

Digital Supply Chain Powered By Sap Leonardo

This book covers topics such as digitalization of production, operations, logistics and supply chains leading to new requirements for human capabilities and collaboration. The content is relevant for research as well as industry as digitalization is shaping all value chain processes anew. A special focus is directed towards an interdisciplinary perspective, including management science, economics, sociology, work science, computer science and psychology. In order to foster the dialogue between business practice and academics as well as university teaching and research, this contributed book is addressing academic as well as professional business views on digitalization.

The Digital Supply Chain Challenge is a distillation of the authors' 50+ years of combined supply chain experience. Their insights and observations - captured in short articles and best-practice case studies - are brought together in one place for supply chain executives to consult at different times during their SCD voyage.

It is almost impossible to conceive of the concept and practical application of supply chain management (SCM) without linking it to the enabling power of today's information technologies. Building upon the foundations of the first edition, Introduction to Supply Chain Management Technologies, Second Edition details the software toolsets and suites driving integration in the areas of customer management, manufacturing, procurement, warehousing, and logistics. By investigating the breakthroughs brought about by the emergence of new Internet-based technologies in information, channel, customer, production, sourcing, and logistics management, the author provides new insights into the continuously emerging field of SCM. New in the Second Edition: New model of SCM Extended discussion of the concepts of lean, adaptive, and demand-driven supply chain technologies Customer experience management and social networking Fundamentals of computing and their enabling power Basics of today's ERP/supply chain business solutions Integrative software tools that allow for new levels of collaboration, flexibility, and performance The new edition expands on emerging technologies that have provided all forms of enterprises with the capability to continuously automate cost, redundancy, and variation out of the process; enhance information creation and visibility; and expand the peer-to-peer connectivity that allows people to network their tasks, ideas, and aspirations to produce a form of collective open-ended knowing, collaborating, and experiencing. The information presented builds an understanding of how today's technology-driven SCM provides new avenues to execute superlative, customer-winning value through the digital, real-time synchronization of productive competencies, products, services, and logistics delivery capabilities with the priorities of an increasingly global business environment.

Maritime Supply Chains breaks the maritime chain into components, consistently relating them to the overall integrated supply chain. The book

not only analyzes and provides solutions to frequently encountered problems and key operational issues, it also applies cutting-edge scientific techniques on the maritime supply chain. Sections consider shipping, ports and terminals, hinterland and the issues that intersect different parts of the chain. Readers will find discussions of the various actors at play and how they relate to the overall function of the supply chain. Finally, the book offers solutions to the most pressing problems, thus providing a unique, well-balanced account. Provides a comprehensive and integrative account of the maritime supply chain, from shipping, to port, to hinterland Cuts through the maritime supply chain to offer a transversal picture on how the chain functions Applies rigorous analytical techniques to give solutions to the most frequent and pressing challenges facing maritime supply chains Considers advances, such as blockchain, that are set to transform maritime supply chains

A Roadmap for Research and Innovation

Mastering the Digital Marketplace

Breaking Through

Good practices in the field of digital agriculture - Stocktaking report

Reinventing the Energy Value Chain

Next Generation Supply Chains

A Practitioner's Guide to Successful Digitalization

Many manufacturing and distribution companies are moving from the traditional 'forecast push MRP' to demand-driven supply chain management (SCM). Demand-driven SCM is an 'end-to-end' supply chain planning and replenishment process that enables companies to achieve their planned service levels from up to half the average level of inventory and requiring significantly less throughput capacity - irrespective of the level of demand volatility or lead-time length. Demand-Driven Supply Chain Management is the go-to source for industry supply chain/operations executives and students. It describes the 'what, how and why' of the demand-driven SCM process. The key themes in the book are: what is demand-driven? why is demand-driven so effective? how to operate a demand-driven supply chain? and how to adopt the demand-driven process in your company? Readers can quickly grasp the essential concepts from one of numerous self-contained sections that present the book's key concepts from different perspectives. Online resources available include full-colour figures.

This book provides a practical guide to digital supply chain modelling, demonstrating an agile approach to how such models can be applied to any manufacturing company to build competitive advantage, facilitate new business models and drive towards Industry 4.0. The agile approach of the book provides an attractive alternative to the conventional country-by-country deployment of S/4 HANA and other relevant technologies. This book contains the expertise Gotz G. Wehberg has amassed over 20 years as a senior partner in a leading consulting company, working across industries and with globally recognized clients, advising on digitization. In it, he explains the scientific roots of digital supply chain management such as holism, cybernetics, self-organization and evolutionary theory to inform a deep understanding that can drive a supremely

innovative strategy for Industry 4.0. Beyond strategy, Wehberg introduces the practical tools and technologies used in supply chain modelling, for example, sensors, big data, artificial intelligence and the Internet of Things, as well as a reference framework that categorizes the technologies, together with the latest concepts and tools, such as DDMRP, predictive S&OP, pattern recognition, autonomous logistics and Lean. This framework supports decision making for developing supply chains in an end-to-end and cross-functional fashion, providing clear guidance for executives and managers on how to design supply chains for the future.

