Production And Inventory Management In The Computer Age

#inventory management systems #production optimization #digital supply chain #warehouse management software #computerized inventory control

Discover how production and inventory management has been revolutionized in the computer age, moving beyond traditional methods to embrace advanced technologies. This topic explores the integration of digital supply chain strategies, sophisticated inventory management systems, and warehouse management software to achieve unparalleled production optimization and efficiency. Learn how businesses leverage modern computing power to streamline operations, reduce costs, and meet dynamic market demands with precision.

Production and Inventory Management in the Computer Age

THE MISSING LINK IN PRODUCTIVITY. Our Manufacturing Economy at a Crossroads. Understanding the Scheduling Problem. From MRP to MRP II. The Impact of MRP II on Productivity. A NEW SET OF VALUES. The New Principles of Systems. The Old Principles of Management. The CEO's New Priorities. MANAGING ALL OF THE RESOURCES OF A MANUFACTURING COMPANY MORE PRODUCTIVELY. The CEO's Role in MRP II. MRP II in Marketing. MRP II in Manufacturing. MRP II in Purchasing. MRP II in Finance. MRP II in Engineering. DRP: Distribution Resource Planning. MRP II in Data Processing Systems. BECOMING A CLASS A USER. Justification. Implementing MRP II. The Education Task. Operating With MRP II. Beyond MRP II. Appendices. Glossary. Index.

Production and Inventory Management in the Computer Age

Materials management has become an important activity in both manu facturing and service organizations. Rapid changes in the industrial envi ronment, such as the introduction of automation and Just-In-Time, and demands for increased productivity and quality have increased the need for all personnel to be concerned with total control of materials. Clearly this trend will continue, and materials management will play an increasingly vital role in organizational success, especially for operations that are be coming automated. Materials management will be more critical in many service organizations where the materials group has received little attention in the past. This book covers the basic materials management function and provides valuable insights into various other major functions related to it. We believe that each of these-manufacturing, marketing, finance, quality assurance, and engineering-is vitally involved in materials management, and any coverage of the subject that excludes these functions

offers too narrow a perspective. With increasing demand for materials managers, human resource re quirements will be satisfied by individuals trained within the discipline and by personnel who have worked in other fields. The dimensions of materials management have grown so rapidly that many practicing managers are not aware that they are fulfilling material management functions. It is impor tant that all individuals have the basic knowledge required to perforrn their roles in these organizations.

Production and Inventory Management in the Technological Age

It has been said that every generation of historians seeks to rewrite what a previous generation had established as the standard interpretations of the motives and circumstances shaping the fabric of historical events. It is not that the facts of history have changed. No one will dispute that the battle of Waterloo occurred on June 11, 1815 or that the allied invasion of Europe began on June 6, 1944. What each new age of historians are attempting to do is to reinterpret the motives of men and the force of circumstance impacting the direction of past events based on the factual, social, intellectual, and cultural milieu of their own generation. By examining the facts of history from a new perspective, today's historians hope to reveal some new truth that will not only illuminate the course of history but also validate contempo rary values and societal ideals. Although it is true that tackling the task of developing a new text on logistics and distribution channel management focuses less on schools of philosophical and social analysis and more on the calculus of managing sales campaigns, inventory replenishment, and income statements, the goal of the management scientist, like the historian, is to merge the facts and figures of the discipline with today's organizational, cultural, and economic realities. Hopefully, the result will be a new synthesis, where a whole new perspective will break forth, exposing new directions and opportunities.

Manufacturing Resource Planning: MRP II

When work began on the first volume ofthis text in 1992, the science of dis tribution management was still very much a backwater of general manage ment and academic thought. While most of the body of knowledge associated with calculating EOQs, fair-shares inventory deployment, productivity curves, and other operations management techniques had long been solidly established, new thinking about distribution management had taken a definite back-seat to the then dominant interest in Lean thinking, quality management, and business process reengineering and their impact on manufacturing and service organizations. For the most part, discussion relating to the distri bution function centered on a fairly recent concept called Logistics Manage ment. But, despite talk of how logistics could be used to integrate internal and external business functions and even be considered a source of com petitive advantage on its own, most of the focus remained on how companies could utilize operations management techniques to optimize the traditional day-to-day shipping and receiving functions in order to achieve cost contain ment and customer fulfillment objectives. In the end, distribution manage ment was, for the most part, still considered a dreary science, concerned with oftransportation rates and cost trade-offs. expediting and the tedious calculus Today, the science of distribution has become perhaps one of the most im portant and exciting disciplines in the management of business.

