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Manufacturing in America, 2. Inventory Control: From EOQ to ROP, 3. The MRP Crusade, 4.

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Third Edition. Wallace J. Hopp, Mark L. Spearman. Our economy and future way of life depend on how well American manufacturing managers adapt to the dynamic, globally competitive landscape and evolve their firms to keep pace. A major challenge is how to structure the firm ' s environment so that it attains the speed and low cost of high-volume flow lines while retaining the flexibility and customization potential of a low-volume job shop.

## Waveland Press - Factory Physics, Third Edition, by ...

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Hopp/Spearman have built and improved an essential guide to the fundamental principles of operations analysis. After years of hearing Factory Physics praised by my Industrial Engineering colleagues, I finally got it. As a practitioner and teacher I cannot overstate that this is essential knowledge of the dynamics of operating systems.

After a brief introductory chapter, Factory Physics 3/e is divided into three parts: I – The Lessons of History; II – Factory Physics; and III – Principles in Practice.

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The scientific approach to manufacturing and supply chain management, developed in Part II, is unique to this text. No other text or professional book provides a rigorous, principles-based foundation for manufacturing management. The Third Edition offers tighter connections between Lean Manufacturing, MRP/ERP, Six Sigma, Supply Chain Management, and Factory Physics. In addition to enhancing the historical overview of how these systems evolved, the authors show explicitly how users can achieve Lean Manufacturing objectives (faster response, less inventory) using the integration aspects of MRP/ERP/SCM systems along with the variance analysis methods of Six Sigma. Factory Physics provides the overarching framework that coordinates all of these initiatives into a single-focused strategy.

Our economy and future way of life depend

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on how well American manufacturing managers adapt to the dynamic, globally competitive landscape and evolve their firms to keep pace. A major challenge is how to structure the firms environment so that it attains the speed and low cost of high-volume flow lines while retaining the flexibility and customization potential of a low-volume job shop. The books three parts are organized according to three categories of skills required by managers and engineers: basics, intuition, and synthesis. Part I reviews traditional operations management techniques and identifies the necessary components of the science of manufacturing. Part II presents the core concepts of the book, beginning with the structure of the science of manufacturing and a discussion of the systems approach to problem solving. Other topics include behavioral tendencies of manufacturing plants, push and pull production systems,

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the human element in operations management, and the relationship between quality and operations. Chapter conclusions include main points and observations framed as manufacturing laws. In Part III, the lessons of Part I and the laws of Part II are applied to address specific manufacturing management issues in detail. The authors compare and contrast common problems, including shop floor control, long-range aggregate planning, workforce planning and capacity management. A main focus in Part III is to help readers visualize how general concepts in Part II can be applied to specific problems. Written for both engineering and management students, the authors demonstrate the effectiveness of a rule-based and data driven approach to operations planning and control. They advance an organized framework from which to evaluate management practices and develop useful intuition about

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Managers face an infinite range of situations and problems that involve bringing materials and information together to produce and deliver goods and services to customers. In Hopp's solid, practical introduction to manufacturing and supply chain dynamics, managers learn how to use the scientific approach to understand why systems behave the way they do as an effective way to deal with almost any scenario they may face. Written in a reader-friendly style, the text includes useful examples from manufacturers as well as service providers, presents the key concepts that underlie the behavior of operations systems in a largely non-mathematical way, contains illustrations and analogies to everyday life, links theory to practice, and reinforces the learning process with end-of-chapter Questions for Thought.

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"In Hospital Operations, two leading Operations Management experts and five practicing clinicians demonstrate how to apply new OM advances and metrics to substantially improve any hospital's performance. Replete with examples, Hospital Operations shows how to generate principles-driven breakthrough ideas to systematically improve emergency departments, operating rooms, nursing units, and diagnostic units." -- Back cover

Mastering the Supply Chain is an introduction to supply chain management. The book integrates theory with practice and aims to create a cross-functional mindset in students and practitioners. It provides a wide overview of relevant supply chain concepts and sets out the challenges that need to be overcome in order to find practical ways of implementing these in a

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real company situation. Readers are continuously asked to actively reflect on the choices they make, thus experiencing first-hand the many challenges that good and effective supply chain management presents. Mastering the Supply Chain presents a different way of learning that puts the reader at the heart of a life-like situation, so that they experience the impact of every decision they make, not just in their own 'silo' but across the business. In this way, they will learn that many supply chain concepts are relatively simple to understand, but not so easy to apply in reality. Chapter 6 helps students to pull everything they've learned together and see how the concepts play out in the real world by guiding them through an interactive demonstration of the online business simulation game The Fresh Connection (free access is included with the book). This is a key text for students on supply chain management BScs and MScs as

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well as background reading for students playing the full version of The Fresh Connection Business Simulation game.