This book shows digital economy has become one of the most sought out solutions to sustainable development and economic growth of nations. This book discusses the implications of both artificial intelligence and computational intelligence in the digital economy providing a holistic view on AI education, economics, finance, sustainability, ethics, governance, cybersecurity, blockchain, and knowledge management. Unlike other books, this book brings together two important areas, intelligence systems and big data in the digital economy, with special attention given to the opportunities, challenges, for education, business growth, and economic progression of nations. The chapters hereby focus on how societies can take advantage and manage data, as well as the limitations they face due to the complexity of resources in the form of digital data and the intelligence which will support economists, financial managers, engineers, ICT specialists, digital managers, data managers, policymakers, regulators, researchers, academics, students, economic development strategies, and the efforts made by the UN towards achieving their sustainability goals.

Concrete instructions for digital transformation in business Supply Chain Management is without question deeply affected by the disruptive forces of a modern organization, positively as well as negatively. Between Advanced Analytics and AI, agile role models and autonomous warehouses a senior executive is often in danger of losing track in the digital jungle. In these exciting times, with their many turning points, h&z aims to share insights around digital supply chains, their application in business and the so vital transformation to successfully prepare organizations for this challenge. This book provides insights into best practices current supply chain and how CSOs apply technologies and advancements. It also makes daring forecasts about how processes and leadership must be designed so that the digital transformation does not fail in its infancy, but leads to a truly agile organization.

Transforming Supply Chains

Logistics 4.0

The Digital Supply Chain

The Evolving Imperative of Operating in Real Time

Developing Sustainable Supply Chains to Drive Value

Digital Supply Chains

Integrating Best in Class Processes

The dynamics of the world's pervasive digital technologies is transforming organisations and enabling enterprises to create sustainable competitive advantage. This presents huge economic

opportunities for Africa. This book responds to the need for African enterprises and organisations—particularly those in the service sector—to fully exploit the inherent potential in digital platforms by putting in place processes to respond effectively to changing consumer demands. Digital service delivery is conceptualised as a key driver of effective management and service delivery across the value chain of businesses. The authors offer insights into the opportunities, drivers, structures, and models of digital service delivery specific to the African context, using case studies and country-based themes that highlight how the adoption of digital platforms and practices can transform service delivery for value-creation. The book examines the scope and applications of digital businesses, emphasising the emergence, value-creation, and strategic implications for Africa’s private and public enterprises. Students, entrepreneurs, IT innovators, academics, and policymakers will gain a greater understanding of how digitalisation is shaping consumer expectations, industry practices, and service delivery in Africa.

In a company ecosystem the supply chain manager is tasked with duties and objectives primarily aimed at controlling and reducing costs, while optimizing the material flows. Yet, in many organizations, common perception limits supply chain management to product logistics, materials handling and warehouse management. The supply chain manager must learn how to communicate the results of his work to show the importance and impact supply chain management operations have on a company. In this book, Enrico Camerinelli provides the supply chain manager and the chief financial officer with the means to link the value of the supply chain to an organization's bottom line. He explores the problem with current supply chain metrics, shows how to close the gap between financial decisions and supply chain performance, suggests a model to provide a lingua franca for supply chain, financial and other managers throughout the company and points to ways in which new technology can help measure the value of the supply chain. Using case studies and interviews with supply chain and financial experts, *Measuring the Value of the Supply Chain* will help financial and supply chain managers achieve strategic advantage through effective supply chain management.

Strong leadership is necessary to drive the transformational change required to build and apply digital capabilities across organizations. Digital transformation in the supply chain is a leadership problem first and foremost. This book draws out some of the key digital business strategies supply chain leaders must become familiar with as they take on the responsibilities of leading transformations within their firms.

The central rationale of the book is to establish a clear business case for the performance shifts and opportunities of the Digital Supply Chain. The benefits of a digital supply chain for firms can be summarized as uniquely reducing the amount of trade-off between costs and customer satisfaction. The challenges, complexity, and management involved in transforming to a digital supply chain have slowed many firms in their implementation. The key to unlocking this value and advantage is a new, robust, and digitally aware supply chain leadership mindset. It will provide readers with a practical Digital Supply Chain Leadership Road Map that will accelerate actions in technology, analytics, talent and business models. The road map to digital transformation will step the reader through these critical dimensions and illustrate how they can support their own organizational transformation by developing greater levels of maturity. This book will be most valued by supply chain leaders in medium to large scale organizations, as well as consultants and academics interested in digital business and supply chain transformation. The book will also be valuable for students studying digital transformation, supply chain, and operations.

