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SERIES IN PRODUCTION MANAGEMENT)

# **Zero Inventories (IRWIN/APICS SERIES IN PRODUCTION MANAGEMENT)**

Supplies the most essential concepts and methods necessary to capitalize on the innovations of industrial automation, including mathematical fundamentals, ergonometics, industrial robotics, government safety regulations, and economic analyses.

This book assesses the state of international manufacturing strategy and clarifies how recent developments, for example regarding configuration, technology, and the

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environment, are impacting on its content and direction and on its relationship to manufacturing performance. In providing up-to-date coverage of the consequences of such forces and factors for international manufacturing, this book aims to expand the debate concerning international manufacturing strategy and cast light on its current evolution. International manufacturing is operating within a time of great flux. While offshoring of activities has dominated over recent decades, nearshoring and reshoring are increasingly being considered and observed in practice. At the same time, technologies such as 3D-printing are gaining traction and the role of ICT and data analytics is increasingly important in the international manufacturing landscape while digitization becomes more prevalent and

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the embrace of the Internet of Things (IOT) accelerates. Furthermore, issues related to the environment are figuring more prominently in international manufacturing considerations, and assumptions regarding the long-term cost of energy are being called into question. International manufacturing is also experiencing greater servitization. A brand new collection of world-class supply chain design solutions... 3 authoritative books, now in a convenient e-format, at a great price! 3 authoritative eBooks deliver state-of-the-art guidance for designing and optimizing highly competitive global supply chains! This unique 3 eBook package will help you design state-of-the-art supply chains that deliver rapid, quantifiable, and sustainable competitive advantage. The Encyclopedia of Operations Management is

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the perfect single-volume "field manual" for every supply chain or operations management practitioner and student. Nearly 1,500 well-organized, up-to-date definitions cover every facet of supply chain design, planning, management, and optimization. Next, in Reinventing the Supply Chain Life Cycle, Marc J. Schniederjans and Stephen B. LeGrand show how to optimize supply chains throughout their entire lifecycle: creation, growth, maturity, and decline! Reflecting up-to-the-minute "in-the-trenches" experience and pioneering research, this book illuminates the complex transformational processes associated with managing complex supply chains that incorporate multiple products and services within ever-changing networks. They walk you through: starting, creating, and building new supply chains;

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realigning them for growth; adjusting to dynamic change, readjusting networks, building flexibility, and managing new risks. Next, they offer practical, realistic guidance for realigning "mature" supply chains, innovating, controlling costs; and smoothly managing declining demand.

Throughout, they offer invaluable insights, tools, and examples for negotiation, performance measurement, anticipating change, improving agility, meeting commitments to social responsibility and the law; and more. Finally, in Supply Chain Network Design, four leading IBM and Northwestern University experts show how to use strategic supply chain network design to achieve dramatic new savings. They integrate rigorous principles and practical applications to help you select the right number,

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location, territory, and size of warehouses, plants, and production lines; and optimize the flow of all products through even the most complex global supply chain. You'll find better ways to decide what (and where) to manufacture internally; and which products to outsource (and to whom). You'll get help managing cost vs. service-level tradeoffs; using analytics to improve decision-making; and re-optimizing regularly for even more savings. Whatever your role in supply chain design, this collection will help you systematically optimize performance, customer value, and profitability. From world-renowned supply chain experts Arthur V. Hill, Marc J. Schniederjans, Stephen B. LeGrand, Michael Watson, Sara Lewis, Peter Cacioppi, and Jay Jayaraman

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Supply Chain Design (Collection)

Organizational Transformation and Process Reengineering

The Constraints Management Handbook

Basics of Supply Chain Management

Building Sustainability Into Your Organization (Collection)

Putting the Just-In-Time Philosophy into Practice

**Organizational Transformation and Process Engineering is the key to achieving success in the new customer-driven market economy. Organizations are going through tremendous changes, creating environments where all employees can contribute their best, where customer expectations are exceeded, and where efficiency, effectiveness, productivity, quality, customer satisfaction, and**

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**competitiveness are taken seriously as critical success factors. Written to assist those companies and organizations striving to keep pace with the competitive atmosphere of the 90s, this book provides all the essential tools, techniques, methodologies, models, and technologies for transformation and reengineering. Broad and comprehensive in scope, Organizational Transformation and Process Reengineering explains how to change not just one area, but structures, policies, procedures, processes, and management systems-any aspect of an organizational structure that no longer responds to the current demands of the marketplace. Years of research, teaching,**



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**consulting, and practical work experience led Dr. Edosomwan, a leader in his field, to put his unique and practical theories into a volume designed to help organizations overcome the impediments involved in process reengineering projects. He outlines a step-by-step methodology for analyzing organizational structures; the six R's of organizational transformation; models that can be utilized in both public and private organizations; tools and techniques for achieving reengineering goals; implementation plans; and key survival and success factors.**

