

FACTORY PHYSICS

Third Edition

Wallace J. Hopp
Mark L. Spearman



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Clifford Lane



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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. *Forthcoming Books* Rose Arny, 1999

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The objective of this dissertation is to enhance the overall understanding of practical manufacturing systems by using rigorous academic approaches primarily queueing theory The scope spans from the performance of a single manufacturing process to the performance of a manufacturing system Queueing models are commonly used to evaluate the performance of manufacturing systems Exact M M 1 or approximations of G G 1 models are usually adopted to describe the behavior of a single machine system However when applying queueing models to a single machine some practical issues are encountered A real machine is subject to different types of interruptions such as breakdowns setups and routine maintenance The proper queueing models under interruptions are presented The behavior of manufacturing systems is explored by first investigating the underlying structure of tandem queues We introduce two properties describing the dependence among servers in tandem queues namely the intrinsic gap and intrinsic ratio and develop a new approximation approach The approach exploits what we call the nearly linear and heavy traffic properties of the intrinsic ratio Across a broad range of examined cases this new approach outperforms earlier approximations that are based on the parametric decomposition and diffusion approximation approaches We also demonstrate its use with historical data to achieve very accurate queue time estimates Furthermore based on the structure of tandem queues a way to model the performance of manufacturing systems has been developed

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