Creates a managerial compass for entering into the LIVING (Live, Intelligent, Velocity, Interactive, Networked, and Good) era of supply chain management and defines the imperative for creating Velocity and Visibility as the focal point for exploiting new digital, mobile, and cloud-based technologies Written by well-known researchers in the field, this book addresses the changes that have occurred and are still unfolding at various organizations that are involved in building real-time supply chains. The authors draw on their experiences with multiple companies, along with references to the natural evolution of ecosystems throughout to help identify the “new rules of supply chain management.” The LIVING principles associated with the rapid digitization and technology changes occurring in the global economy are discussed, along with the push to become more sustainable and responsive to customer needs. “ Handfield and Linton reveal the “secret ingredient” to leveraging the power of a well managed supply chain....will revolutionize the way companies approach supply chain management.” Frank Crespo, Vice President, Global Supply Network Division (CPO/Logistics/IoT Analytics), Caterpillar Inc. “ The LIVING supply chain is a wake up call to any enterprise that depends on suppliers and contractors. Be fast, be nimble and make supply chain transparency the nucleus of your operations or become endangered.” Paul Massih, Vice President, BP PSCM “ ...a fascinating journey through the future of supply chain management ... a must read for every supplychain professional.” Yossi Sheffi, Professor, MIT Center

for Transportation and Logistics “ ... a great “living” reading on how to bring supply chains to a powerful living state. The idea of Live-Interactive-Velocity-Intelligent-Networked-Good is the foundation of how supply chains can be agile, adaptive and aligned. ...of value to every supply chain executive and practitioner.” Hau Lee, Professor, Stanford University “ Successful businesses are those that support the success of their customers. This book captures the essence of our volatile, uncertain world and the opportunities that exist for the commercially astute, organizationally integrated business. More important, it offers insight to the recipe for 21st century operations and the management of complex supply ecosystems.” Tim Cummins, CEO, International Association of Commercial and Contract Management “ A LIVING supply chain requires a living company. The authors make a great case for how Flex is creating a living company to thrive in the living supply chain.” Tom Choi, Harold E. Fear on Eminent Scholar Chair of Purchasing Management, Arizona State University, Executive Director, CAPS Research “ To survive we need to have an adaptive supply chain and capability to both optimize and adapt simultaneously. This book begins to describe the ability to shift from functional silos to E2E Frictionless flow with the maturity to make E2E tradeoff decisions as a key enabler for success.” Wayne Rothman, Vice President, Enterprise Supply Chain Planning, Johnson & Johnson “A fantastic read and excellent stories from Dr. Handfield and Tom.” Joanne E. Wright, Vice President, IBM Supply Chain

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Key Facilitator to Industry 4.0 and New Business Models, Leveraging S/4 HANA and Beyond

E-Logistics

Global Supply Chain and Operations Management

Introduction to Supply Chain Management Technologies, Second Edition

Supply Chain Transformation

Reshaping Talent and Organizations

The Digital Transformation of Logistics

E-logistics serves as the nerve system for the whole supply chain and enables smooth information flow within and between organizations. This contributed book focuses on the strategic role of e-logistics in today's dynamic global environment. In E-Logistics international experts from both academia and industry examine how competitiveness and productivity in transport, logistics and supply chain management can be improved using e-logistics systems and technologies. A variety of successful e-logistics business approaches are discussed

covering a range of commercial sectors and transport modes. Separate chapters consider e-logistics developments for air freight; rail freight; road freight; sea transport and port systems. Subsequent chapters address in depth support systems for B2C and B2B e-commerce and e-fulfilment, warehouse management, RFID, electronic marketplaces, global supply network visibility, and service chain automation. Industry case studies are used to support the discussion. The book also investigates emerging technologies in e-logistics and considers what the future might hold in this rapidly changing and developing field.

This open access book explores supply chains strategies to help companies face challenges such as societal emergency, digitalization, climate changes and scarcity of resources. The book identifies industrial scenarios for the next decade based on the analysis of trends at social, economic, environmental technological and political level, and examines how they may impact on supply chain processes and how to design next generation supply chains to answer these challenges. By mapping enabling technologies for supply chain innovation, the book proposes a roadmap for the full implementation of the supply chain strategies based on the integration of production and logistics processes. Case studies from process industry, discrete manufacturing, distribution and logistics, as well as ICT providers are provided, and policy recommendations are put forward to support companies in this transformative process.

Information is one of the key enablers of modern business. The ever expanding availability of digital information, however, brings with it the challenge of handling this information appropriately. While related challenges now appear in our daily lives, this is even more the case along supply chains, where a multitude of actors is involved. This doctoral thesis addresses the topic by linking theoretical rigor with practical relevance. By assessing the current state of research in supply chain management represented in literature reviews, a range of under-represented areas of research as well as potential future research directions in the field of supply chain management are identified. Focusing on one selected exemplary under-represented area of research, the thesis takes the digital business transformation perspective, portraying the value and role of digital information in a business function context. As research on the intersection of Big Data Analytics and supply chain management is still scarce, the conceptual work offers first insights into an emerging topic, both on the internal operations level and on the supply chain level. This is beneficial from a scientific as well as a managerial perspective, as a thorough understanding of the constituents of a digital ecosystem is a key ingredient for the competitiveness and overall productivity of the company and ultimately of the supply chain as a whole.

