

The Supply Chain Professional

Concepts and Analytics

SECOND EDITION

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The goal of *The Supply Chain Professional: Concepts and Analytics, 2nd edition* is to provide an intensive overview of supply chain management, including demand management, and supply and distribution, along with analytic models used in managing the supply chain. Whether you are a manager in a functional area who needs to quickly come up to speed on supply chain concepts or a student working to grasp the tools needed to run operations and supply chains, the book presents the important terms and concepts to quickly build your knowledge

Supply chain management is the process of planning, implementing, and controlling the efficient, cost-effective flow and storage of raw materials, in-process inventory, finished goods, and related information, from point of origin to point of consumption, for the purpose of meeting customer requirements.

The book highlights supply chain system design and planning, and introduces the field of supply chain management through an understanding of the managerial issues and challenges faced in developing and implementing a supply chain strategy for a firm. The objective is to familiarize you with the decisions involved in designing and controlling material flow in the supply chain system, along with presenting a sample of tools available to use in making those decisions. The book introduces and applies current concepts (such as supplier partnerships, capacity planning, demand planning, inventory planning, manufacturing planning, etc.) that have significant implications for a firm's competitiveness. Case studies and exercises are included to reinforce the concepts.

Completing a course using this book will provide you:

1. An understanding of the elements of a supply chain system (including the in- and outbound flows of material and information) and the strategic decisions that go into the design, implementation, and modification of such a system;
2. The ability to apply relevant analytical tools, especially spreadsheet modeling, that support strategic supply chain design and implementation;
3. The skills needed to analyze ill-structured supply chain problems and apply sound reasoning in determining appropriate courses of action.

This second edition *The Supply Chain Professional* has strengthened coverage by way of including:

- a more thorough discussion of supply chain strategy,
- better linkage between customer needs and product design,
- broader coverage of process improvement and process mapping,
- a focus on supply chain design and global logistics,
- a new overview of material requirements planning,
- expanded coverage of risk and sustainability,
- an added discussion of capacity including waiting lines.

The book incorporates a number of figures to help you understand the concepts and includes study questions at the end of each chapter to test your knowledge. Templates have been developed for many of the examples and end-of-chapter problems to aid your understanding of the analytic supply chain models. Other online activities provide interesting additions to help you study.

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