This text provides a survey of the analytical methods used to support the functions of production and operations management. This latest edition continues to bring the most thorough coverage of cutting-edge quantitative models used in operations, while presenting it in a clean, easy to understand fashion. There are many new problems both solved and unsolved for students to comprehend the quantitative material of the book. Furthermore, we have enhanced the technology package of this book to have more applied learning of concepts and skills for students. Lastly, technology, such as the internet, ecommerce, etc has been added to reflect the changes in how business is conducted. This text reflects Steve Nahmias' extensive

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teaching background and experience in both business and engineering schools. .

TQM, Reengineering, Theory of Constraints, JIT, Six Sigma, Lean Manufacturing . . . These are just some of the methods that, over the past five decades, have promised to transform any manufacturing firm into a lean, mean, moneymaking machine. While each incorporates certain fundamental truths, strengths, and benefits, they are not panaceas. Nor do they necessarily provide much-needed insight into the science that underlies factory performance. James Ignizio, Ph.D., an internationally recognized performance optimization expert, believes that only a balanced approach will provide the significant and sustainable improvement required of firms who will survive and prosper in the twenty-first century. In this breakthrough guide, Dr. Ignizio picks up

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where such concepts as Six Sigma and Lean Manufacturing leave off to provide you with a holistic, three-dimensional approach to mastering the art and science of manufacturing. Focusing on the three primary enemies of factory performance—complexity, variability, and lackluster leadership—Optimizing Factory Performance cuts to the heart of the problem of less-than-world-class performance and demonstrates how those enemies manifest themselves in companies across manufacturing sectors. Ignizio also explores the insidious effect company politics and flagging commitment to manufacturing performance have on competitiveness. Emphasizing the all-important, often overlooked third dimension of manufacturing—factory protocols—Ignizio describes the types of strategic and tactical changes to physical plant and operating procedures any

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Company can make to achieve performance improvements. In addition, he arms you with powerful, original metrics for measuring and comparing factory performance, as well as a set of interactive simulation models, available online at [www.mhprofessional.com/ignizio](http://www.mhprofessional.com/ignizio). Running throughout the book is an often amusing, always instructive account of the fictional high-tech firm, Muddle, Inc., which helps support the concepts discussed in the real world of manufacturing, while reinforcing key lessons learned. Read *Optimizing Factory Performance* and find out how to transform your organization into the kind of fast, agile manufacturer that delivers the right products to the right customers at the right time— every time.

Responding to the demand by researchers and practitioners for a comprehensive reference, *Handbook of Industrial and*

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return with existing Lean, Six Sigma, and ERP initiatives Manage your capacity, inventory, response time, and variability with high predictability Simplify management of complexity using existing IT systems Use the fundamentals of science to ensure your operation ' s success See your company and procedures more clearly Improve intuition, decision making, and strategy execution A strategy of imitation is not much of a strategy. Most every company uses the common continuous improvement initiatives. This highly accessible guide addresses but goes beyond other business approaches such as Lean, Six Sigma, and Theory of Constraints by offering a customizable plan that you can apply to any manufacturing-based industry or supply chain. You ' ll discover invaluable tools for developing operations strategy and driving execution by using practical science to assess your procedures, target problems, and find

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Solutions. You ' ll learn essential life lessons from the best—and worst—practices of corporate leaders like Toyota and Boeing. You ' ll find ingenious new ways to improve your leadership by predictively managing the tradeoffs that every operation faces—whether it ' s more or less inventory or capacity, higher or lower customer service, or more or fewer products. Using this approach, you can tackle these natural conflicts in business through a practical, comprehensive science of operations. Factory Physics for Managers makes it easier to choose and execute the best strategy for better productivity—and even bigger profits. Praise for Factory Physics for Managers “ Factory Physics for Managers is a proven path to flawless execution and results. Leading vs. following in our industry is predicated on the relentless pursuit of putting order to chaos. Factory Physics science and CSUITE software have given

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The central task of phenomenology is to investigate the nature of consciousness and its relations to objects of various types. The present book introduces students and other readers to several foundational topics of phenomenological inquiry, and illustrates phenomenology ' s contemporary relevance. The main topics include consciousness, intentionality, perception, meaning, and knowledge. The book also contains critical assessments of Edmund Husserl ' s phenomenological method. It argues that knowledge is the most fundamental mode of consciousness, and that the central theses constitutive of Husserl ' s "transcendental idealism" are compatible with metaphysical realism regarding the objects of thought, perception, and knowledge. Helpful tools include introductions that help the reader segue

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from the previous chapter to the new one, chapter conclusions, and suggested reading lists of primary and some key secondary sources. Key Features: Elucidates and engages with contemporary work in analytic epistemology and philosophy of mind Provides clear prose explanations of the necessary distinctions and arguments required for understanding the subject Places knowledge at the center of phenomenological inquiry

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