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KEY=CONTROL - DEACON SANCHEZ

INVENTORY CONTROL

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.

INVENTORY CONTROL

Springer Science & Business Media Modem information technology has created new possibilities for more sophisticated and efficient control of supply chains. Most organizations can reduce their material flow costs substantially. Inventory control techniques are very important components in this development process. A thorough understanding of relevant inventory models is a prerequisite for successful implementation. I hope that this book will be a useful tool in acquiring such an understanding. Nearly ten years ago I wrote a Swedish book on inventory control. This previous book has been used in courses in production and inventory control at several Swed ish engineering schools and has also been appreciated by many practitioners in the field. Positive reactions from many readers have occasionally made me contemplate writing a new book in English on the same subject. Encouraging support of this idea from the Kluwer Editors Fred Hillier and Gary Folven finally convinced me to go ahead with the project. The result is this new book, which in many ways differs from its Swedish prede cessor. Some differences are due to recent developments in inventory control. Fur thermore, this new book is in a sense more theoretical. In particular, it is to a larger extent focused on creating a good basic understanding of different possible ap proaches when analyzing inventory models.

COORDINATING CONTROL OF PRODUCTION-INVENTORY SYSTEMS

MULTI-STAGE PRODUCTION PLANNING AND INVENTORY CONTROL

Springer Science & Business Media This paper treats a two-echelon inventory system. The higher echelon is a single location reffered to as the depot, which places orders for supply of a single com modity. The lower echelon consists of several points, called the retailers, which are supplied by shipments from the depot, and at which random demands for the item occur. Stocks are reviewed and decisions are made periodically. Orders and/or shipments may each require a fixed lead time before reaching their respective desti nations. Section II gives a short literature review of distribution research. Section III introduces the multi-echelon distribution system together with the underlying as sumptions and gives a description of how this problem can be viewed as a Markovian Decision Process. Section IV discusses the concept of cost modifications in a distribution context. Section V presents the test-examples together with their optimal solutions and also gives the characteristic properties of these optimal solutions. These properties then will be used in section VI to give adapted ver sions of various heuristics which were used in assembly experiments previously and which will be tested against the test-examples.

ORDER EXPEDITING IN SUPPLY CHAINS

MODELS, SOLUTION APPROACHES, AND APPLICATIONS

LIT Verlag Münster In the world of business management, most inventory models assume that open orders arrive after a lead time that cannot be controlled by the inventory manager. However, in many real world situations, inventory managers have the option to expedite open orders. Due to the lack of appropriate models, they often have to rely on sub-optimal heuristics to make expediting decisions. This book incorporates an expediting level policy in a periodic-review base-stock inventory model and shows how the optimal solution can be computed. The approaches can be implemented easily and are capable of solving large problems efficiently. While the book is mathematically rigorous, it presents important managerial insights gained from scenario analyses, using data from the service division of a global equipment manufacturer. (Series: Writings on Business Management Practice / Schriften zur betriebswirtschaftlichen Praxis - Vol. 7) [Subject: Business Management, Economics]

THE PHYSICS OF ACCRETION ONTO COMPACT OBJECTS

PROCEEDINGS OF A WORKSHOP HELD IN TENERIFE, SPAIN, APRIL 21-25, 1986

PRINCIPLES OF INVENTORY MANAGEMENT

WHEN YOU ARE DOWN TO FOUR, ORDER MORE

Springer Science & Business Media 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.

INTERFACES

Seeks to improve communication between managers and professionals in OR/MS.

EFFECTIVE OPERATIONS AND PERFORMANCE MANAGEMENT

A&C Black Effective Operations and Performance Management is a multi-author volume, written by practitioners and academics in their respective fields of expertise including Andrew Mayo, Subir Chowdhur, Andrew Cox and Leslie L. Kossoff providing coverage in all aspects of operations and performance within a company. The book addresses measuring and managing operational issues, providing you with a solid platform from which to develop strategies and grow your business. It includes over 30 chapters covering the management of operations and performance. It offers you a rich vein of thought leadership and best practice and practical step-by-step guides on methods to improve operational robustness and measure performance. There are a range of Checklists including Performing a Skills Gap Analysis, The Triple Bottom Line, Using and Understanding Financial Ratios for Analysis, Applying Stress-Testing to Business Continuity Management plus much more...