China, Trust and Digital Supply Chains presents a critical reflection on blockchain technologies in the context of their adoption in China and the world that China is engaged in and shaping. Approaching the issues of blockchain technology adoption and development on China's own terms is critical if policy makers and others are to make effective sense of one of the key dynamics shaping the next few decades of the global landscape. The work challenges the "trust" trope that dominates much discussion of blockchain technology's application. It argues, contrary to the predominant trust trope, that blockchain is not about trust at all. It shows that China's re-imagining of the 21st century global order is premised on driving intensified cross-border economic interactions without the presupposition of trust, and blockchain technology makes that possible. It also explores the paradox of technological decentralisation being taken up with vigour by a centralist polity, the role of blockchain technology as a critical condition of existence for the successful globalisation of China's digital currency initiative, and the need to devise governance institutions that are multilateral in nature, to reflect the multi-polar nature of decentralised information systems with domestic and cross-border permutations. This book is of significant interest to readers of political economy, public policy, blockchain technology and Chinese studies.

Digital Supply Chains and the Human Factor

Demand-Driven Supply Chain Management

Management Issues, Insights, Concepts, and Tools Implementation

Advances in Artificial Systems for Power Engineering II

Linking Financial Performance and Supply Chain Decisions

Dynamics of a Zero Trust World

Realign Your Business to Better Serve Customers in a Disruptive World

STREAMLINE OPERATIONS AND DELIVER MORE VALUE THAN EVER

WITH A STRONG SUPPLY CHAIN STRATEGY "Dittmann's thoughtful

approach and real-world examples make this book is an excellent resource for anyone in the supply chain field, whether a beginner or an executive seeking a better framework for the existing supply chain strategy." -- Dave Clark, Vice President, Global Customer Fulfillment, Amazon

"A practical approach for developing and implementing breakthrough customer-driven integrated supply chain strategies designed to generate best in class operating and financial performance for any enterprise." -- Paul H. Trueax III, Vice President, North America Customer Services and Logistics, Colgate Palmolive

"An effective supply chain strategy can have a huge impact on all of the stakeholders of the organization. This book lays out nine clear and concise steps that are very helpful as your company starts this critical process." -- Bill Hutchinson, Vice President, Global Supply Chain and Fulfillment, Dell

"Dittmann's book lays out a customer-driven, case-derived nine-step method for creating and implementing a transformational supply chain strategy. It is a must-read for any supply chain professional developing or refreshing a supply chain strategy." -- Reuben Slone, Senior Vice President, Supply Chain, Walgreens

The Digital Supply Chain is a thorough investigation of the underpinning technologies, systems, platforms and models that enable the design, management, and control of digitally connected supply chains. The book examines the origin, emergence and building blocks of the Digital Supply Chain, showing how and where the virtual and physical supply chain worlds interact. It reviews the enabling technologies that underpin digitally controlled supply chains and examines how the discipline of supply chain management is affected by enhanced digital connectivity, discussing purchasing and procurement, supply chain traceability, performance management, and supply chain cyber security. The book provides a rich set of cases on current digital practices and challenges across a range of industrial and business sectors including the retail, textiles and clothing, the automotive industry, food, shipping and international logistics, and SMEs. It concludes with research frontiers, discussing network science for supply chain analysis, challenges in Blockchain applications and in digital supply chain surveillance, as well as the need to re-conceptualize supply chain strategies for digitally transformed supply

chains. Covers both theoretical and practical points-of-view Contains material that readers from different backgrounds and disciplines will find informative Examines digital practices and challenges in-depth across a wide range of sectors Provides up-to-date, critical insights on the design, management and control of digitally connected supply chains Written by experts with strong backgrounds in the field

The managed flow of goods and information from raw material to final sale also known as a "supply chain" affects everything--from the U.S. gross domestic product to where you can buy your jeans. The nature of a company's supply chain has a significant effect on its success or failure--as in the success of Dell Computer's make-to-order system and the failure of General Motor's vertical integration during the 1998 United Auto Workers strike. Supply Chain Integration looks at this crucial component of business at a time when product design, manufacture, and delivery are changing radically and globally. This book explores the benefits of continuously improving the relationship between the firm, its suppliers, and its customers to ensure the highest added value. This book identifies the state-of-the-art developments that contribute to the success of vertical tiers of suppliers and relates these developments to the capabilities that small and medium-sized manufacturers must have to be viable participants in this system. Strategies for attaining these capabilities through manufacturing extension centers and other technical assistance providers at the national, state, and local level are suggested. This book identifies action steps for small and medium-sized manufacturers--the "seed corn" of business start-up and development--to improve supply chain management. The book examines supply chain models from consultant firms, universities, manufacturers, and associations. Topics include the roles of suppliers and other supply chain participants, the rise of outsourcing, the importance of information management, the natural tension between buyer and seller, sources of assistance to small and medium-sized firms, and a host of other issues. Supply Chain Integration will be of interest to industry policymakers, economists, researchers, business leaders, and forward-thinking executives.

