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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.

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

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.

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.

In 2005, Goodyear s research and development (R&D) engine was not performing up to its full potential. The R&D organization developed high-quality tires, but the projects were not always successful. Goodyear embarked on a major initiative to transform its innovation creation processes by learning, understanding, and applying lean product development principles. Within five years, Goodyear saw its product development cycle times slashed by 70 percent, on-time delivery performance rise close to 100 percent, and throughput improve three-fold all achieved with no increase in the R&D budget. Lean-Driven Innovation: Powering Product Development at The Goodyear Tire & Rubber Company describes in great detail how the Goodyear team was able to achieve such significant improvements. Revealing the ups and downs of this successful transformation, the book shares experiences of how this seismic change was managed, how people were engaged, and how Goodyear dramatically reinvigorated its product development and innovation processes and, in the process, delivered substantial more value to customers and to the company. The book also explains how lean product development helped Goodyear dramatically improve revenue by having every new product available when the market needed it. Presenting wide-ranging perspectives from all levels of leadership, this book is ideal for anyone in R&D daring to take on a lean initiative in R&D or who is struggling with a lean transformation that is not delivering to its full potential. Since the book focuses on universal lean principles, it is as insightful to other manufacturing and nonmanufacturing disciplines in any industry as well. The book presents invaluable insights gained by the author during his 36 years within Goodyear, of which 10 have been directly involved in trying to develop, implement, and sustain lean to achieve the company s business objectives. It distills ideas, practices, failures, and successes into key principles that lean product development practitioners can easily implement. After reading this book, you will gain a practical path for applying lean to the innovation processes of your organization, including where to begin and what to do, regardless of the industry and the status of your transformation. Watch Norbert Majerus discuss Lean-Driven Innovation at: https://youtu.be/yIlJEMJIcyA

Model a Thermal System without Lengthy Hand Calculations Before components are purchased and a thermal energy system is built, the effective engineer must first solve the equations representing the mathematical model of the system. Having a working mathematical model based on physics and equipment performance information is crucial to finding a system s operating point. Thermal Energy Systems: Design and Analysis offers a fundamental working knowledge of the analysis and design of thermal-fluid energy systems, enabling users to effectively formulate, optimize, and test their own design projects. Providing an understanding of the basic concepts of simulation and optimization, and introducing simulation and optimization techniques that can be applied to a system model, this text covers the basic foundations of thermal-fluid system analysis and design. It addresses hydraulic systems, energy systems, system simulation, and system optimization. In addition, it incorporates both SI and English units, and builds current state-of-the-art computer modeling skills throughout the book. Topics covered include: Review of thermal engineering concepts Engineering economics principles Application of conservation and balance laws Review of fluid flow fundamentals Minor losses Series and parallel pipe networks Economic pipe diameter Pump performance and selection Cavitation Series and parallel pump systems The affinity laws for pumps Heat exchangers, LMTD, and e-NTU methods Regenerative HX, condensers, evaporators, and boilers Double-pipe heat exchangers Shell and tube heat exchangers Plate and frame heat exchangers Cross-flow heat exchangers Thermal energy system simulation Fitting component performance data Optimization using Lagrange multipliers Optimization using software Thermal Energy Systems: Design and Analysis covers the concepts and the skills needed to plan, model, create, test, and optimize thermal systems; and to use computer simulation software through its use of Engineering Equation Solver (EES).

This workbook helps students build confidence before attempting end-of-chapter problems. It provides short problems and exercises that focus on developing a particular skill, often requiring students to draw or interpret sketches and graphs, or reason with math relationships.

"In Hospital Operations, two leading Operations Management experts and five practicing clinicians demonstrate how to apply new OM advances and metrics to substantially improve any hospital's performance. Replete with examples, Hospital Operations shows how to generate principles-driven breakthrough ideas to systematically improve emergency departments, operating rooms, nursing unites, and diagnostic units." -- Back cover

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!

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