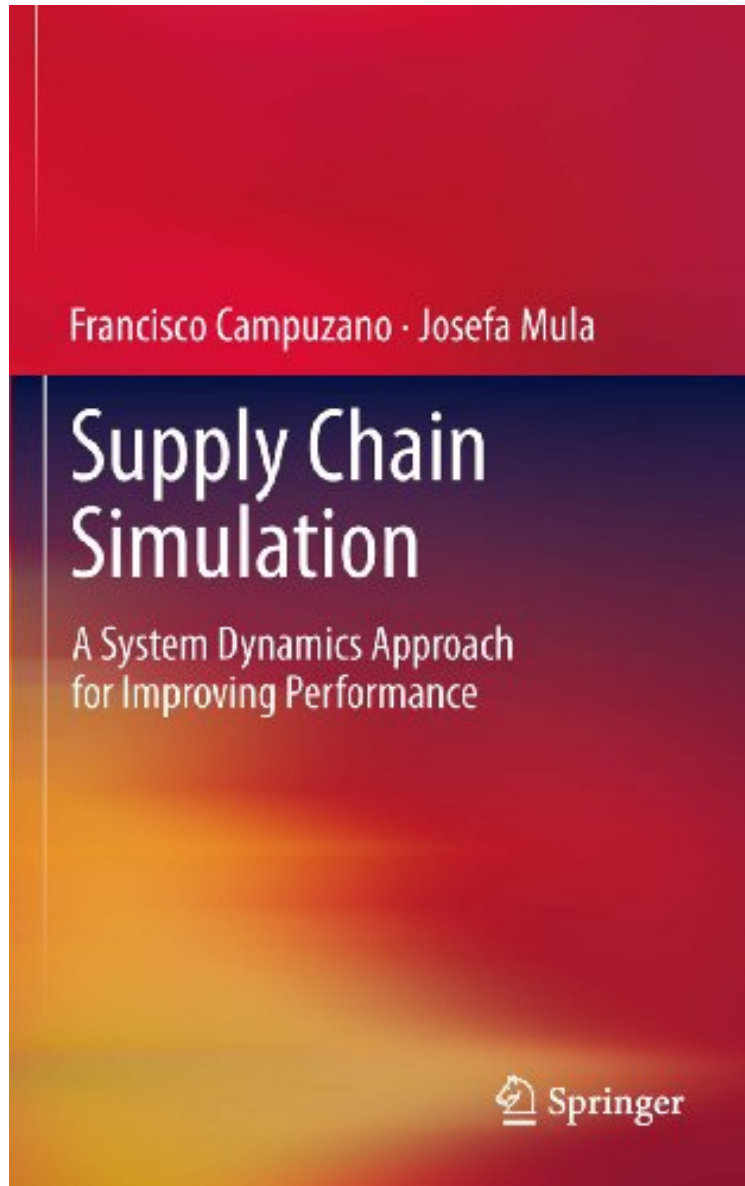


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Supply Chain Simulation: A System Dynamics Approach for Improving Performance

Francisco Campuzano, Josefa Mula
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Supply Chain Simulation allows readers to practice modeling and simulating a multi-level supply chain. The chapters are a combination of the practical and the theoretical, covering: knowledge of simulation methods and techniques, the conceptual framework of a typical supply chain, the main concepts of system dynamics, and a set of practice problems with their corresponding solutions. The problem set includes illustrations and graphs relating to the simulation results of the Vensimreg; program, the main code of which is also provided. The examples used are a valuable simulation tool that can be modified and extended according to user requirements. The objective of Supply Chain Simulation is to meet the demands of supply chain simulation or similar courses taught at the postgraduate level. The "what if" analysis recreates different simulation scenarios to improve the decision-making process in terms of supply chain performance, making the book useful not only for postgraduate students, but also for industrial practitioners.

From the reviews: "The authors, who are business management professors at different Spanish universities, succinctly present, explain, and summarize research on various concepts relating to our evolutionary understanding of supply chain theory and management in recent decades. . . . This book is a gem in terms of being compact, comprehensive, and yet concise . . . I would characterize this book in its current form as a diamond . . ." (Greg H. Parlier, *Interfaces*, Vol. 43 (1), January–February, 2013)

From the Back Cover Supply Chain Simulation allows readers to practice modeling and simulating a multi-level supply chain. The chapters are a combination of the practical and the theoretical, covering: knowledge of simulation methods and techniques, the conceptual framework of a typical supply chain, the main concepts of system dynamics, and a set of practice problems with their corresponding solutions. The problem set includes illustrations and graphs relating to the simulation results of the Vensimreg; program, the main code of which is also provided. The examples used are a valuable simulation tool that can be modified and extended according to user requirements. The objective of Supply Chain Simulation is to meet the demands of supply chain simulation or similar courses taught at the postgraduate level. The "what if" analysis recreates different simulation scenarios to improve the decision-making process in terms of supply chain performance, making the book useful not only for postgraduate students, but also for industrial practitioners.

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Dr. Josefa Mula is Senior Lecturer at Universitat Politècnica de València (UPV) in Spain where she teaches supply chain simulation, production management and operations research. She is Senior Researcher at the Research Centre of Production Management and Engineering (CIGIP) of UPV. Her research interests are oriented to production management, supply chain management and uncertainty modelling in production management. She has written (in collaboration) more than forty articles in international journals. She is member of the editorial board of the *Journal of Industrial Engineering and Management*. She has participated and continues to participate in various European projects (VCHAIN, ECOSELL, REMPLANET) and has led several national projects (EVOLUTION, REVOLUTION).