Achieve best practices in supply chain management Much is being written about global supply chain and sourcing options emerging in today's marketplace. Transforming supply chain management to achieve operations excellence is a mandate for many companies globally. Supply Chain Transformation walks you through this potentially difficult process and gets you started on the journey. Much more than just a how-to book, it's a why-to book that is as compelling for any business person as it is for supply chain management professionals. This book provides an invaluable road map to companies

looking to transform their supply chains and organizations to achieve best practice results, beginning with guidance on how to make the case for change. Change is inevitable; growth is optional. Includes real world cases and illustrations Offers a step-by-step road map to transforming your supply chain Explains how to obtain "senior management" commitment to transformation Covers sourcing, production, and logistics process integration points with product development, marketing, sales, and finance processes as well as emerging technologies (RFID, Cloud computing, telematics, ERP, GPS/LBS & others) One of the biggest hurdles to supply chain transformation is overcoming a culture that is resistant to change. Supply Chain Transformation helps you understand the cultural resistance and evaluate where change is needed most, and then develop the game plan for overcoming resistance to achieve best practice results.

Maritime Supply Chains

Demystifying Impacts of the Fourth Industrial Revolution

A review and a Big Data Analytics approach

Dynamic Quality Models and Games in Digital Supply Chains

Digital Supply Networks: Transform Your Supply Chain and Gain Competitive Advantage with Disruptive Technology and Reimagined Processes

The Digital Supply Chain Challenge

The digital transformation is in full swing and fundamentally changes how we live, work, and communicate with each other. From retail to finance, many industries see an inflow of new technologies, disruption through innovative platform business models, and employees struggling to cope with the significant shifts occurring. This Fourth Industrial Revolution is predicted to also transform Logistics and Supply Chain Management, with delivery systems becoming automated, smart networks created everywhere, and data being collected and analyzed universally. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides a holistic overview of this vital subject clouded by buzz, hype, and misinformation. The book is divided into three themed-sections: Technologies such as self-driving cars or virtual reality are not only electrifying science fiction lovers anymore, but are also increasingly presented as cure-all remedies to supply chain challenges. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, the authors peel back the layers of excitement that have grown around new technologies such as the Internet of Things (IoT), 3D printing, Robotic Process Automation (RPA), Blockchain or Cloud computing, and show use cases that give a glimpse about the fascinating future we can expect. Platforms that allow businesses to centrally acquire and manage their logistics services disrupt an industry that has been relationship-based for centuries. The authors discuss smart contracts, which are one of the most exciting applications of Blockchain, Software as a Service (SaaS) offerings for freight procurement, where numerous data sources can be integrated and decision-making processes automated, and marine terminal operating systems as an integral node for shipments. In The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution, insights are shared into the cold chain industry where companies respond to increasing quality demands, and how European governments are innovatively responding to challenges of cross-border eCommerce. People are a vital element of the digital transformation and

must be on board to drive change. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution explains how executives can create sustainable impact and how competencies can be managed in the digital age - especially for sales executives who require urgent upskilling to remain relevant. Best practices are shared for organizational culture change, drawing on studies among senior leaders from the US, Singapore, Thailand, and Australia, and for managing strategic alliances with logistics service providers to offset risks and create cross-functional, cross-company transparency. The Digital Transformation of Logistics: Demystifying Impacts of the Fourth Industrial Revolution provides realistic insights, a ready-to-use knowledge base, and a working vocabulary about current activities and emerging trends of the Logistics industry. Intended readers are supply chain professionals working for manufacturing, trading, and freight forwarding companies as well as students and all interested parties.

Based on successful, proven business research in E-business field, this guide to mastering the "digital economy" identifies three key strategic approaches and offers advice on how to build a business around these principles.

"This book provides a guide to the best practices in digital enablement, change management, and process optimization. It also builds on the available limited literature in the field of digital supply chain optimization and business transformation and complement it with practical and proven tactics from the industry"--

Industrial revolutions have impacted both, manufacturing and service. From the steam engine to digital automated production, the industrial revolutions have conduced significant changes in operations and supply chain management (SCM) processes. Swift changes in manufacturing and service systems have led to phenomenal improvements in productivity. The fast-paced environment brings new challenges and opportunities for the companies that are associated with the adaptation to the new concepts such as Internet of Things (IoT) and Cyber Physical Systems, artificial intelligence (AI), robotics, cyber security, data analytics, block chain and cloud technology. These emerging technologies facilitated and expedited the birth of Logistics 4.0. Industrial Revolution 4.0 initiatives in SCM has attracted stakeholders' attentions due to it is ability to empower using a set of technologies together that helps to execute more efficient production and distribution systems. This initiative has been called Logistics 4.0 of the fourth Industrial Revolution in SCM due to its high potential.

Connecting entities, machines, physical items and enterprise resources to each other by using sensors, devices and the internet along the supply chains are the main attributes of Logistics 4.0. IoT enables customers to make more suitable and valuable decisions due to the data-driven structure of the Industry 4.0 paradigm. Besides that, the system's ability of gathering and analyzing information about the environment at any given time and adapting itself to the rapid changes add significant value to the SCM processes. In this peer-reviewed book, experts from all over the world, in the field present a conceptual framework for Logistics 4.0 and provide examples for usage of Industry 4.0 tools in SCM. This book is a work that will be beneficial for both practitioners and students and academicians, as it covers the theoretical framework, on the one hand, and includes examples of practice and real world.