Master Scheduling in the 21st Century

A new approach to improving the production of goods and services, Constraints Management (CM), recognizes the powerful role of the constraint (the limiting resource) in determining the output of the entire production system. By learning about and mastering CM concepts, managers can improve their companies' present output and plan for future growth as well.

Inventory Management

This Third Edition of the popular management science text, featuring more concise coverage of topics, new case studies for all eighteen chapters, and more illustrations, tables, and diagrams. Practical approach teaches students how to use management science techniques in real-world situations. Contains over 500 problems and 200 discussion questions.

Computer-based Production and Inventory Control

This book concentrates on real-world production scheduling in factories and industrial settings. It includes industry case studies that use innovative techniques as well as academic research results that can be used to improve production scheduling. Its purpose is to present scheduling principles,

advanced tools, and examples of innovative scheduling systems to persons who could use this information to improve their own production scheduling.

Total Materials Management

Research Methods for Operations Management, second edition is a toolkit of research approaches primarily for advanced students and beginner researchers but also a reference book for any researcher in OM. Many students begin their career in research limited by the one or few approaches taken by their department. The concise, accessible overviews found here equip them with an understanding of a variety of methods and how to use them, enabling them to tailor their research project to their own strengths and goals. The more seasoned researcher will find comprehensive descriptions and analyses on a wide variety of research approaches. This updated and enhanced edition responds to the latest developments in OM, including the growing prominence of services and production of intangible products, and the increasing use of secondary data and of mixed approaches. Alternative research approaches are included and explored to help with the early planning of research. This edition also includes expanded literature review and analysis to guide students towards the next steps in their reading, and more detailed step-by-step advice to tie theory with the researcher’s own practice. Including contributions from an impressive range of the field’s leading thinkers in OM research, this is a guide that no-one embarking on an OM research project should be without.

Soil Survey of Reeves County, Texas

This book explores the domain of reliability engineering in the context of machine tools. Failures of machine tools not only jeopardize users' ability to meet their due date commitments but also lead to poor quality of products, slower production, down time losses etc. Poor reliability and improper maintenance of a machine tool greatly increases the life cycle cost to the user. Thus, the application area of the present book, i.e. machine tools, will be equally appealing to machine tool designers, production engineers and maintenance managers. The book will serve as a consolidated volume on various dimensions of machine tool reliability and its implications from manufacturers and users point of view. From the manufacturers' point of view, it discusses various approaches for reliability and maintenance based design of machine tools. In specific, it discusses simultaneous selection of optimal reliability configuration and maintenance schedules, maintenance optimization under various maintenance scenarios and cost based FMEA. From the users' point of view, it explores the role of machine tool reliability in shop floor level decision- making. In specific, it shows how to model the interactions of machine tool reliability with production scheduling, maintenance scheduling and process quality control.

Distribution

Research Methods for Operations and Supply Chain Management, third edition, is a toolkit of research approaches primarily for advanced students and beginner researchers, but also a reference book for any researcher in operations and supply chain management (OSCM). Many students begin their careers in research limited by the one or few approaches taken by their department. The concise, accessible overviews found here equip them with an understanding of a variety of methods and how to use them, enabling students to tailor their research project to their own strengths and goals. The more seasoned researcher will find comprehensive descriptions and analyses on a wide variety of research approaches. This updated and enhanced edition responds to the latest developments in OSCM, including the growing prominence of services and production of intangible products, the complete supply chain, and the increasing use of secondary data and of mixed approaches. Alternative research approaches are included and explored to help with the planning of research. This edition also includes expanded literature reviews and analysis to guide students towards the next steps in their reading, and more detailed step-by-step advice to tie theory with the research. Including contributions from an impressive range of the field’s leading thinkers in OSCM research, this is a guide that no one embarking on an OSCM research project should be without. Previous editions of this book were published under the title Research Methods for Operations Management and Researching Operations Management.