NAVAL RESEARCH LOGISTICS

LOGISTICS OF PRODUCTION AND INVENTORY

Elsevier Handbook

QFINANCE

THE ULTIMATE RESOURCE

Bloomsbury Publishing QFINANCE: The Ultimate Resource (5th edition) is the first-step reference for the finance professional or student of finance. Its coverage and author quality reflect a fine blend of practitioner and academic expertise, whilst providing the reader with a thorough education in the may facets of finance.

EFFECTIVE OPERATIONS AND PERFORMANCE MANAGEMENT

A&C Black

QFINANCE: THE ULTIMATE RESOURCE, 4TH EDITION

A&C Black QFINANCE: The Ultimate Resource (4th edition) offers both practical and thought-provoking articles for the finance practitioner, written by leading experts from the markets and academia. The coverage is expansive and in-depth, with key themes which include balance sheets and cash flow, regulation, investment, governance, reputation management, and Islamic finance encompassed in over 250 best practice and thought leadership articles. This edition will also comprise key perspectives on environmental, social, and governance (ESG) factors -- essential for understanding the long-term sustainability of a company, whether you are an investor or a corporate strategist. Also included: Checklists: more than 250 practical guides and solutions to daily financial challenges; Finance Information Sources: 200+ pages spanning 65 finance areas; International Financial Information: up-to-date country and industry data; Management Library: over 130 summaries of the most popular finance titles; Finance Thinkers: 50 biographies covering their work and life; Quotations and Dictionary.

QFINANCE

THE ULTIMATE RESOURCE

A&C Black An authoritative reference for financial professionals features coverage of key areas ranging from auditing and banking to insurance and investments, in a volume that includes checklists, biographies, summaries of key works, and quotations.

THE PRODUCTION PLAN IN AN MRP ENVIRONMENT

THEORY AND PRACTICE

STOCHASTIC PROCESSES AND MODELS IN OPERATIONS RESEARCH

IGI Global Decision-making is an important task no matter the industry. Operations research, as a discipline, helps alleviate decision-making problems through the extraction of reliable information related to the task at hand in order to come to a viable solution. Integrating stochastic processes into operations research and management can further aid in the decision-making process for industrial and management problems. Stochastic Processes and Models in Operations Research emphasizes mathematical tools and equations relevant for solving complex problems within business and industrial settings. This research-based publication aims to assist scholars, researchers, operations managers, and graduate-level students by providing comprehensive exposure to the concepts, trends, and technologies relevant to stochastic process modeling to solve operations research problems.

BIBLIOGRAPHIC INDEX

MATHEMATICAL REVIEWS

EFFIZIENTE NACHSCHUBSTEUERUNG IN MEHRSTUFIGEN DISTRIBUTIONSKANÄLEN

BESTANDSMANAGEMENT AUF BASIS INTEGRIERTER INFORMATIONSSYSTEME

Springer-Verlag Mit dem hier präsentierten kundenorientierten Dispositionsansatz leistet der Autor einen Beitrag zur Erschließung bislang noch ungenutzter Rationalisierungspotentiale im Distributionsbereich.

MANUFACTURING & SERVICE OPERATIONS MANAGEMENT

M&SOM.

MODERN PRODUCTION CONCEPTS

THEORY AND APPLICATIONS PROCEEDINGS OF AN INTERNATIONAL CONFERENCE, FERNUNIVERSITÄT, HAGEN, FRG, AUGUST 20-24, 1990

Springer Science & Business Media Modern production concepts can be considered as an essential field of economics nowadays. They help to give valuable insights and thus provide important competitive advantages. There is a broad variety of new approaches to Production Planning and Control (PPC), Just-in-Time (JIT), Flexible Manufacturing Systems (FMS), Flexible Automation (FA), Automated Guided Vehicle Systems (AGVS), Total Quality Control (TQC), and Computer Integrated Manufacturing (CIM), all of which are indispensable cornerstones in this context. This book presents in a condensed and easy-to-comprehend form the different contributions of a group of internationally recommended scientists. The varied approaches to modern production concepts are not only based on theoretical foundations but also go one step further in that they present the implementation of these concepts and methods in detail. This close link with practical aspects will help to illuminate the theoretical material for researchers and students in universities. The book will be of major importance for practitioners involved in solving everyday industrial problems. The interdisciplinary nature of these contributions will help to create a new and valuable perspective on the field of production concepts.

