations, and Strategic Decision Making in the Public Sector is an essential reference source that discusses analytics applications in various public sector organizations, and addresses the difficulties associated with the design and operation of these systems including multiple conflicting objectives, uncertainties and resulting risk, ill-structured nature, combinatorial design aspects, and scale. Featuring research on topics such as analytical modeling techniques, data mining, and statistical analysis, this book is ideally designed for academicians, educators, researchers, students, and public sector professionals including those in local, state, and federal governments; criminal justice systems; healthcare; energy and natural resources; waste management; emergency response; and the military.



**Modelling and Simulation** IGI Global

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.

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

2012 International Conference of Intelligence Computation and Evolutionary Computation (ICEC 2012) is held on July 7, 2012 in Wuhan, China. This conference is sponsored by Information Technology & Industrial Engineering Research Center. ICEC 2012

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is a forum for presentation of new research results of intelligent computation and evolutionary computation. Cross-fertilization of intelligent computation, evolutionary computation, evolvable hardware and newly emerging technologies is strongly encouraged. The forum aims to bring together researchers, developers, and users from around the world in both industry and academia for sharing state-of-art results, for exploring new areas of research and development, and to discuss emerging issues facing intelligent computation and evolutionary computation.

**The Art and Science of Sustaining Military Operations**

Springer Science & Business Media

This book helps readers evaluate and specify the best Warehouse Management System (WMS) for their need. The advice is based on practical knowledge, describing in detail fundamental processes and technologies needed for a basic understanding. New approaches in the structure and design of WMS are presented, along with discussion of the limitations of current systems. The book shows how to operate a simple WMS based on the open-source initiative myWMS.