The Cloud-Based Demand-Driven Supply Chain

Digital Transformation of Supply Chain Management

Digital Service Delivery in Africa

A Decision-Oriented Introduction to the Creation of Value

Surviving Supply Chain Integration

Enterprise Supply Chain Management

Bricks Matter

ENTERPRISE SUPPLYCHAIN MANAGEMENT Integrating Best-in-Class Processes Is supply chain management all about forecasting? Or is it just a warehousing and transportation function? Demystifying the mystery

supply chain management is for many, Enterprise Supply Chain Management: Integrating Best-in-Class Processes offers a comprehensive look at the role of this field within your own organization. Written by industry leader Vivek Sehgal, this book invites you to evaluate your current supply chain practices and leverage its best in class concepts to your own challenges. Drawing from the author's abundant research and analysis, this resourceful book shows how to manage a supply chain across an enterprise, encompassing technological, financial, procurement, and operational issues. You will find in this book a thoroughly functional view of supply chain, so you can readily understand the meaning of processes and where they fit into your company's big picture. This essential book covers: A primer on supply chain and finance Elements of a supply chain model The scope of the supply chain Demand and supply planning Supply chain network design Transportation and warehouse management Supply chain collaboration Reverse logistics management Supply chain technology Whether you are a business manager, an IT manager, or a supply chain student, if you are looking for more of a comprehensive understanding of what each of the supply chain processes in your organization brings to the table and how each functions as part of the whole, Enterprise Supply Chain Management: Integrating Best-in-Class Processes is for you. Immensely functional on all aspects of supply chain management, this guide clearly explains how each process works and the relationships among them, allowing you to start implementing best-in-class approaches in your organization.

Sustainability is changing and changing rapidly. It is becoming more widespread as companies and customers uncover its power, attractiveness, and sustainability, as well as receiving more attention in the press. Support for sustainability lies within new tools, frameworks, and approaches. The authors capture these and other developments in this second volume of Developing Sustainable Supply Chains. In the first volume, the authors assess major management opportunities; this second volume focuses on implementation; when combined the result is a complete, action-oriented treatment of sustainability. Written by two of the leading academic researchers in this area, this series introduces the reader, whether a student, manager, or experienced sustainability advocate, to the various tools, frameworks, and approaches that work. Get proven guidance to build a market-driven supply chain management system Supply chain management processes have gradually shifted from a supply-driven focus to a demand-driven one in order to better synchronize demand and supply signals. Bricks Matter shows you how you can identify market risks and opportunities and translate these into winning tactics. Business cases highlight how business leaders are winning through market-driven approaches. Helps you understand how to apply the

emerging world of predictive analytics for the better management of value networks Includes business cases illustrating the market-driven approach Reveals how businesses can identify market risks and translate these into supply-side tactics As companies transition from demand-driven to market-driven approach, the focus in organizations shifts from one of vertical excellence to building strong market-to-market horizontal processes. Improve revenue by increasing market share, improve profit margins, and maintain high levels of customer service with the indispensable guidance found in Bricks Matter.

Reinvent your supply chain from the outside in - leverage customer insight, heuristics and digital tools to meet rising expectations and adapt in a volatile world. Customers have become increasingly demanding, and the operating environment has become more turbulent and complex. Mature companies wishing to survive and thrive in the coming decades must transform themselves to become flexible and market responsive. They need to reconsider their traditional supply chains and find ways to increase the clockspeed of their operation and their decision making without creating more complexity for their staff and partners. But where to start this transformation journey? Most of the world's largest corporations have logistics networks and supply chains that have evolved over time, many based around systems that drive a 'one-size-fits-all' philosophy, which does not fit anymore. And most have not kept up with the changing cadence of their markets. This book describes the path to a different paradigm; where a set of tailored supply chains are used for in-built flexibility and adaption as the world changes, and where internal capabilities and digital capabilities are consciously aligned with the customers and strategies they serve. Transforming Supply Chains builds on John Gattorna's seminal Dynamic Alignment framework; and he and his long-term collaborator Deborah Ellis review the analytics and decision-making tools needed to be effective in the digital age. Case Studies of organisations that excel using the 'outside-in' paradigm that they describe are scattered throughout the book; as are a series of prompts to help 'kick start your thinking' about your own transformation path. Transforming Supply Chains is your guide to designing supply chains that fit, and adapt, and bring competitive advantage - whatever your business and whoever your customers.

