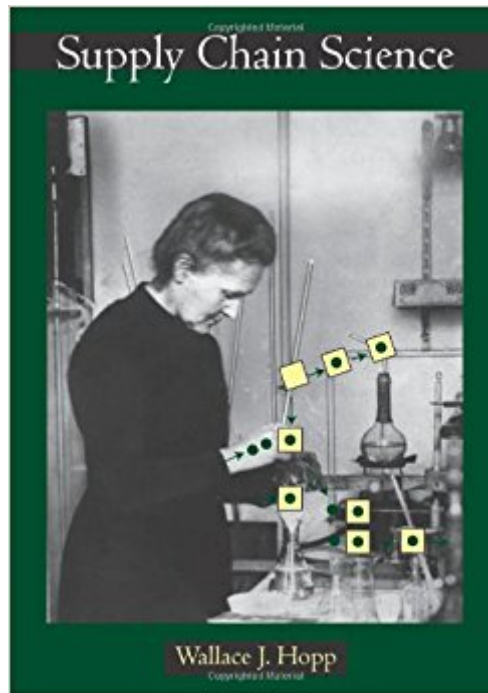




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Supply Chain Science



Synopsis

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 Hopp's solid, practical introduction to manufacturing and supply chain dynamics, managers learn how to use the scientific approach "to understand "why" systems behave the way they do" as 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 nonmathematical way, contains illustrations and analogies to everyday life, links theory to practice, and reinforces the learning process with end-of-chapter "Questions for Thought." Titles of related interest also from Waveland Press: Hopp-Spearman, *Factory Physics*, Third Edition (ISBN 9781577667391) and Nahmias-Olsen, *Production and Operations Analysis*, Seventh Edition (ISBN 9781478623069). Table of Contents 0. STRATEGIC FOUNDATIONS Starting with Strategy / Setting Our Goals / Defining Our Terms / Structuring Our Study I: STATION SCIENCE 1. Capacity, 2. Variability, 3. Batching II: LINE SCIENCE 4. Flows, 5. Buffering, 6. Push/Pull III: NETWORK SCIENCE 7. Inventory, 8. Risk, 9. Coordination Appendix A: Summary of Notation Appendix B: Supply Chain Science Principles

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Customer Reviews

"Glad to see this picked up. Certainly a steal [at the new price] and makes a nice theoretical summary of many concepts throughout our supply chain program." --Geoff Willis, University of Central Oklahoma

I would have given Supply Chain Science 10 stars if I could! In the Factory Physics trilogy (Factory Physics, Factory Physics for Managers, and Supply Chain Science), this is the book to start with for those who are new to the topic. It's an excellent primer, introducing most of the most important and applicable ideas in a readily accessible form. My only criticism is the unfortunate choice of title; it is about much, much more than supply chains (although the last part of the book focuses on that important subject). I'm afraid because of it much of the readership who would find the wisdom contained between its covers useful will pass over it thinking the contents does not apply to them. Too bad! Every once in a while you stumble upon books containing ideas that are so profound they change your world view. In almost 30 years of work I have three: The Flaw of Averages by Sam Savage, How to Measure Anything by Doug Hubbard, and the Factory Physics trilogy, including Supply Chain Science. It's that good.

Hopp gives a good introduction to manufacturing and supply chain dynamics. I found the content to be a well organized review of supply chain flow, inventory and buffer management operations. In some respects, I think of the content as "Supply Chain Mathematics", since much of the book is about measuring and optimizing the performance of a supply chain. As such this book discusses the management of inventory and flow rather than concepts such as selection of suppliers, contractual relationships, etc. It is worth noting that the book includes a discussion & definition of value chain analysis within a factory, then expands to consider multiple factories and distribution. Hopp includes useful examples from manufacturers as well as service providers, including quite a few areas which would not be typical users of lean techniques. This is an introductory textbook, with well ordered chapters and discussion problems/questions for each chapter. A helpful outline summarizing the principles is found on the inside front cover of the book.

Studying supply chain but want to look like you're a scientist? Just bring this book with you. Flip to pages with formulas and you'll look like you're about to start an experiment!

This is a "Kindle book" that you can't play on Kindles or the Kindle app on PC. It was literally a complete waste of money.

Book arrived without any marks. The book itself is a dry read, but good information.

This book is the best written in the world, now I could know why the variability affects the process in supply and which way I should follow.

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