

# FACTORY PHYSICS

*Third Edition*

Wallace J. Hopp  
Mark L. Spearman



# Factory Physics Solutions

**Wallace J. Hopp, Mark L. Spearman**



## **Factory Physics Solutions:**

**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. [Planning Production and Inventories in the Extended Enterprise](#)

Karl G. Kempf, Pinar Keskinocak, Reha Uzsoy, 2011-01-12 In two volumes, *Planning Production and Inventories in the Extended Enterprise*, a State of the Art Handbook examines production planning across the extended enterprise against a backdrop of important gaps between theory and practice. The early chapters describe the multifaceted nature of production planning problems and reveal many of the core complexities. The middle chapters describe recent research on theoretical techniques to manage these complexities. Accounts of production planning systems currently in use in various industries are included in the later chapters. Throughout the two volumes, there are suggestions on promising directions for future work focused on closing the gaps.

**Proceedings of the Second Kaon Factory Physics Workshop, Vancouver, August 10-14, 1981** R. M. Woloshyn, A. Strathdee, Triumf, 1981 **Factory Physics for Managers (PB)**

Edward S. POUND, Jeffrey H. Bell, Mark L. Spearman, 2014-04-04 From the award-winning developers of *Factory Physics*, a powerful leadership guide for breakthrough performance. A comprehensive guide that cuts through the hodgepodge of copycat initiatives, overblown buzzwords, confusing mathematics, and misguided software. *Factory Physics for Managers* is a breath of fresh air for operations managers and executives. Written by the leaders and experts behind the bestselling *Factory Physics*, it's a brilliant crash course in the practical science of operations designed to help you achieve best possible profit.

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