Distribution Planning and Control

Manufacturing has entered the early stages of a revolutionary period caused by the convergence of three powerful trends: • The rapid advancement and spread of manufacturing capabilities worldwide has

created intense competition on a global scale. • The emergence of advanced manufacturing technologies is dramati cally changing both the products and processes of modern manufac turing. • Changes in traditional management and labor practices, organiza tional structures, and decision-making criteria represent new sources of competitiveness and introduce new strategic opportunities. These trends are interrelated and their effects are already being felt by the u.s. manufacturing community. Future competitiveness for manu facturers worldwide will depend on their response to these trends. Based on the recent performance of u.s. manufacturers, efforts to respond to the challenges posed by new competition, technology, and managerial opportunities have been slow and inadequate. Domestic markets that were once secure have been assailed by a growing number of foreign competitors producing high quality goods at low prices. In a number of areas, such as employment, capacity utilization, research and development expenditures, and capital investment, trends in u.s. manufacturing over the last decade have been unfavorable or have not kept pace with major foreign competitors, such as Japan. There is substantial evidence that many u.s. manufacturers have neglected the manufacturing function, have overemphasized product development at the expense of process improvements, and have not begun to make the adjustments that will be necessary to be competitive.

The Constraints Management Handbook

In the world of e-business, competition takes on a new intensity. The dynamics of the online marketplace often require organizations to pursue multiple and complex strategies. The book explores the international operations concepts employed by leading organizations to secure competitive advantage.

Topics in Management Science

Researching Operations Management fills the growing need for a comprehensive textbook and reference on doing quality research in the field of Operations Management (OM). It addresses the particular problem—especially for advanced students and beginning researchers—that many academic departments specialize in just one or a few approaches to research. As a result many students and researchers are not exposed to the breadth of possible research approaches in OM. Providing a concise overview of each of the most important research approaches in the field, the book enables researchers and students to understand and practice these methods, thus giving them a platform for choosing appropriate and complementary approaches to their research. With contributions from an international group of leading thinkers in the OM research field, the book covers those methods frequently used in studies of OM as well as adjacent applied management areas such as management of innovation and R&D, logistics, and supply chain management. Included are chapters on surveys, case studies, action research, longitudinal field studies, and models and simulations together with chapters on planning, positioning, assessing, and publishing research. In addition, the contributors also consider ethical and cultural issues in researching operations management.

Computer-based production and inventory control

The 1980s have witnessed a tremendous growth in the field of computer integrated manufacturing systems. The other major areas of development have been computer-aided design, computer-aided manufacturing, industrial robotics, automated assembly, cellular and modular material handling, computer networking and office automation to name just a few. These new technologies are generally capital intensive and do not conform to traditional cost structures. The net result is a tremendous change in the way costs should be estimated and economic analyses performed. The majority of existing engineering economy texts still profess application of traditional analysis methods. But, as was men tioned above, it is clear that the basic trend in manufacturing industries is itself changing. So it is quite obvious that the practice of traditional economic analysis methods should change too. This book is an attempt to address the various issues associated with non-traditional methods for evaluation of advanced computer-integrated technologies. This volume consists of twenty refereed articles which are grouped into five parts. Part one, Economic Justification Methods, consists of six articles. In the first paper, Soni et at. present a new classification for economic justification methods for advanced automated manufacturing systems. In the second, Henghold and LeClair look at strengths and weaknesses of expert systems in general and more specifically, an ap plication aimed at investment justification in advanced technology. The third paper, by Carrasco and Lee, proposes an enhanced economic methodology to improve the needs analysis, conceptual design and de tailed design activities associated with technology modernization.

Handbook of Production Scheduling

This volume is intended to expand the dialogue and interest among both practitioners and academicians in a problem area worthy of attention by all. The concept of disaggregation admits to our current inability to solve many types of interrelated hierarchical problems simultaneously. It offers instead a sequential, iterative process as a workable and necessary procedure. The papers in this volume are selected from those presented at a Disaggregation Conference held in March, 1977 at The Ohio State University. We heartily applaud all those who participated in the conference and particularly appreci ate the cooperation of those authors whose work is published in this collection. Part A contains four papers which define the various dimensions of disaggregation. The paper by Martin Starr, which was the text of his luncheon address at the conference, provides several interesting perspectives to the problem. Although disaggregation suggests tear ing apart, as Professor Starr illustrates with his butterfly example, it also suggests a putting together or a synthesis which recognizes interrelationships and dependencies. The next paper by Lee Kra jewski and Larry Ritzman offers a general model of disaggregation for both the manufacturing and service sectors. After reading the papers in this section, as well as the papers in subsequent sections, you will identify other dimensions to hierarchical decision making which go beyond this generalized model.