**Trends and Use Cases in Digital Innovation and Transformation
Platforms and Practices**

The Digitalization of the 21st Century Supply Chain

Shaping the Digital Enterprise

China, Trust and Digital Supply Chains

The LIVING Supply Chain

Supply Chain Roadmaps for Digital Oilfields Through Hydrogen Fuel Cells

Deliver unprecedented customer value and seize your competitive edge with a transformative digital supply network Digital tech has disrupted life and business as we know it, and supply chain management is no exception. But how exactly does digital transformation affect your business? What are the breakthrough technologies and their capabilities you need to know about? How will digital transformation impact skills requirements and work in general? Do you need to completely revamp your understanding of supply chain management? And most importantly: How do you get started? Digital Supply Networks provides clear answers to these and many other questions. Written by an experienced team comprised of Deloitte consultants and leading problem-driven scholars from a premier research university, this expert guide leads you through the process of improving operations building supply networks, increasing revenue, reimagining business models, and providing added value to customers, stakeholders, and society. You'll learn everything you need to know about: Stages of development, roles, capabilities, and the benefits of DSN Big data analytics including its attributes, security, and authority Machine learning, Artificial Intelligence, Blockchain, robotics, and the Internet of Things Synchronized planning, intelligent supply, and digital product development Vision, attributes, technology, and benefits of smart manufacturing, dynamic logistics, and fulfillment A playbook to guide the digital transformation journey Drawing from real world-experience and problem-driven academic research, the authors provide an in-depth account of the transformation to digitally connected supply networks. They discuss the limitations of traditional supply chains and the underlying capabilities and potential of digitally-enabled supply flows. The chapters burst with expert insights and real-life use cases grounded in tomorrow's industry needs. Success in today's hyper-competitive, fast-paced business landscape, characterized by the risk of black swan events, such as the 2020 COVID-19 global pandemic, requires the reimagination and the digitalization of complex demand-supply systems, more collaborative and connected processes, and smarter, more dynamic data-driven decision making?which can only be achieved through a fully integrated Digital Supply Network.

This textbook presents global supply chain and operations management from a comprehensive perspective, combining value creation networks and interacting processes. It focuses on the operational roles in the networks and presents the quantitative and organizational methods needed to plan and control the material, information and financial flows in the supply chain. Each chapter of the book starts with an introductory case study. Numerous examples from various industries and services help to illustrate the key concepts. The book explains how to design operations and supply networks and how to incorporate suppliers and customers. As matching supply and demand is a core aspect of tactical planning, the book focuses on it before turning to the allocation of resources for fulfilling customer demands. Providing readers with a working knowledge of global supply chain and operations management, this textbook can be used in core, special and advanced classes. Therefore, the book targets a broad range of students and professionals involved with supply chain and operations management. Special focus is directed at bridging theory and practice.

This book bridges the fields of Supply Chain Management, Digital Transformation, and Dynamic Quality models in order to illustrate how digital transformation affects the work of researchers and managers in Supply Chain Quality problems. It aims to address the gap in scholarship regarding new technologies, updating the established literature to reimagine theoretical models, dynamic games, knowledge management, supply chain coordination solutions, interfaces in circular economies, and other functional spaces for a digital era. Written for researchers, managers, and practitioners, this book offers an accessible approach to the topics through clear, management-oriented chapters, reserving mathematical background for the Appendices. It discusses an array of modern challenges in digitization, including smart device installation, Cloud data accessibility, applications of AI systems, Supply Chain monitoring via Blockchains, using sensors in operations, and digital tool integration within traditional IS frameworks.

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 flexible, 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.

Technology Optimization and Change Management for Successful Digital Supply Chains

Measuring the Value of the Supply Chain

Supply Chain Transformation: Building and Executing an Integrated Supply Chain Strategy

The Big Data-Driven Digital Economy: Artificial and Computational Intelligence Practical Roadmap to Best Practice Results

Impact tokenization and innovative financial models for responsible agrifood supply chains

Managing Your Digital Supply Chains for Competitive Advantage

This report provides a comprehensive summary and analysis on how impact tokenization and innovative financial models can promote responsible agri-food supply chains. Recent advances in the development

of impact tokenization techniques, distributed ledger technology, and innovative financial models have created new opportunities to improve transparency, verification, and incentive alignment across multiple stakeholders in agri-food supply chains. This report outlines those opportunities and describes how practitioners and policymakers can implement enhanced methods for efficiently defining and verifying impact in agri-food supply chains. The report concludes with an analysis of the most promising financial models for promoting responsible agri-food supply chains.

This book sheds light on cross-industry and industry-specific trends in today's digital economy.

Prepared by a group of international researchers, experts and practitioners under the auspices of SAP's Digital Thought Leadership & Enablement team within SAP's Business Transformation Services (BTS) unit, the book furthermore presents relevant use cases in digital transformation and innovation. The book argues that breakthrough technologies have matured and hit scale together, enabling five defining trends: hyper-connectivity, supercomputing, cloud computing, a smarter world, and cyber security. It presents in detail how companies are now reimagining their products and services, business models and processes, showcasing how every business today is a digital business. Digitalization, defined as the process of moving to a digital business, is no longer a choice but an imperative for all businesses across all industries and regions. Taking a step toward becoming a digital enterprise is demanding and challenging. The dimensions of customer centricity, leadership and strategy, business models, including offerings (products and services), processes, structure and governance, people and skills, culture, and technology foundation can serve as orientation for digitalization. The articles in this book touch on all dimensions of this digital innovation and transformation framework and offer possible answers to some of the pressing questions that arise when practitioners seek to digitalize their business.

