

# FACTORY PHYSICS

*Third Edition*

Wallace J. Hopp  
Mark L. Spearman



# Factory Physics

**Wallace Hopp**



## Factory Physics:

**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, 2000-04 *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, cash flow, and customer service. Attain highest return with existing Lean, Six Sigma, and ERP initiatives. Manage your capacity, inventory, response time, and variability with high predictability. Simplify management of complexity using existing IT systems. Use the fundamentals of science to ensure your operation's success. See your company and procedures more clearly. Improve intuition, decision making, and strategy execution. A strategy of imitation is not much of a strategy. Most every company uses the common continuous improvement initiatives. This highly accessible guide addresses but goes beyond other business approaches such as Lean, Six Sigma, and Theory of Constraints by offering a customizable plan that you can apply to any manufacturing-based industry or supply chain. You'll discover invaluable tools for developing operations strategy and driving

execution by using practical science to assess your procedures target problems and find solutions You ll learn essential life lessons from the best and worst practices of corporate leaders like Toyota and Boeing You ll find ingenious new ways to improve your leadership by predictively managing the tradeoffs that every operation faces whether it s more or less inventory or capacity higher or lower customer service or more or fewer products Using this approach you can tackle these natural conflicts in business through a practical comprehensive science of operations Factory Physics for Managers makes it easier to choose and execute the best strategy for better productivity and even bigger profits Praise for Factory Physics for Managers Factory Physics for Managers is a proven path to flawless execution and results Leading vs following in our industry is predicated on the relentless pursuit of putting order to chaos Factory Physics science and CSuite software have given our organization the ability to plan predict model and execute based on explosive growth and rapid fire dynamic changes to our business model In our case history is not a good predictor of the future so we need to deploy our resources wisely and the Factory Physics approach has helped us do just that Larry Doerr COO Stratasys Shows how the science behind Lean initiatives can greatly improve results in terms of productivity and resources Bill Fierle Vice President and General Manager TopWorx Emerson Brings powerful accessible science to operations management The Factory Physics playbook enables me to lead the harnessing of our data more effectively for modeling planning control and feedback Armed with the concepts common language and tools in this book I can partner with operations leadership to impact the bottom line Jeffrey Korman CIO Hu Friedy Mfg LLC Chicago

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**Factory Physics** Wallace Hopp,Mark Spearman,2007-10-24 After a brief introductory chapter Factory Physics 3 e 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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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 Beyond the Theory of Constraints William A. Levinson, 2019-09-16 The basic principle of the Theory of Constraints TOC is the impossibility of running a balanced factory at 100 percent capacity Variation in processing and material transfer times is the root cause of longer cycle times and higher inventories which can hinder the ability to run a factory at full capacity In Beyond the Theory of Constraints William Levinson challenges this basic principle by stating that variation in processing and material transfer times comes from special or assignable causes that can be eliminated through traditional quality management techniques Even random or common cause variation can be suppressed through lean manufacturing methods This compelling book Gives a complete overview of the Theory of Constraints and its impact on engineering and managerial economics Illustrates the effect of variation in processing and material transfer times and shows why this variation prevents achievement of 100 percent utilization Describes methods for reducing variation in processing and material transfer times Discusses methods for increasing productivity and reducing cycle times these are useful for elevating the constraint increasing its capacity and reduce variation This book will teach business executives managers and technical professionals including quality and manufacturing engineers how to identify and remove variations and maximize capacity to achieve bottom line results **The Ultimate Improvement Cycle** Bob Sproull, 2012-11-12 Recognizing the need to implement quality and eliminate waste companies embrace Lean Six Sigma or a combination of the two typically taking a broad approach that seeks to remediate every process critical or not When this happens efforts become distracted improvements indefinitely delayed and results mediocre at best The Ultimate Improvement Cycle UIC integrates Lean Six Sigma and the Theory of Constraints into a combined strategy that will help you immediately focus your efforts on those areas that will make the greatest difference The book presents basic laws of factory physics that show why the UIC delivers significant bottom line improvement while other initiatives so often fail It explains to you why focusing your efforts on apparent problems rather than systemic concerns is wasted effort Focus on key areas and take improvement to the next level The Ultimate Improvement Cycle Maximizing Profits through the Integration of Lean Six Sigma and the Theory of Constraints show you how to draw the best from Lean and Six Sigma by employing principles drawn from the Theory of Constraints This approach will ensure that your effort is focused in the right place at the right time using the right tools and the right amount

of resources This multi pronged approach addresses cost accounting variation waste and performance measurements But most importantly it focuses your organization on the right areas to optimize Applying years of hands on work in many environments Bob Sproull has developed a unique proven method that capitalizes on a time release formula for evoking the key tools that improvement requires He shows you how to take advantage of the cyclical nature of improvement to implement change that is perpetually effective and his approach does not require more resources than you have on hand Although originally developed in manufacturing the UIC works equally well in any environment whether it be manufacturing or service oriented including Maintenance Repair and Overhaul MRO and Critical Chain Project Management CCPM **Third**