AMERICAN BOOK PUBLISHING RECORD

INVENTORY OPTIMIZATION

MODELS AND SIMULATIONS

Walter de Gruyter GmbH & Co KG In this book . . . Nicolas Vandeput hacks his way through the maze of quantitative supply chain optimizations. This book illustrates how the quantitative optimization of 21st century supply chains should be crafted and executed. . . . Vandeput is at the forefront of a new and better way of doing supply chains, and thanks to a richly illustrated book, where every single situation gets its own illustrating code snippet, so could you. --Joannes Vermorel, CEO, Lokad Inventory Optimization argues that mathematical inventory models can only take us so far with supply chain management. In order to optimize inventory policies, we have to use probabilistic simulations. The book explains how to implement these models and simulations step-by-step, starting from simple deterministic ones to complex multi-echelon optimization. The first two parts of the book discuss classical mathematical models, their limitations and assumptions, and a quick but effective introduction to Python is provided. Part 3 contains more advanced models that will allow you to optimize your profits, estimate your lost sales and use advanced demand distributions. It also provides an explanation of how you can optimize a multi-echelon supply chain based on a simple—yet powerful—framework. Part 4 discusses inventory optimization thanks to simulations under custom discrete demand probability functions. Inventory managers, demand planners and academics interested in gaining cost-effective solutions will benefit from the "do-it-yourself" examples and Python programs included in each chapter.

MANAGEMENT SCIENCE

Issues for Feb. 1965-Aug. 1967 include Bulletin of the Institute of Management Sciences.

ECONOMIC COMPUTATION AND ECONOMIC CYBERNETICS STUDIES AND RESEARCH

ADVANCES IN OPERATIONS RESEARCH

PROCEEDINGS OF EURO II, THE SECOND EUROPEAN CONGRESS ON OPERATIONS RESEARCH, STOCKHOLM, NOVEMBER 29-DECEMBER 1, 1976

North-Holland

CYBERNETICS ABSTRACTS

ENGINEERING DECISION MAKING AND RISK MANAGEMENT

John Wiley & Sons IIE/Joint Publishers Book of the Year Award 2016! Awarded for 'an outstanding published book that focuses on a facet of industrial engineering, improves education, or furthers the profession'. Engineering Decision Making and Risk Management emphasizes practical issues and examples of decision making with applications in engineering design and management Featuring a blend of theoretical and analytical aspects, this book presents multiple perspectives on decision making to better understand and improve risk management processes and decision-making systems. Engineering Decision Making and Risk Management uniquely presents and discusses three perspectives on decision making: problem solving, the decision-making process, and decision-making systems. The author highlights formal techniques for group decision making and game theory and includes numerical examples to compare and contrast different quantitative techniques. The importance of initially selecting the most appropriate decision-making process is emphasized through practical examples and applications that illustrate a variety of useful processes. Presenting an approach for modeling and improving decision-making systems, Engineering Decision Making and Risk Management also features: Theoretically sound and practical tools for decision making under uncertainty, multi-criteria decision making, group decision making, the value of information, and risk management Practical examples from both historical and current events that illustrate both good and bad decision making and risk management processes End-of-chapter exercises for readers to apply specific learning objectives and practice relevant skills A supplementary website with instructional support material, including worked solutions to the exercises, lesson plans, in-class activities, slides, and spreadsheets An excellent textbook for upper-undergraduate and graduate students, Engineering Decision Making and Risk Management is appropriate for courses on decision analysis, decision making, and risk management within the fields of engineering design, operations research, business and management science, and industrial and systems engineering. The book is also an ideal reference for academics and practitioners in business and management science, operations research, engineering design, systems engineering, applied mathematics, and statistics.

A STUDY OF OPERATIONAL AND STRATEGIC PERFORMANCE MEASUREMENT SYSTEMS IN SELECTED WORLD CLASS MANUFACTURING FIRMS

AN EXAMINATION OF LINKAGES FOR COMPETITIVE ADVANTAGE

TIMS/ORSA BULLETIN

EXCELLENCE IN MANAGEMENT SCIENCE PRACTICE

A READINGS BOOK

Taken from the journal Interfaces, this collection of articles shows how to apply management science and operations research models to real-world decision problems. The text includes background and supplementary information and jargon-free articles, written for practitioners and non-specialists

ANALYSIS AND DESIGN OF DISCRETE PART PRODUCTION LINES

Springer Science & Business Media This book provides a complete overview of production systems and describes the best approaches to analyze their performance. Written by experts in the field, this work also presents numerous techniques that can be used to describe, model, and optimize the performance of various types of production lines. The book is intended for researchers, production managers, and graduate students in industrial, mechanical, and systems engineering.

