

FACTORY PHYSICS

Third Edition

Wallace J. Hopp
Mark L. Spearman



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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. **Springer Handbook of Mechanical Engineering**

Karl-Heinrich Grote, Erik K. Antonsson, 2009-01-13 This resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions. It features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems. Each subject is discussed in detail and supported by numerous figures and tables.

Building Resilience into Production: Contemporary Challenges for the Future Mihai Dragomir, Daniela Popescu, Chin-Yin Huang, Shun-Fung Chiu, Luis Quezada, 2025-08-02 This book contains the proceedings of the 27th International Conference on Production Research (ICPR). ICPR is a biennial conference that has been hosted for more than a half century. It is regarded worldwide as one of the leading conferences on production research, industrial engineering, and related subjects. This year's conference has a special focus on advances in production resilience through digital technologies, sustainability, and the management of disruptive events. This book is of interest to researchers, students, and professionals in industry. The Lean Practitioner's Field Book Charles Protzman, Fred Whiton, Joyce Kerpchar, Christopher Lewandowski, Steve Stenberg, Patrick Grounds, 2018-09-03 While there are numerous Lean Certification programs, most companies have their own certification paths whereby they bestow expert status upon employees after they have participated

in or led a certain number of kaizen events Arguing that the number of kaizen events should not determine a person's expert status The Lean Practitioner's Field Book Proven Practical Profitable and Powerful Techniques for Making Lean Really Work outlines a true learning path for anyone seeking to understand essential Lean principles The book includes a plethora of examples drawn from the personal experiences of its many well respected and award winning contributors These experts break down Lean concepts to their simplest terms to make everything as clear as possible for Lean practitioners A refresher for some at times the text provides thought provoking questions with examples that will stimulate learning opportunities Introducing the Lean Practitioner concept the book details the five distinct Lean Practitioner levels and includes quizzes and criteria for each level It highlights the differences between the kaizen event approach and the Lean system level approach as well as the difference between station balancing and baton zone This book takes readers on a journey that begins with an overview of Lean principles and culminates with readers developing professionally through the practice of self reliance Providing you with the tools to implement Lean tools in your organization the book includes discussions and examples that demonstrate how to transition from traditional accounting methods to a Lean accounting system The book outlines an integrated structured approach identified by the acronym BASICS baseline analyze suggest solutions implement check and sustain which is combined with a proven business strategy to help ensure a successful and sustainable transformation of your organization

Experiencing Archaeology by Experiment Penny Cunningham, Julia Heeb, Roeland Paardekooper, 2008 There is a growing trend among archaeologists to re create artefacts and actions at a 1:1 scale in order to answer questions and gain new insights into the past In November 2007 the University of Exeter hosted a one day conference on experimental archaeology and it was soon discovered that experience is a key issue in understanding the use of materials and past processes Papers presented in this volume consider both theoretical issues and practical case studies The scope ranges from skinning animals or dyeing wool the Roman way to producing sound with flint tools carving stone on Chalcolithic Cyprus or casting bronze objects both as art and science in Ireland The eight chapters in this book demonstrate the myriad possibilities of archaeology by experiment Experimental archaeology is multi disciplinary by nature with examples from anthropology ethnography taxidermy finite element analysis and manufacturing systems theory all being present in this volume Not only does this sub discipline have a colourful and meaningful past but it will surely have a significant future *Forthcoming*

Books Rose Arny, 1999 **Books in Print Supplement**, 2002 **Factory Physics** Wallace J. Hopp, Mark L. Spearman, 2001 Publisher Description **Factory Physics.** Wallace Hopp, 2000-04 **The British National Bibliography** Arthur James Wells, 2001

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