**Workshop on the Tau-Charm Factory** Jasper Kirkby,Rita Kirkby,1994 *The Extended Enterprise* Edward Wilson Davis,Robert E. Spekman,2004 Today constellations of firms ally against each other and the firm that stands alone may fail alone Now there s a start to finish guide to the opportunities facing extended enterprises This book show why extended enterprises demand radically new buyer supplier relationships why traditional business structures inhibit alliances and how to develop the competencies a company needs *Lean Production Simplified, Second Edition* Pascal Dennis,2007-03-02 Winner of a Shingo Research and Professional Publication Award *Lean Production Simplified Second Edition* is a plain language guide to the lean production system written for the practitioner by a practitioner It delivers a comprehensive insider s view of lean manufacturing The author helps the reader to grasp the system as a whole and the factors that animate it by organizing the book around an image of a house of lean production Highlights include A comprehensive view of Toyota1s lean manufacturing system A look at the origins and underlying principles of lean Identifying the goals of lean production Practical problem solving for lean production Activities that support involvement Kaizen circles suggestion systems and problem solving This second edition has been updated with expanded information on the Lean Improvement Process Production Physics and Little s Law the fundamental equation for both manufacturing and service industries cycle time work in process throughput Value Stream Thinking combining processes required to bring the product or service to the customer Hoshin Planning using the Planning and Execution Tree diagram and Problem Solving including the Five Why method and how to use it *Lean Production Simplified Second Edition* covers each of the components of lean within the context of the entire lean production system The author s straightforward common sense approach makes this book an easily accessible on the floor resource for every operator KEK International Workshop on High Intensity Muon Sources Yoshitaka Kuno,Takeichiro Yokoi,2001 This volume presents the possibility of high intensity muon sources whose intensity would be at least 104 higher than that available now Scientific opportunities anticipated with such sources are search for muon lepton flavor violation measurements of the muon anomalous magnetic moment and the electric dipole moment neutrino factories based on a muon storage ring muon collider and muon applied science such as muon catalyzed fusion and biology In addition to physics opportunities the necessary technology for such sources is discussed High Intensity Muon

Sources - Kek International Workshop Yoshitaka Kuno,Takeichiro Yokoi,2000-12-29 This volume presents the possibility of high intensity muon sources whose intensity would be at least  $10^4$  higher than that available now Scientific opportunities anticipated with such sources are search for muon lepton flavor violation measurements of the muon anomalous magnetic moment and the electric dipole moment neutrino factories based on a muon storage ring muon collider and muon applied science such as muon catalyzed fusion and biology In addition to physics opportunities the necessary technology for such sources is discussed Learning from the Past, Present, and Future to Drive Profits to New Levels Bob Sproull,2023-11-23

The content of this book is centered around three seemingly diverse themes The first theme is why it s so important for companies to learn from the past the present and the future The author covers some of the key learnings from the distant and current past and how these learnings changed the course for many companies He discusses new learnings that have been developed in our current state and will continue to be brought forward He provides a look into the future just to make sure companies understand that they should always be looking for better ways to function The second theme is centered around problem solving problem prevention and decision making That is how to successfully define problems that already exist in your current reality how to prevent problems from occurring in the future and how to make much more effective decisions Problems have plagued many companies for many years and knowing how to follow a structured approach to solve them should prove to be very useful And perhaps even more important than solving problems is how companies can go about preventing the problems from occurring in the first place Think about how your company might look if the plethora of problems to solve didn t exist And with current or potential problems many decisions must be made The final theme in this book is how to successfully implement the Theory of Constraints and then combine Lean Manufacturing Six Sigma and the Theory of Constraints The Theory of Constraints should be considered the missing link in most improvement initiatives The author presents in detail why combining the Theory of Constraints with Lean and Six Sigma and all of the associated improvement tools and techniques will take your company to new levels of profitability He introduces two new roadmaps One roadmap is on how to implement the Theory of Constraints while the other new roadmap is how to implement my Ultimate

Improvement Cycle **The Department of Energy Fiscal Year 2008 Research and Development Budget Proposal** United States. Congress. House. Committee on Science and Technology (2007). Subcommittee on Energy and Environment,2008 **Service Operations Dynamics** Henk Akkermans,2018-04-24 This innovative book presents an up to

date account of service operations spanning topics such as IT enabled services service supply chain and volatility of demand and supply Combining a systems perspective with a focus on service supply chains the chapters provide a clearly framed set of mechanisms and theories with a focus on innovation driven sectors and the game changing role of IT With each chapter built around real life examples and service companies the primary services supply chain is discussed alongside four key stakeholder groups workforce customers and markets buyers and suppliers and IT and innovations **Quick Response**

**Manufacturing** Rajan Suri, 2020-10-28 Developed by the author and now being employed by a number of businesses Quick Response Manufacturing QRM is an expansion of time based competition aimed at a single target with the goal of reducing lead times The key difference between QRM and other time based programs is that QRM covers an entire organization from the shop floor to the office to sales and beyond Providing guidelines for establishing a QRM enterprise this volume builds upon kaizen TQM TPM and other practice to help organizations streamline all functions of their operation It shows how to quickly introduce products along with ways to rethink materials and production management Nonlinear Dynamics of Production Systems Günter Radons, Reimund Neugebauer, 2006-03-06 This reference work provides a comprehensive insight into past developments in the application of non linear dynamics such as production systems in the manufacturing and process engineering mechanical engineering and plant construction and automation technology As such it is the first publication to document the successful implementation of non linear dynamics into current tasks or problems of engineering thus far unsolved The interdisciplinary team of contributors from research and industry establishes ties between mechanical methods of manufacturing and new methods reaching the dynamics of production lines and complete production systems

**McLaughlin & Kaluzny's Continuous Quality Improvement in Health Care** Julie K. Johnson, William A. Sollecito, 2018-10-08 Through a unique interdisciplinary perspective on quality management in health care this text covers the subjects of operations management organizational behavior and health services research With a particular focus on Total Quality Management TQM and Continuous Quality Improvement CQI the challenges of implementation and institutionalization are addressed using examples from a variety of health care organizations including primary care clinics hospital laboratories public health departments and academic health centers Significantly revised throughout the Fifth Edition offers a greater focus on application techniques and features 14 chapters in lieu of the prior edition's 20 chapters making it an even more effective teaching tool New chapters have been incorporated on Implementation Science 3 Lean Six Sigma 6 and Classification and the Reduction of Medical Errors 10



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