
FACTORY PHYSICS

Foundations of Manufacturing Management

SECOND EDITION

Wallace J. Hopp

Northwestern University

Mark L. Spearman

Georgia Institute of Technology



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Wallace Hopp Factory Physics Solutions Manual

Arthur James Wells



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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.

Manufacturing Mastery Rebecca Morgan, 2021-08-31 While there are those who say manufacturing is dying, it is not and will not. Without a universal vow of poverty, growing economies will only increase demand. Manufacturing in the 21st century is not a question of if. Rather, it is a function of why, what, who, where, and how. The nature and pace of change in those factors are overwhelming many. Fear, futile resistance, and uncertainty are common. While manufacturing will not die, individual manufacturing companies will if they do not learn to thrive in this new world. This book is a dynamic guide for manufacturing leaders who want to reduce the ambiguity and overwhelming changes and develop a realistic, progressive, and responsive thinking process that enables success. It provides a business operating system framework that is the foundation for connecting the many pieces of a manufacturing business into an effective, profitable operation. The author walks through the elements, relationships, capabilities, and mutability of 21st century manufacturing. Executives of manufacturing companies will be better able to think about and execute viable strategies, leveraging the changing economy. Essentially, manufacturing is becoming increasingly complex, as are business and socioeconomic and political realities. Rapidly evolving technology adds to the confusing environment that precludes more of the same: better, faster, and cheaper as a workable business strategy. The tsunami of information hitting owners and leaders is overwhelming many, and it is easy to become frozen in place. Economic

growth and improving standards of living require that all of this change be broken into bite size understandable pieces that thaw the minds of executives allowing them to assess what is best right now and move forward This book does not overwhelm with details and models rather it provides thinking and examples in small chunks that enable manufacturers to develop and master skills for high level strategic leadership in ambiguity **Forthcoming Books** Rose Arny,1999

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