Companies across different industries are launching technology-enabled (digital) business transformation programs to improve their strategic, tactical, and operational supply chain processes. The greatest challenges that they are facing include the lack of preparation and knowledge of the digital transformation life cycle and poorly addressing or neglecting the "people-related" aspects of them. Therefore, improvement initiatives have been short-lived or incomplete, and expected business benefits have not been achieved or materialized. *Technology Optimization and Change Management for Successful Digital Supply Chains* is a pivotal reference source that provides vital research on the application of digital business transformation programs to improve strategic, tactical, and operational supply chain processes. While highlighting topics such as maturity models, predictive analysis, and communication planning, this publication explores the limited literature in the field of digital supply chain optimization and business transformation, and complements it with practical and proven tactics from the industry. This book is ideally designed for program managers, engineers, students, and practitioners seeking current research on the field's latest best practices on digital supply chain enablement.

This book unravels the complexities of supply chain process transformation by explaining step-by-step, in simple terms, the requirements for success from the basics to the implementation of this complicated task. The book provides insights into how to lead the transformation project and how to manage the change internally and externally. The authors' hands-on experience in the field via applied research is clearly illustrated in the case studies, which provide the reader with practical examples of the challenges and benefits of implementing a digital supply chain transformation project. This is a must-have book for all supply chain and operations professionals.

Practical Strategies for Competitiveness in the New Economy

Digital Transformation Of The Supply Chain: A Practical Guide For Executives

Strategies for Small Manufacturers

Dealing with digital information richness in supply chain management

How Digital Transformation Impacts Supply Chain Quality Management

Digital Supply Chain Leadership

Digital excellence in agriculture in Europe and Central Asia

Built on the foundation laid by David Jacoby's 2012 book

Optimal Supply Chain Management in Oil, Gas, and Power Generation, Reinventing the Energy Value Chain expands those concepts to address energy transformation. As the push for diversification of energy sources continues, this book takes a pragmatic view. It provides a toolbox of techniques to successfully manage the range of complex tradeoffs that are inherent in capital projects and operations & maintenance across energy technologies and apply best practice techniques to emerging energy industries - from the small to the large project, and from solar to nuclear and everything in between. The book is broken into two parts. Part one provides a conceptual framework for value chain management in the energy sector. It lays out the objectives, key business processes, and performance metrics that provide useful guideposts. It offers first principles that should guide value chain initiatives in the energy industry and explains how to organize supply chain management activities. Part two includes initial chapters on capital project and operations management and explains overall tools and techniques that are relevant to energy supply chains broadly speaking.

Digital Supply Networks: Transform Your Supply Chain and Gain Competitive Advantage with Disruptive Technology and Reimagined Processes McGraw-Hill Education

The present report is the outcome of the joint call on good practices on Digital Excellence in Agriculture, organized by the International Telecommunication Union (ITU) Office for Europe and Office for CIS and the Food and Agriculture Organization (FAO) of the United Nations Office for Europe and Central Asia. The document presents a summary version of the 171 eligible submissions of good practices and innovative solutions advancing the digital transformation of agriculture in Europe and Central Asia. This call complements the joint FAO-ITU review on the Status of Digital Agriculture in 18 countries of Europe and Central Asia (ITU-FAO, 2020)¹ and provides evidence on how Information and Communication Technologies (ICTs) play an emerging role in the agriculture landscapes of the regions, acting as an engine for agricultural development. However, the adoption of digital technologies in agriculture differs from country to country, and from region to region. The review in the 18 countries highlighted that smallholder farmers have yet to experience the widespread benefits of

this digital transformation, and they are lagging behind when it comes to the adoption of digital agriculture solutions and innovations due to lack of trust in the potential of ICTs, limited digital skills, connectivity issues and restricted availability of ICT-based solutions to utilize and scale up. Realizing the full potential of digital agriculture transformation requires identifying, sharing and implementing best practices and proven solutions across countries, involving all actors in participatory processes.

It's time to get your head in the cloud! In today's business environment, more and more people are requesting cloud-based solutions to help solve their business challenges. So how can you not only anticipate your clients' needs but also keep ahead of the curve to ensure their goals stay on track? With the help of this accessible book, you'll get a clear sense of cloud computing and understand how to communicate the benefits, drawbacks, and options to your clients so they can make the best choices for their unique needs. Plus, case studies give you the opportunity to relate real-life examples of how the latest technologies are giving organizations worldwide the opportunity to thrive as supply chain solutions in the cloud. Demonstrates how improvements in forecasting, collaboration, and inventory optimization can lead to cost savings Explores why cloud computing is becoming increasingly important Takes a close look at the types of cloud computing Makes sense of demand-driven forecasting using Amazon's cloud Whether you work in management, business, or IT, this is the dog-eared reference you'll want to keep close by as you continue making sense of the cloud.

The Role of Supply Chains in Building Market-Driven
Differentiation

Transformational Performance Improvement