**Zero Inventories Irwin Professional Pub**

**This book describes both the essential features of**

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**Just-In-Time (JIT) how JIT can be successfully approaches to manufacturing and implemented. JIT marks a significant departure from previous western approaches to manufacturing management, and aims to improve quality levels and customer service while decreasing lead times and inventory levels. The use of simple though effective methods can, with proper management, lead to continual improvements in the manufacturing operation. A number of companies have now implemented JIT and some of these implementations have been very successful. However, what is becoming increasingly clear is that there is a significant number of JIT implementations that fail to achieve the potential benefits of JIT. It is not an easy**

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**task, and there are a number of pitfalls that await the unwary manager. My motivation for writing this book has been my experience of working with companies that have been successful in JIT and of seeing what needs to be done and how the implementing most common pitfalls can be avoided. The book is oriented towards batch manufacturing since this accounts for a large proportion of manufacturing in most western countries. Other types (including process, mass and jobbing) can also profitably use many of the JIT techniques to improve their operation.**

**A Field Manual and Glossary of Operations Management Terms and Concepts**

**A Collection of Presentations from the 71st Annual**

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**International Purchasing Conference  
Planning for Manufacturing Excellence  
The Need to Change**

**The Routledge Companion to Lean Management  
International Manufacturing Strategy in a Time of  
Great Flux**

***Reducing prices paid for goods and services is the most direct way for many manufacturers to increase profitability. According to authors Kuzdrall and Britney it is possible to achieve this "profit leverage effect" without switching suppliers or even requiring suppliers to reduce prices.***

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***Discount Schedule Analysis (DSA), an analytic technique delineated in this book, shows corporate buyers how to exploit printed price quantity discount schedules. Corporate vendors can employ the same techniques to forestall demands for price concessions.***

***Explains the concept of stockless production, looks at problems in the production control system, and discusses process flow, quality circles, suppliers, and implementation strategies***

***Load-Oriented Manufacturing Control is***

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***unique as it gives comprehensive and self-contained principles for the implementation of an appropriate production control technique of general applicability. It is based on the "funnel model", a new approach to scheduling and scheduling control which has an extensive monitoring and diagnosis system. Its most important system components include throughput diagrams, load-oriented order release, schedule-oriented capacity planning and control. The "funnel model" is getting increasing implementation in manufacturing***

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***companies. It is available in numerous variants and is especially significant for the job-shop and series production. Load-Oriented Manufacturing Control provides a large number of practical examples and is therefore relatively easy to understand. It offers direct implementation of this new important technique in manufacturing scheduling and control.***

***Complete Transcripts of Papers on the Topic of Zero Inventory Presented at the APICS 27th Annual International Conference, October 9-12, 1984, Las Vegas, Nevada***

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***The Design of the Factory with a Future  
A Strategy for Production Managers  
A Study of an Enlarged JIT and Its Impact on  
JIT Implementation and Performance of the  
Production System  
A Descriptive Analysis of the  
Subcontractor/supplier Linkages Within a  
Just-in-time Environment in the U.S.  
Automobile Industry  
The Encyclopedia of Operations  
Management***

The results are in. The evidence has been analyzed.



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Research shows that the lack of enterprise-wide training is the biggest reason for ERP implementation failures. It is the single most important precursor to achieving success. Integrated Learning for ERP Success is the first resource to offer a specifically defined, comprehensive method for planning, delivering, and evaluating ERP training efforts. It even includes formulas for determining training return on investment. The Learning Requirements Planning (LRP) process presented involves a six-step enterprise-level instructional design model that when implemented correctly assures success. If you would rather have a root canal than oversee an ERP implementation, you are not

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alone. But like avoiding a root canal, avoiding ERP implementation only causes more pain. This book eases the implementation pain. It shows you how a formal plan for learning will increase the productivity of the ERP implementation team, shorten overall implementation time, and substantially decrease implementation costs. It also provides a discussion on how an ERP implementation can be used as a catalyst for lifelong organizational learning. Implementing an ERP system can cost three to ten times the actual software purchase price. You can't afford to waste money or time in the areas of ERP education. *Integrated Learning for ERP Success* shows

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you how to create learning-focused ERP implementations that provide substantial savings and the competitive advantage.