Research Methods for Operations Management

From the Foreword of the First Edition of Integral Logistics Management: Operations and Supply Chain Management Within and Across Companies: "Changes in the world outside the company alter the way that we look at problems and priorities in the company itself. This presents new challenges to company logistics and to planning & control of corresp

Machine Tool Reliability

Industrial production in high-wage countries like Germany is still at risk. Yet, there are many counter-examples in which producing companies dominate their competitors by not only compensating for their specific disadvantages in terms of factor costs (e.g. wages, energy, duties and taxes) but rather by minimising waste using synchronising integrativity as well as by obtaining superior adaptivity on alternating conditions. In order to respond to the issue of economic sustainability of industrial production in high-wage countries, the leading production engineering and material research scientists of RWTH Aachen University together with renowned companies have established the Cluster of Excellence “Integrative Production Technology for High-Wage Countries”. This compendium comprises the cluster’s scientific results as well as a selection of business and technology cases, in which these results have been successfully implemented into industrial practice in close cooperation with more than 30 companies of the industrial production sector.

Research Methods for Operations and Supply Chain Management

This is the first book that addresses the genesis and career of the modern day enterprise system in a comprehensive and robust manner. It does so through setting out a new approach for the study of packaged solutions and presents novel empirical studies based on in-depth ethnographic and longitudinal research conducted within supplier organisations and other relevant sites. The authors shift the debate within the social study of information systems, from one that is primarily focused on ‘implementation studies’, to one that follows software as it evolves, matures and crosses organisational boundaries. Through tracing and comparing the ‘biography’ of a number of software systems the authors develop a new vocabulary for the dynamics that surround standardised software. Original in its approach, this book draws on a number of ethnographic studies in supplier organisations, user settings, user forums, and applies theories from the Sociology of Technology, Technology Studies, Innovation Studies, and beyond. As such it will be of interest across all of these subject areas and to researchers from the wider fields of Information Systems and Business Studies.

Computer-Integrated Manufacturing Handbook

Market-Based Control is a paradigm for controlling complex systems that would otherwise be very difficult to control, maintain, or expand. The purpose of this volume is to illustrate the utility of market-based control through a series of papers focusing on different applications. This volume, for the first time, brings together the research from a wide range of fields all using a market-based conceptual framework. The features of markets that have provided motivation for these works include decentralization, interact-

ing agents, and some notion of a resource that needs to be allocated. The papers span a range including theoretical considerations, simulations, and implementations. Contents:A Computational Market Model Based on Individual Action (K Steiglitz et al.)Valuation of Network Computing Resources (R A Gagliano & P A Mitchem)An Equilibratory Market-Based Approach for Distributed Resource Allocation and Its Applications to Communication Network Control (K Kuwabara et al.)Market-Oriented Programming: Some Early Lessons (M P Wellman)An Automated Auction in ATM Network Bandwidth (M S Miller et al.)A Market Approach to Operating System Memory Allocation (K Hartyn & D Cherito)Economic Models for Allocating Resources in Computer Systems (D F Ferguson et al.)Metaphor or Reality: A Case Study Where Agents Bid with Actual Costs to Schedule a Factory (A D Baker)Machining Task Allocation in Discrete Manufacturing Systems (K J Tilley)Saving Energy Using Market-Based Control (S H Clearwater et al.)The Use of Computer-Assisted Auctions for Allocating Tradeable Pollution Permits (D B Marron & C W Bartels) Readership: Graduate students, researchers and engineers in control engineering and computer science. keywords:Market;Auction;Control;Resource Allocation;Distributed;Computation;Scheduling;Network;Manufacturing;Communication “This volume is an excellent primer on the theory and use of one class of such mechanisms … This volume should be required reading for anyone responsible for specifying, designing, implementing, or operating multi-agent systems.” Computing Reviews

International Operations Management

Shop floor control and namely the problem of job shop scheduling have been fields of research for a long time. However, until now no comprehensive framework on the various aspects exists. This book will provide a systems perspective towards shop floor control by stressing its sociotechnical and cybernetical nature. It focuses on the behavioral aspects of control activities and sees the shop floor as the center of value-adding manufacturing activities within an enterprise. The book enables the reader to understand the interaction of organization, information technology and human resources. This eventually allows to achieve holistic and agile solutions and facilitates profound organizational change. The book will therefore provide a welcome addition to several standard textbooks on the issue.

