

FACTORY PHYSICS

Third Edition

Wallace J. Hopp
Mark L. Spearman



Factory Physics 3rd Edition

David Baud



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, 2007 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

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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

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EBOOK: Operations Management: Theory and Practice: Global Edition STEVENSON, WILL, 2019-01-11 EBOOK Operations Management Theory and Practice Global Edition

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