Handbook

For operations managers, running a smooth and efficient organization is more crucial than ever -- and it's more difficult, too. Fortunately, there's a secret to success: a proven approach and toolset that can help operations managers free up resources, eliminate unnecessary meetings, and get more done faster. The approach is named "The Power of Completion," and the tools have been honed by expert project managers through decades

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of experience. In *The Operations Manager's Toolbox*, operations manager and PMP-certified project manager Randal Wilson shows how to apply the Project Management (PM) discipline to completing the crucial "smaller" tasks that can help the organization quickly drive substantial improvements in efficiency and performance. *The Encyclopedia of Operations Management* is the perfect "field manual" for every supply chain or operations management practitioner and student. The field's only single-volume reference, it's uniquely convenient and uniquely affordable. With nearly 1,500 well-organized definitions, it can help students

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quickly map all areas of operations and supply chain management, and prepare for case discussions, exams, and job interviews. For instructors, it serves as an invaluable desk reference and teaching aid that goes far beyond typical dictionaries. For working managers, it offers a shared language, with insights for improving any process and supporting any training program. It thoroughly covers: accounting, customer service, distribution, e-business, economics, finance, forecasting, human resources, industrial engineering, industrial relations, inventory management, healthcare management, Lean Sigma/Six Sigma, lean thinking, logistics,

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maintenance engineering, management information systems, marketing/sales, new product development, operations research, organizational behavior/management, personal time management, production planning and control, purchasing, reliability engineering, quality management, service management, simulation, statistics, strategic management, systems engineering, supply and supply chain management, theory of constraints, transportation, and warehousing. Multiple figures, graphs, equations, Excel formulas, VBA scripts, and references support both learning and application.

Total Manufacturing Management

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A Guide for Purchasing, Marketing, Materials, and Financial Managers

Information Control and Technology

CMA

Just-in-time Reprints

International Journal of Production Economics

This is the perfect "field manual" for every supply chain or operations management practitioner and student. The field's only single-volume reference, it's uniquely convenient and uniquely affordable. With nearly 1,500 well-organized definitions, it can help students quickly map all areas of operations and supply chain

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management, and prepare for case discussions, exams, and job interviews. For instructors, it serves as an invaluable desk reference and teaching aid that goes far beyond typical dictionaries. For working managers, it offers a shared language, with insights for improving any process and supporting any training program. It thoroughly covers: accounting, customer service, distribution, e-business, economics, finance, forecasting, human resources, industrial engineering, industrial relations, inventory management, healthcare management, Lean Sigma/Six Sigma, lean thinking, logistics, maintenance engineering, management information systems, marketing/sales, new product



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development, operations research, organizational behavior/management, personal time management, production planning and control, purchasing, reliability engineering, quality management, service management, simulation, statistics, strategic management, systems engineering, supply and supply chain management, theory of constraints, transportation, and warehousing. Multiple figures, graphs, equations, Excel formulas, VBA scripts, and references support both learning and application. "... this work should be useful as a desk reference for operations management faculty and practitioners, and it would be highly valuable for undergraduates learning the basic concepts and

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terminology of the field." Reprinted with permission from CHOICE <http://www.cro2.org>, copyright by the American Library Association.

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

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glossary of terms is also included.

Lean Six Sigma in Higher Education Institutions: The Need to Change is a research-led study designed for leaders within Higher Educational institutions, presenting a Lean Six Sigma Maturity Model (LSS) which can be used to assess the current level of LSS maturity of any university setting.

Purchasing & Technology--1986 & Beyond

Load-Oriented Manufacturing Control

Symposium on Manufacturing Systems--Design, Integration, and Control

Price and Discount Schedule Analysis

A Learning Requirements Planning Approach

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### Forecasting Systems for Operations Management

*A brand new collection of state-of-the-art techniques for building more sustainable, higher-performing organizations... now in a convenient e-format, at a great price! Three 100% practical primers help you drive competitive advantage by optimizing sustainability and operational performance To compete in today's extraordinarily competitive global environment, organizations need to achieve new levels of sustainability and operational performance. This brand-new package brings together three practical, state-of-the-art primers for doing just that.*

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*Robert Palevich's The Lean Sustainable Supply Chain offers start-to-finish guidance for redesigning company infrastructure and technologies to achieve the powerful benefits that come with integrating "lean" and "green." and benefits. Palevich introduces core concepts of lean green supply chain management, illuminating them with a comprehensive case study showing how to manage change, innovation, talent, execution, inventory, warehousing, and transportation. He demonstrates how to integrate supply chain sustainability into business scorecards; use 3PLs more effectively; drive more value from*

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*information, and systematically address every relevant technical issue. Next, in Creating a Sustainable Organization, Peter A. Soyka presents today's most complete and actionable guide to improving business performance through sustainable practices. Soyka bridges the disparate worlds of the EHS/sustainability professional and the investor/analyst, outlining today's best evidence about linkages between sustainability and value, discussing key stakeholder relationships, and introducing new practices for managing and measuring sustainability throughout the business.*