Researching Operations Management

A categorized compilation of favorite posts from the Evolving Excellence blog, Evolving Excellence: Thoughts on Lean Enterprise Leadership offers different-even outright contradictory-viewpoints that explore various aspects of lean enterprise excellence. In the shared desire to see American manufacturing thrive, authors Kevin Meyer and Bill Waddell have poured their knowledge, opinions, and ideas into their blog for the past two years. Sometimes tongue in cheek, usually provocative, occasionally humorous, but always passionate, they point out the failures of companies, organizations, and individuals in the manufacturing industry while also lauding those that understand true excellence. In Evolving Excellence, you'll find a bevy of different topics including: - Learning from the masters of lean manufacturing - Life, liberty, and the pursuit of manufacturing - The false god of the almighty algorithm - Looking lean vs. being lean - The impending global struggle between workers and management "If you love manufacturing then we hope you're reading Evolving Excellence. It's a must-read for manufacturers and those who dream."-Pat Cleary, Senior Vice President, National Association of Manufacturers "The authors are knowledgeable and they tell it like it is."-Bob Emiliani, author of Shingo Prize winning Better Thinking, Better Results Evolving Excellence also includes a glossary of popular terms and a list of resources to help further your knowledge of excellence in manufacturing. Delve into this amazing collection, and discover the different facets of lean enterprise leadership!

Economics of Advanced Manufacturing Systems

This book provides an excellent source for professionals preparing for professional certification examinations. This new edition has been significantly reorganizsed to reflect more closely the organisation of professional certification exams. Discussion follows the step-by-step decision-making process, including topics such as: establishment of management objectives, long-, medium-, and short-range planning, execution, and control. It also features increased emphasis on tactical and technological considerations.

Disaggregation

This volume reflects the theme of the INFORMS 2004 Meeting in Denver: Back to OR Roots. Emerging as a quantitative approach to problem-solving in World War II, our founders were physicists, mathe-

maticians, and engineers who quickly found peace-time uses. It is fair to say that Operations Research (OR) was born in the same incubator as computer science, and it has spawned many new disciplines, such as systems engineering, health care management, and transportation science. Although people from many disciplines routinely use OR methods, many scientific researchers, engineers, and others do not understand basic OR tools and how they can help them. Disciplines ranging from finance to bioengineering are the beneficiaries of what we do — we take an interdisciplinary approach to problem-solving. Our strengths are modeling, analysis, and algorithm design. We provide a quanti- tive foundation for a broad spectrum of problems, from economics to medicine, from environmental control to sports, from e-commerce to computational - ometry. We are both producers and consumers because the mainstream of OR is in the interfaces. As part of this effort to recognize and extend OR roots in future probl- solving, we organized a set of tutorials designed for people who heard of the topic and want to decide whether to learn it. The 90 minutes was spent addre- ing the questions: What is this about, in a nutshell? Why is it important? Where can I learn more? In total, we had 14 tutorials, and eight of them are published here.

Production and Inventory Management

An overview of the CIM theory including a definition of its evolution over the years. It is intended to allow engineers and managers to implement the theory and to use it effectively. Divided into three sections.

Integral Logistics Management

This is the most comprehensive dictionary of maintenance and reliability terms ever compiled, covering the process, manufacturing, and other related industries, every major area of engineering used in industry, and more. The over 15,000 entries are all alphabetically arranged and include special features to encourage usage and understanding. They are supplemented by hundreds of figures and tables that clearly demonstrate the principles & concepts behind important process control, instrumentation, reliability, machinery, asset management, lubrication, corrosion, and much much more. With contributions by leading researchers in the field: Zaki Yamani Bin Zakaria Department, Chemical Engineering, Faculty Universiti Teknologi Malaysia, Malaysia Prof. Jelenka B. Savkovic-Stevanovic, Chemical Engineering Dept, University of Belgrade, Serbia Jim Drago, PE, Garlock an EnPro Industries family of companies, USA Robert Perez, President of Pumpcalcs, USA Luiz Alberto Verri, Independent Consultatnt, Verri Veritatis Consultoria, Brasil Matt Tones, Garlock an EnPro Industries family of companies, USA Dr. Reza Javaherdashti, formerly with Qatar University, Doha-Qatar Prof. Semra Bilgic, Faculty of Sciences, Department of Physical Chemistry, Ankara University, Turkey Dr. Mazura Jusoh , Chemical Engineering Department, Universiti Teknologi Malaysia Jayesh Ramesh Tekchandaney, Unique Mixers and Furnaces Pvt. Ltd. Dr. Henry Tan, Senior Lecturer in Safety & Reliability Engineering, and Subsea Engineering, School of Engineering, University of Aberdeen Fiddoson Fiddo, School of Engineering, University of Aberdeen Prof. Roy Johnsen, NTNU, Norway Prof. N. Sitaram , Thermal Turbomachines Laboratory, Department of Mechanical Engineering, IIT Madras, Chennai India Ghazaleh Mohammadali, IranOilGas Network Members' Services Greg Livelli, ABB Instrumentation, Warminster, Pennsylvania, USA Gas Processors Suppliers Association (GPSA)