CONTINUOUS-REVIEW POLICIES FOR A MULTI-ECHELON INVENTORY PROBLEM WITH STOCHASTIC DEMAND

JOURNAL OF SOUTHEAST UNIVERSITY

BOOK REVIEW INDEX

A MASTER CUMULATION

Vols. 8-10 of the 1965-1984 master cumulation constitute a title index.

FINANCE INDIA

QUANTITATIVE METHODS IN SUPPLY CHAIN MANAGEMENT

MODELS AND ALGORITHMS

Springer Science & Business Media Quantitative Methods in Supply Chain Management presents some of the most important methods and tools available for modeling and solving problems arising in the context of supply chain management. In the context of this book, "solving problems" usually means designing efficient algorithms for obtaining high-quality solutions. The first chapter is an extensive optimization review covering continuous unconstrained and constrained linear and nonlinear optimization algorithms, as well as dynamic programming and discrete optimization exact methods and heuristics. The second chapter presents time-series forecasting methods together with prediction market techniques for demand forecasting of new products and services. The third chapter details models and algorithms for planning and scheduling with an emphasis on production planning and personnel scheduling. The fourth chapter presents deterministic and stochastic models for inventory control with a detailed analysis on periodic review systems and algorithmic development for optimal control of such systems. The fifth chapter discusses models and algorithms for location/allocation problems arising in supply chain management, and transportation problems arising in distribution management in particular, such as the vehicle routing problem and others. The sixth and final chapter presents a short list of new trends in supply chain management with a discussion of the related challenges that each new trend might bring along in the immediate to near future. Overall, Quantitative Methods in Supply Chain Management may be of particular interest to students and researchers in the fields of supply chain management, operations management, operations research, industrial engineering, and computer science.

INVENTORY OPTIMIZATION

MODELS AND SIMULATIONS

Walter de Gruyter GmbH & Co KG In this book . . . Nicolas Vandeput hacks his way through the maze of quantitative supply chain optimizations. This book illustrates how the quantitative optimization of 21st century supply chains should be crafted and executed. . . . Vandeput is at the forefront of a new and better way of doing supply chains, and thanks to a richly illustrated book, where every single situation gets its own illustrating code snippet, so could you. --Joannes Vermorel, CEO, Lokad Inventory Optimization argues that mathematical inventory models can only take us so far with supply chain management. In order to optimize inventory policies, we have to use probabilistic simulations. The book explains how to implement these models and simulations step-by-step, starting from simple deterministic ones to complex multi-echelon optimization. The first two parts of the

book discuss classical mathematical models, their limitations and assumptions, and a quick but effective introduction to Python is provided. Part 3 contains more advanced models that will allow you to optimize your profits, estimate your lost sales and use advanced demand distributions. It also provides an explanation of how you can optimize a multi-echelon supply chain based on a simple—yet powerful—framework. Part 4 discusses inventory optimization thanks to simulations under custom discrete demand probability functions. Inventory managers, demand planners and academics interested in gaining cost-effective solutions will benefit from the "do-it-yourself" examples and Python programs included in each chapter.

SPARE PARTS INVENTORY CONTROL UNDER SYSTEM AVAILABILITY CONSTRAINTS

Springer This book focuses on the tactical planning level for spare parts management. It describes a series of multi-item inventory models and presents exact and heuristic optimization methods, including greedy heuristics that work well for real, life-sized problems. The intended audience consists of graduate students, starting scholars in the field of spare parts inventory control, and spare parts planning specialists in the industry. In individual chapters the authors consider topics including: a basic single-location model; single-location models with multiple machine types and/or machine groups; the multi-location model with lateral transshipments; the classical METRIC model and its generalization to multi-indenture systems; and a single-location model with an explicit modeling of the repair capacity for failed parts and the priorities that one can set there. Various chapters of the book are used in a master course at Eindhoven University of Technology and in a PhD course of the Graduate Program Operations Management and Logistics (a Dutch network that organizes PhD courses in the field of OM&L). The required pre-knowledge consists of probability theory and basic knowledge of Markov processes and queuing theory. End-of-chapter problems appear for all chapters, with some answers appearing in an appendix.