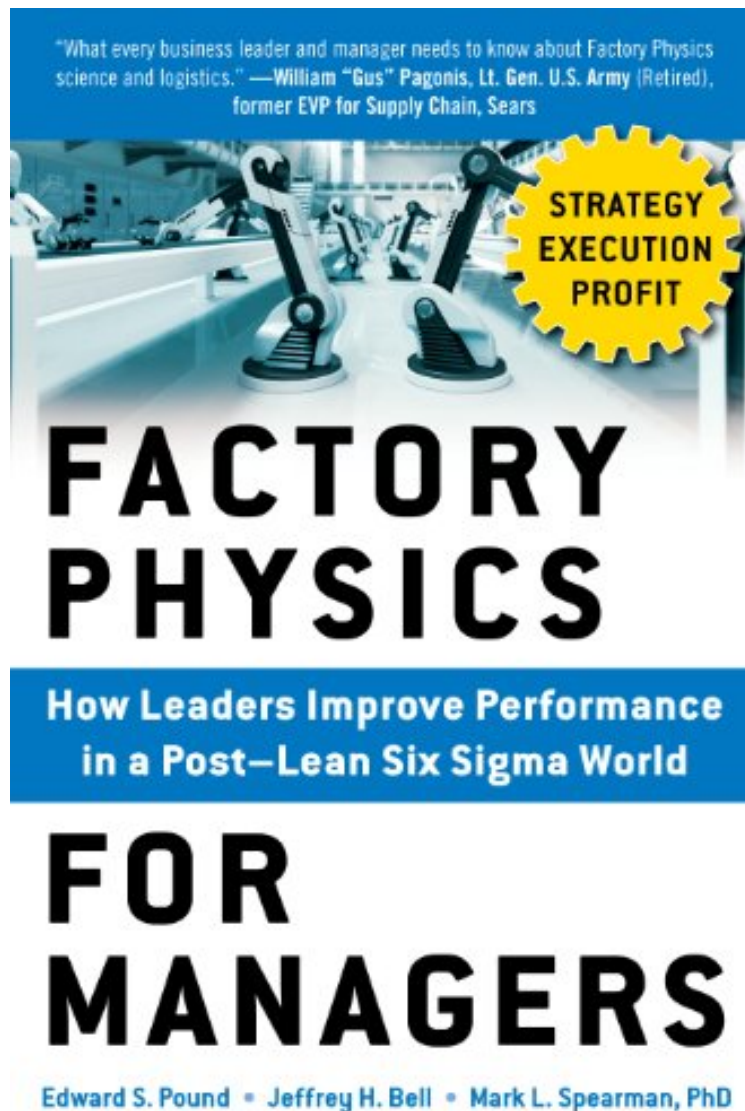


[Library ebook] Factory Physics for Managers: How Leaders Improve Performance in a Post-Lean Six Sigma World

Factory Physics for Managers: How Leaders Improve Performance in a Post-Lean Six Sigma World

Edward S. Pound, Jeffrey H. Bell, Mark L. Spearman
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0 of 0 people found the following review helpful. A Practical Scientific Framework for Supply Chain ManagementBy

Scot Johnson This is a great book! This book extends the insights developed in the classic manufacturing text "Factory Physics" by Hopp and Spearman. Hopp and Spearman's original goal was to develop a scientific framework for the management of manufacturing and supply chains. This book extends the technical insights of the original text with guidance on how to implement this management framework in actual businesses. It starts with an overview of the scientific principles of how supply chains work, by explaining the three key equations that govern supply chain behavior: Little's Law, the VUT equation, and the Variance of Replenishment-Time Demand. From there it shows how to model supply chain behavior based on these principles using Demand-Stock-Production (DSP) models and absolute performance benchmarking models. If you work in a supply chain in any capacity, you need to understand these principles to operate effectively. Buy and read this book!

3 of 3 people found the following review helpful. The primary book is filled with useful detail and equations - but that doesn't always work ...By ann tafoyal've always been a fan of Factory Physics and have used the concepts extensively. The primary book is filled with useful detail and equations - but that doesn't always work when faced with trying to convince others about the benefits. This book brings the same concepts up a level so that you can talk to your manager and your manager's peers about the benefits of applying factory physics. The book does a great job combining practical concepts in Lean, Operations Management, Finance, Business and Leadership into a very readable overview.

2 of 2 people found the following review helpful. Great book - the new must read for manufacturers

By CH There are now 2 books every manufacturer must read - "The Goal" and Factory Physics. A great book - material covered is essential for anyone working as a manager in a manufacturing facility. I am a student of lean and think it is a wonderful philosophy - however, it can do nothing for you if you don't understand the fundamentals outlined in this book. So many companies try to implement lean and fail - not because lean doesn't work - but because lean requires a healthy foundation to build on. Factory Physics will help you build that foundation - then you can benefit from lean or six sigma or both. Short of that, you are wasting your time with improvement philosophies.

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 operations' 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

About the Author Edward S. POUND is Chief Operations Officer at Factory Physics Inc. Jeffrey H. Bell is a managing partner of Arc Precision, a supplier of precision-engineered components to the medical device industry, and he serves on the advisory board of Factory Physics Inc. Mark L. Spearman, Ph.D., is the founder, president, and CEO of Factory

Physics Inc. and coauthor of Factory Physics.