Integrative Production Technology for High-Wage Countries

The logic of Manufacturing Resource Planning (MRP II) is im plemented in most commercial production planning software tools and is commonly accepted by practitioners. However, these peo ple are not satisfied with production planning and complain about long lead times, high work-in-process, and backlogging. As many researchers have pointed out, the reason for these shortcomings is inherent to the methods that are used. The research community is thus eager to find more sophisticated approaches. This book is an attempt to compile some state-of-the-art work in the field of production planning research. It includes mate rial that somehow dominates the existing MRP II concept. 15 ar ticles written by 36 authors from 10 countries cover many aspects related to MRP II. All papers went through a single-blind refere eing process before they were selected for being published in this book. When we received papers for this issue, we discovered that MRP II is a topic about which not only management scientists show interest. As the list of authors proves, industrial engineers, computer scientists, and-operations researchers from academia as well as practitioners have contributed to this book. This, we hope, makes the book of value for a broad audience. We thank all authors who submitted papers. And, we are in debted to Dr. Werner Muller from Springer for his support in this book project.

Software and Organisations

This text shows students how just-in-time (JIT) management can be integrated with manufacturing computer-based systems and technology, like CIM and MRP. It provides information on applying JIT to service organizations and to administrative areas of organizations.

Market-Based Control

This cutting-edge book covers emerging, evolutionary and nature inspired optimization techniques in the field of advanced manufacturing. The complexity of real life advanced manufacturing problems often cannot be solved by traditional engineering or computational methods. Hence, in recent years researchers and practitioners have proposed and developed new strands of advanced, intelligent techniques and methodologies. Evolutionary computing approaches are introduced in the context of a wide range of manufacturing activities, and through the examination of practical problems and their solutions, readers will gain confidence to apply these powerful computing solutions. The initial chapters introduce and discuss the well established evolutionary algorithm, to help readers to understand the basic building blocks and steps required to successfully implement their own solutions to real life advanced manufacturing problems. In the later chapters, modified and improved versions of evolutionary algorithms are discussed. The book concludes with appendices which provide general descriptions of several evolutionary algorithms.

Shop Floor Control - A Systems Perspective

Thousands of software projects are doomed because they're based on a faulty understanding of the business problem that needs to be solved. Requirements Analysis: From Business Views to Architec-tureis the solution. David C. Hay brings together the world's best requirements analysis practices from two key viewpoints: system development life cycle and architectural framework. Hay teaches you the complete process of defining an architecture - from a full understanding of what business people need to the creation of a complete enterprise architecture.

Evolving Excellence

This is the digital version of the printed book (Copyright © 1996). Learning the basics of a modeling technique is not the same as learning how to use and apply it. To develop a data model of an organization is to gain insights into its nature that do not come easily. Indeed, analysts are often expected to understand subtleties of an organization's structure that may have evaded people who have worked there for years. Here's help for those analysts who have learned the basics of data modeling (or "entity/relationship modeling") but who need to obtain the insights required to prepare a good model of a real business. Structures common to many types of business are analyzed in areas such as accounting, material requirements planning, process manufacturing, contracts, laboratories, and documents. In each chapter, high-level data models are drawn from the following business areas: The Enterprise and Its World The Things of the Enterprise Procedures and Activities Contracts Accounting The Laboratory Material Requirements Planning Process Manufacturing Documents Lower-Level Conventions

Production & Inventory Management

Tutorials on Emerging Methodologies and Applications in Operations Research