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Factory Physics, 3rd Edition. 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 firms 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.

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Synthesis-Pulling It All Together 647 19.1 The Strategic Importance of Details 647 19.2 The Practical Matter of Implementation 648 19.2.1 A Systems Perspective 648 19.2.2 Initiating Change 649 19.3 Focusing Teamwork 650 19.3.1 Pareto's Law 651 19.3.2 Factory Physics Laws 651 19.4 A Factory Physics Parable 654 19.4.1 Hitting the Trail 654 19.4.2 The Challenge 657 19.4.3 The Lay of the Land 657 ...

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[Source : 4e de couv.]

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 firms 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 books 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.

Managers face an infinite range of situations and problems that involve bringing materials and information together to produce and deliver goods and services to customers. In Hopps solid, practical introduction to manufacturing and supply chain dynamics, managers learn how to use the scientific approachto understand why systems behave the way they doas an effective way to deal with almost any scenario they may face. Written in a reader-friendly style, the text includes useful examples from manufacturers as well as service providers, presents the key concepts that underlie the behavior of operations systems in a largely non-mathematical way, contains illustrations and analogies to everyday life, links theory to practice, and reinforces the learning process with end-of-chapter Questions for Thought.

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

Accessible and flexible, MODERN PHYSICS, Third Edition has been specifically designed to provide simple, clear, and mathematically uncomplicated explanations of physical concepts and theories of modern physics. The authors clarify and show support for these theories through a broad range of current applications and examples-attempting to answer questions such as: What holds molecules together? How do electrons tunnel through barriers? How do electrons move through solids? How can currents persist indefinitely in superconductors? To pique student interest, brief sketches of the historical development of twentieth-century physics such as anecdotes and quotations from key figures as well as interesting photographs of noted scientists and original apparatus are integrated throughout. The Third Edition has been extensively revised to clarify difficult concepts and thoroughly updated to include rapidly developing technical applications in quantum physics. To complement the analytical solutions in the text and to help students visualize abstract concepts, the new edition also features free online access to QMTools, new platform-independent simulation software created by co-author, Curt Moyer, and developed with support from the National Science Foundation. Icons in the text indicate the problems designed for use with the software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Perspectives in Computation covers three broad topics: the computation process & its limitations; the search for computational efficiency; & the role of quantum mechanics in computation.

Alex Rogo is a harried plant manager working ever more desperately to try and improve performance. His factory is rapidly heading for disaster. So is his marriage. He has ninety days to save his plant - or it will be closed by corporate HQ, with hundreds of job losses. It takes a chance meeting with a colleague from student days - Jonah - to help him break out of conventional ways of thinking to see what needs to be done. Described by Fortune as a 'guru to industry' and by Businessweek as a 'genius', Eliyahu M. Goldratt was an internationally recognized leader in the development of new business management concepts and systems. This 20th anniversary edition includes a series of detailed case study interviews by David Whitford, Editor at Large, Fortune Small Business, which explore how organizations around the world have been transformed by Eli Goldratt's ideas. The story of Alex's fight to save his plant contains a serious message for all managers in industry and explains the ideas which underline the Theory of Constraints (TOC) developed by Eli Goldratt. Written in a fast-paced thriller style, The Goal is the gripping novel which is transforming management thinking throughout the Western world. It is a book to recommend to your friends in industry - even to your bosses - but not to your competitors!

Collected here are 112 papers concerned with new directions in manufacturing systems, given at the 41st CIRP Conference on Manufacturing Systems. The high-quality material includes reports of work from both scientific and engineering standpoints.

Now a classic, this is the fundamental text for those seeking a "Spiritual Understanding of Nature on the Basis of Goethe's Method of Training Observation and Thought." Working out of a detailed history of science, Lehrs reveals to the reader not only how science has been inescapably led to the illusions it holds today, but more importantly, how the reader may correct in himself these misconceptions brought into his world view through modern education.

This book presents a general conceptual framework to translate principles of system science and engineering to service design. Services are co-created immaterial, heterogeneous, and perishable state changes. A service system includes the intended benefit to the customer and the structure and processes that accomplish this benefit. The primary focus is on the part of the service system that can reproduce such processes, called here a Service Machine, and methodological guidelines on how to analyze and design them. While the benefit and the process are designed based on the domain knowledge of each respective field, service production systems have common properties. The Service Machine is a metaphor that elicits the fundamental characteristics of service systems that do something efficiently, quickly, or repeatedly for a defined end. A machine is an artifact designed for a purpose, has several parts, such as inputs, energy flows, processors, connectors, and motors assembled as per design specifications. In case of service machine, the components are various contracts assembled on contractual frames. The book discusses Emergency Medical Services (EMS) and Emergency Departments (ED) as cases. They illustrate that service machines need to be structured to adapt to the constraints of the served market acknowledging the fact that services are co-created through the integration of producers ' and customers ' resources. This book is highly recommended for those who are interested in understanding the fundamental concepts of designing service machines.