



# Warehousing in the Global Supply Chain: Advanced Models, Tools and Applications for Storage Systems

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With increased globalization and offshore sourcing, global supply chain management is becoming an important issue for many businesses as it involves a company's worldwide interests and suppliers rather than simply a local or national orientation. The storage systems significantly affect the level of quality of products, the customer's service level, and the global logistic cost. The mission of warehousing systems design, control and optimization is to effectively ship products in the right place, at the right time, and in the right quantity (i.e. in any configuration) without any damages or alterations, and minimizing costs.

*Warehousing in the Global Supply Chain* presents and discusses a set of models, tools and real applications, including a few case studies rarely presented with a sufficient detail by other literature, to illustrate the main challenges in warehousing activities. This includes all warehouse operations (from receiving to shipping), problems and issues (e.g. storage allocation, assignment, layout, vehicle routing) for industrial and service systems as parts of global supply chains.

Advanced and effective solving methods are also illustrated and the discussed case studies help the reader to quickly apply the proposed models and techniques/algorithms. *Warehousing in the Global Supply Chain* is useful to managers and practitioners of industry and service sectors for the determination and modeling of the critical issues concerning warehousing systems planning and design. It is a valuable source of information for engineering students, doctoral and post-doctoral students, and researchers of academic institutions who are searching for advanced modeling approaches and solving techniques to complex logistic decision making problems.

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### Editorial Review

#### Review

From the reviews:

“Warehousing in the Global Supply Chain takes us through an almost chronological path in the development of warehouse operations and their positioning within the global supply chain. ... the book provides an adequate introduction to enable the reader to further research the concepts discussed. ... a valuable source of information for engineering, doctoral, and postdoctoral students, and researchers in academic institutions. I agree strongly with this and recommend the book as a reference to this audience.” (Bernard Stanley, *Interfaces*, Vol. 43 (6), November-December, 2013)

#### From the Back Cover

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#### About the Author

Riccardo Manzini is Associate Professor of Logistics for the Department of Industrial and Mechanical Engineering at University of Bologna, Italy. Professor of Reliability & Maintenance at University of Modena and Reggio Emilia, Italy. His academic research deals with planning, design, optimization and control of production systems (both industrial and service systems) with particular reference to logistics systems, storage systems, supply chain and distribution networks, reliability modelling and maintenance system management. Author of many scientific and technical papers and contributions on logistics, maintenance and reliability engineering, production systems design and optimization. He is the first author of the book: Manzini R., Regattieri A., Pham H., Ferrari E. (2010) *Maintenance for Industrial Systems*. London: Springer London Ltd., 978-1-84882-574-1. He is the originator and chairman of the International Workshop on Food

Supply Chain ([www.foodsupplychain.diem.unibo.it](http://www.foodsupplychain.diem.unibo.it)). He has carried out several research projects in co-operation with - and funded by - private and public companies on logistics, industrial plants and maintenance problems. He is a referee of several international ISI journals for Springer, Elsevier, Taylor & Francis, etc.

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