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*Finally, Arthur V. Hill's The Encyclopedia of Operations Management is today's most convenient and useful supply chain/operations management "field manual." Bringing together nearly 1,500 well-organized definitions, it helps you quickly map all areas of these fields, from accounting and distribution through quality management, strategy, transportation, and warehousing. Throughout, Hill offers a shared language and realistic insights for improving any process and supporting any training program. From world-renowned supply chain and operations experts Robert Palevich, Peter A. Soyka, and Arthur*

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### *V. Hill*

*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.*

*Supply Chain Management (SCM) was once a "pie in the sky" concept that could not be fully achieved. A key barrier was the cost of communicating with and coordinating among the*



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*many independent suppliers in each supply chain. SCM is possible because of three changes: technology has developed that simplifies communication, new management paradigms ha*

*Manufacturing Information Systems*

*Integrated Learning for ERP Success*

*IIE Integrated Systems Conference Proceedings*

*Production Organization for the 1990s*

*Production & Inventory Management Review &*

*APICS News*

*Just-in-time, Not Just in Japan*

Offers principles and guidelines for implementing, maintaining, and improving forecasting systems,

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describes available forecasting methods, and provides examples from varied organizational settings

Interest in the phenomenon known as "lean" has grown significantly in recent years. This is the first volume to provide an academically rigorous overview of the field of lean management, introducing the reader to the application of lean in diverse application areas, from the production floor to sales and marketing, from the automobile industry to academic institutions. The volume collects contributions from well-known lean experts and up-and-coming scholars from around the world. The chapters provide a detailed description of lean management across the manufacturing enterprise (supply chain, accounting,

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production, sales, IT etc.), and offer important perspectives for applying lean across different industries (construction, healthcare, logistics). The contributors address challenges and opportunities for future development in each of the lean application areas, concluding most chapters with a short case study to illustrate current best practice. The book is divided into three parts: The Lean Enterprise Lean across Industries A Lean World. This handbook is an excellent resource for business and management students as well as any academics, scholars, practitioners, and consultants interested in the "lean world."

Manufacturers worldwide are faced with unprecedented

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challenges from international competition, changing production processes and technologies, shorter production life-cycles, market globalization and environmental requirements. Fundamental to meeting these challenges is the understanding and control of information across all stages of the Computer Integrated Manufacturing (CIM) process. Modern Manufacturing presents the state of the art in the information-oriented aspects of CIM and Intelligent Manufacturing Systems. Particular emphasis is placed on the impact of new software engineering technologies, the object-oriented approach, database design, hierarchical control and intelligent systems. The contributions are written by

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experts from Europe and the USA.

Handbook Of Industrial Automation

Conference Proceedings

Logistics of Production and Inventory

Tools and Tactics for Operations Managers (Collection)

Modern Manufacturing

Inventory Management Reprints

A brand new collection of state-of-the-art operations management tools and tactics... 3 authoritative books, now in a convenient e-format, at a great price! 3 authoritative eBooks bring together today's most valuable new operations management techniques and

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solutions! Apply today's most innovative operations management techniques to improve performance and value in any organization -- even the most complex or constrained! In High Performance Operations, Hillel Glazer shows how to optimize business performance and profitability while maintaining strong governance and compliance. Glazer demonstrates how to integrate lean and systems thinking, and systematically incorporating compliance into planning for overall performance, value, and profitability, rather than viewing it as an end in itself. Learn how to clarify competing

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interests and implement pre-conditions for success; use systems thinking to promote operational excellence; eliminate single points of failure; establish proof-of-performance; scale your successes, and get more of "what went right"! The Encyclopedia of Operations Management is the perfect single-volume "field manual" for every OM or supply chain professional. Nearly 1,500 well-organized, up-to-date definitions cover every facet of supply chain design, planning, management, and optimization. For the first time, this remarkable reference brings together up-to-the-minute information about

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topics ranging from accounting and customer service to transportation and warehousing. Next, in *The Operations Manager's Toolbox*, Randal Wilson helps you use proven project management (PM) tools and techniques to supercharge efficiency, free up resources, eliminate unnecessary meetings, and get more done faster. Wilson shows how to apply PM to complete crucial "smaller" tasks that can deliver rapid and sizable improvements. You'll learn how to plan, implement, and measure the success of high-impact changes, and organize key tasks so they actually get done. Discover specific techniques for



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eliminating waste in engineering, manufacturing, distribution, and inventory. Next, learn how to use PM to manage teams, schedules, budgets, and resources more effectively, and systematically predict and mitigate operational risks. Whatever your role in operations management, this unique eBook collection will help you perform far more effectively - in your organization, and in your career! From world-renowned operations management experts Hillel Glazer, Arthur V. Hill, and Randal Wilson

Production and Inventory Management  
Zero Inventories

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Target

Readings in Zero Inventory

Articles Selected by the Just-in-Time  
Committee of the APICS Curricula and  
Certification Council