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| Nota di contenuto | Cover -- Half Title -- Title Page -- Copyright Page -- Table of Contents -- Introduction -- The future is now -- Part 1 Lean and supply chain management principles -- Chapter 1 Introduction to Lean and supply chain principles -- Chapter 2 Just-in-time -- Just-in-time manufacturing -- Just-in-time procurement -- Just-in-time logistics -- Chapter 3 Value stream mapping -- Chapter 4 Kaizen -- Principles -- Philosophy -- Structure -- Application -- Chapter 5 The 5S -- What is 5S? -- Definitions -- Effective 5S components -- The 5S philosophy -- Chapter 6 The 5 Whys -- Product flow -- Financial flow -- Information flow -- Value flow -- Risk flow -- Part 2 Digitalization of supply chain procurement -- Chapter 1 The reinvention of procurement -- A world and context evolving -- Chapter 2 The transformation of procurement into a global force -- Tactical versus strategic! -- Chapter 3 Procurement and digitalization -- Chapter 4 Saving procurement from itself -- Procurement savings strategies -- Procurement savings definitions -- Procurement savings types -- |

Procurement savings reports -- Procurement savings levers -- Chapter 5 Procurement and sustainability -- The importance of sustainable procurement -- Chapter 6 Procurement solutions in the digital age -- Part 3 Supply chain logistics -- Chapter 1 What is logistics? -- Chapter 2 Logistics in the 21st century -- Chapter 3 Physical and digital supply chains are merging -- Chapter 4 21st-century digital logistical solutions -- Part 4 Inventory management in the age of digital automation -- Chapter 1 How AI solves the riddle of inventory management -- Chapter 2 How big data is changing inventory management -- Chapter 3 Misconceptions on managing inventory in a digital-driven world -- Myth 1 - we can't have stock outs -- Myth 2 - if we buy more, we get a much better price -- Myth 3 - inventory is an asset.
Myth 4 - inventory variety appeals to a variety of customers -- Myth 1 - there is no need of software for inventory management -- Myth 2 - inventory management software solutions are not reliable -- Myth 3 - there needs to be a constant check on inventory -- Myth 4 - only inventory specialists can track orders and place demand -- Myth 5 - my warehouse is too messed up for a software -- Chapter 4 Best practices in inventory management in the digital age -- 1. Categorize your inventory using ABC analysis -- 2. Optimize your pick and pack process -- 3. Establish your inventory KPIs -- 4. Use batch tracking -- 5. Use an accurate reorder point formula -- 6. Carry safety stock inventory -- 7. Optimize your inventory turnover rates -- 8. Streamline your inventory counting -- 9. Reduce your inventory -- 10. Use a cloud-based inventory management system -- Part 5 Supply chain warehousing in the 21st century -- Chapter 1 The 20th-century warehouse is passé -- Chapter 2 The warehouse in the 21st century: How to keep up with distribution center automation and digitalization -- Chapter 3 The five steps to a 21st-century warehouse -- Business needs -- Building blocks -- Simulation -- Integration -- Implementation and training -- Part 6 Supply chain and the new demand planning -- Chapter 1 Ten critical differences between the centuries in demand planning -- Chapter 2 Demand planning needs to incorporate more than … -- Chapter 3 21st-century leadership versus 20th-century leadership -- Part 7 Supply chain in the age of customer service -- Chapter 1 Contemplating on the history of customer service -- Chapter 2 Customer service re-invented for the 21st century -- Chapter 3 How will customer service be reinvented for the digital age? -- Chapter 4 Improving customer service in the age of e-commerce -- Chapter 5 Customer-focus innovation.
Chapter 6 Customer-first culture and alignment -- Chapter 7 Navigating the internal politics of change -- Step 1: Map the political landscape -- Step 2: Identify the key influencers within each stakeholder group -- Step 3: Assess influencers' receptiveness to change -- Step 4: Mobilize influential sponsors and promoters -- Step 5: Engage influential positive and negative skeptics -- Part 8 Supply chain and predictive analysis -- Chapter 1 Looking into the future: Predictive analytics and supply chain -- Chapter 2 Predictive analytics and manufacturing -- How predictive analytics is improving manufacturing -- How to use predictive analytics in manufacturing -- The four benefits of predictive analytics in manufacturing -- Chapter 3 Predictive analytics and the transportation management system -- Chapter 4 Transportation in the age of artificial intelligence -- Chapter 5 The final-mile delivery -- Chapter 6 Predictive analytics and mainstream business tools -- Chapter 7 Using predictive analytics to drive sales and customer service -- Part 9 The human factors in supply chain digitalization -- Chapter 1 Are human jobs at risk with supply

chain automation? -- But is supply chain automation really the cure-all it purports to be? -- Chapter 2 Human factor engineering in supply chain automation -- Chapter 3 But, will we still need people? -- Chapter 4 What impact will automation have upon warehouse workers? -- Chapter 5 The role of human factors on the future of manufacturing -- Glossary -- Index.

Sommario/riassunto

The goal of this book is to gain a clear picture of the current status and future challenges with regard to the digitalization of the supply chain - from the perspective of the suppliers, the manufacturers, and the customers. They were the target groups of the book. Digitization has touched upon all aspects of businesses, including supply chains. Technologies such as RFID, GPS, and sensors have enabled organizations to transform their existing hybrid (combination of paper-based and IT-supported processes) supply chain structures into more f lexible, open, agile, and collaborative digital models. Unlike hybrid supply chain models, which have resulted in rigid organizational structures, unobtainable data, and disjointed relationships with partners, digital supply chains enable business process automation, organizational flexibility, and digital management of corporate assets. In order to reap maximum benefits from digital supply chain models, it is important that companies internalize it as an integral part of the overall business model and organizational structure. Localized disconnected projects and silo-based operations pose a serious threat to competitiveness in an increasingly digital world. The technologies discussed in this text - artificial intelligence, 3D printing, Internet of things, etc. -are beginning to come together to help digitize, automate, integrate, and improve the global supply chains. It's certainly an exciting and challenging time for both new supply chain professionals and long-time supply chain professionals.

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| Nota di bibliografia | Includes bibliographical references at the end of each chapters. |
| Nota di contenuto | Front Cover; Contents; Preface; Acknowledgments; Author; Chapter 1: Massive Field Data Collection: Issues and Challenges; Chapter 2: Condition Monitoring: Available Techniques; Chapter 3: Challenges of Condition Monitoring Using AI Techniques; Chapter 4: Input and Output Data; Chapter 5: Two-Stage Response Surface Approaches to Modeling Drug Interaction; Chapter 6: Nearest Neighbor-Based Techniques; Chapter 7: Cluster-Based Techniques; Chapter 8: Statistical Techniques; Chapter 9: Information Theory-Based Techniques; Chapter 10: Uncertainty Management; Back Cover |
| Sommario/riassunto | Artificial Intelligence Tools: Decision Support Systems in Condition Monitoring and Diagnosis discusses various white- and black-box approaches to fault diagnosis in condition monitoring (CM). This indispensable resource:Addresses nearest-neighbor-based, clustering-based, statistical, and information theory-based techniquesConsiders the merits of each technique as well as the issues associated with real-life applicationCovers classification methods, from neural networks to Bayesian and support vector machinesProposes fuzzy logic to explain the uncertainties associated with diagnostic processes |