

FACTORY PHYSICS

Third Edition

Wallace J. Hopp
Mark L. Spearman



Factory Physics 3rd Edition

Wallace J. Hopp



Factory Physics 3rd Edition:

Factory Physics Wallace J. Hopp, Mark L. Spearman, 2011-08-31 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. The book's 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, 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 manufacturing systems.

Factory Physics Wallace J. Hopp, Mark L. Spearman, 2001 Publisher Description **Factory Physics.** Wallace Hopp, 2000-04 *Factory Physics* Wallace J. Hopp, 2011 **Factory Physics** Wallace Hopp, Mark Spearman, 2007-10-24 After a brief introductory chapter, *Factory Physics 3e* is divided into three parts: I The Lessons of History, II *Factory Physics*, and III Principles in Practice. 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.

Factory Physics Wallace Hopp, 1995-09 After a brief introductory chapter, *Factory Physics 3e* is divided into three parts: I The Lessons of History, II *Factory Physics*, and III Principles in Practice. 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

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The Extended Enterprise Edward Wilson Davis, Robert E. Spekman, 2004 Today constellations of firms ally against each other and the firm that stands alone may fail alone Now there s a start to finish guide to the opportunities facing extended enterprises This book show why extended enterprises demand radically new buyer supplier relationships why traditional business structures inhibit alliances and how to develop the competencies a company needs

Building Lean, Building BIM Rafael Sacks, Samuel Korb, Ronen Barak, 2017-12-06 Building Lean Building BIM is the essential guide for any construction company that wants to implement Lean Construction and Building Information Modelling BIM to gain a strategic edge over their competition The first of its kind the book outlines the principles of Lean the functionality of BIM and the interactions between the two illustrating them through the story of how Tidhar Construction has implemented Lean Construction and BIM in a concerted effort over four years Tidhar is a small to medium sized construction company that pioneered a way of working that gave it a profit margin unheard of in its market The company s story serves as a case study for explanation of the various facets of Lean Construction and BIM Each chapter defines a principle of Lean and or BIM describes the achievements and failures in Tidhar s implementation based on the experiences of the key people involved and reviews the relevant background and theory The implementation at Tidhar has not been a pure success but by examining their motives alongside their achievements and failures readers will learn about what pitfalls and pinnacles to expect A number of chapters also compare the experience of Tidhar with those of other companies who are leaders in their fields such as Skanska and DPR This book is highly relevant and useful to a wide range of readers from the construction industry especially those who are frustrated with the inefficiencies in their companies and construction projects It is also essential reading for Lean and BIM enthusiasts researchers and students from a variety of industries and backgrounds

Operations Management for Business Excellence David Gardiner, Hendrik Reefke, 2019-10-28 All businesses strive for excellence in today s technology based environment in which customers want solutions at the touch of a button This highly regarded textbook provides in depth coverage of the principles of operations and supply chain management and explains how to design implement and maintain processes for sustainable competitive advantage This text offers a unique combination of theory and practice with a strategic results driven approach Now in its fourth edition Operations Management for Business Excellence has been updated to reflect major advances and future trends in supply chain management A new chapter on advanced supply chain concepts covers novel logistics technology information systems customer proximity sustainability and the use of multiple sales channels As a platform for discussion the exploration of future

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