Lean Supply Chain And Logistics Management

This book presents the latest developments in optimization and optimal control models; exact, approximate and hybrid methods; and their applications in lean and green supply chains. It examines supply chain network design and modeling, closed loop supply chains, and lean, green, resilient and agile or responsive networks, and also discusses corporate social responsibility and occupational health and safety. It particularly focuses on supply chain management under uncertainty – employing stochastic or nonlinear modeling, simulation based studies and optimization – multi-criteria decision-making and applications of fuzzy set theory, and covers various aspects of supply chain management such as risk management, supplier selection or the design of automated warehouses. Lastly, using experimental applications and practical case studies, it shows the impact of lean and green applications on vehicle/fleet management and operations management.

THE PRACTICAL, EASY INTRODUCTION TO MODERN SUPPLY CHAIN/LOGISTICS MANAGEMENT FOR EVERY PROFESSIONAL AND STUDENT COVERS CORE CONCEPTS, PLANNING, OPERATIONS, INTEGRATION, COLLABORATION, NETWORK DESIGN, AND MORE SHOWS HOW TO MEASURE, CONTROL, AND IMPROVE ANY SUPPLY CHAIN INCLUDES PRACTICAL ADVICE FOR JUMPSTARTING YOUR OWN SUPPLY CHAIN CAREER This easy guide introduces the modern field of supply chain and logistics management, explains why it is central to business success, shows how its pieces fit together, and presents best practices you can use wherever you work. Myerson explains key concepts, tools, and applications in clear, simple language, with intuitive examples that make sense to any student or professional. He covers the entire field: from planning through operations, integration and collaboration through measurement, control, and improvement. You'll find practical insights on hot-button issues ranging from sustainability to the lean-agile supply chain. Myerson concludes by helping you anticipate key emerging trends—so you can advance more quickly in your own career. Trillions of dollars are spent every year on supply chains and logistics. Supply chain management is one of the fastest growing areas of business, and salaries are rising alongside demand. Now, there's an easy, practical introduction to the entire field: a source of reliable knowledge and best practices for students and professionals alike. Paul A. Myerson teaches you all you'll need to start or move forward in your own supply chain career. Writing in plain English, he covers all the planning and management tasks needed to transform resources into finished products and services, and deliver them efficiently to customers. Using practical examples, Myerson reviews the integration, collaboration, and technology issues that are essential to success in today's complex supply chains. You'll learn how to measure your supply chain's performance, make it more agile and sustainable, and focus on what matters most: adding customer value. MASTERS NUTS-AND-BOLTS OPERATIONAL BEST PRACTICES Improve procurement, transportation, warehousing, ordering, reverse logistics, and more BUILD A BETTER GLOBAL SUPPLY CHAIN Manage new risks as you improve sustainability STRENGTHEN KEY LINKAGES WITH YOUR PARTNERS AND CUSTOMERS Get supply chains right by getting collaboration right PREVIEW THE FUTURE OF SUPPLY CHAINS—AND YOUR SUPPLY CHAIN CAREER Discover "where the puck is headed"—so you can get there first Delivering excellent service to all customers is the key imperative for many sustainable businesses. So why do so many supply chains struggle to fulfill customer requirements at competitive costs? The answer is simple: traditional supply chain planning, which was tailored to a predominantly stable and predictable business environment, cannot handle the new challenges in the world of variability, uncertainty, complexity, and ambiguity—the VUCA world. Companies can either accept the drawbacks that often result in high inventories, poor asset utilization, and unsatisfactory customer service or, they can change their view of the fundamental approach to supply chain management. LEAN Supply Chain Planning: The New Supply Chain Management Paradigm for Process Industries to Master Today's VUCA World introduces a new paradigm and a new approach to managing variability, uncertainty, and complexity in today's planning processes and systems. Introducing a cutting-edge supply chain management concept that addresses current problems in the process industry's supply chains, the book presents powerful methods developed by leading research institutes, process industry champions, and supply chain experts. It explains how readers can change their approach to the fundamental planning paradigms in a manner that will help their organizations achieve higher levels of responsiveness, improved levels of customer service, and substantial increases in cost-efficiencies. This holistic practitioner's guide describes how to establish the right accountabilities for performance management and also provides a set of meaningful metrics to help measure your progress. Supplying detailed guidelines for transforming your supply chain, it includes first-hand reports of leading organizations that have already adopted some of the facets of this paradigm and used the relevant instruments to achieve unprecedented improvements to customer service, supply chain agility, and overall equipment effectiveness. The purpose of this book is to describe how lean and supply chain management can be combined to achieve world-class business performance. To accomplish this purpose, the book contains both basic material on lean and supply chain management, as well as content from current journal research findings, strategies, issues, concepts, philosophies, procedures, methodologies, and practices in managing a lean supply chain. Presented in a topical fashion, the chapters deal with a wide-range of subjects that support, nurture, and advance principles, concepts, and methodologies of lean supply chain management. Contents: Introduction to Lean and Supply Chain Management: LeanSupply ChainsThe Nexus of Lean and Supply Chain ManagementTopics in Lean Supply Chain Management: Topics in Lean Supply Chain LeadershipStrategic Customer Value Focus in Lean Supply Chain ManagementTopics in Aligning Lean Supply Chain Strategy, Tactics, and Operational PlansEthics, Trust, and Collaboration Topics in Lean Supply ChainsTopics in Globalization and Cultural Impacts on Lean Supply ChainsTopics in Lean Supply Chain Information SystemsTopics in Lean Supply Chain New Product DevelopmentTopics is Lean Supply Chain E-commerceTopics in Lean Supply Chain...
Outsourcing
Topics in Sustainable Lean Supply Chains
Topics in Building Agile and Flexible Lean Supply Chains

Readership: Undergraduates, Graduates, academics and consultants who are interested to know more about lean supply chain management. Keywords: Lean;Lean Management;Supply Chain;Supply Chain Management

Review: Key Features: This is a topical book, that focuses in-depth on the Lean topics that are covered. This book covers many of the newer Lean topics that are the focus point for Lean firms today. The chapters of this book has been updated with current literature and even include the most recent advances in Lean-related technology (some of which have yet to be implemented but are in the planning stages).

Everyone can impact the supply chain. Supply Chain Management For Dummies helps you connect the dots between things like purchasing, logistics, and operations to see how the big picture is affected by seemingly isolated inefficiencies. Your business is a system, made of many moving parts that must synchronize to most efficiently meet the needs of your customers—and your shareholders. Interruptions in one area ripple throughout the entire operation, disrupting the careful coordination that makes businesses successful; that's where supply chain management (SCM) comes in. SCM means different things to different people, and many different models exist to meet the needs of different industries. This book focuses on the broadly-applicable Supply Chain Operations Reference (SCOR) Model: Plan, Source, Make, Deliver, Return, and Enable, to describe the basic techniques and key concepts that keep businesses running smoothly. Whether you're in sales, HR, or product development, the decisions you make every day can impact the supply chain. This book shows you how to factor broader impact into your decision making process based on your place in the system. Improve processes by determining your metrics. Choose the right software and implement appropriate automation. Evaluate and mitigate risks at all steps in the supply chain. Help your business function as a system and to more effectively meet customer needs. We tend to think of the supply chain as suppliers, logistics, and warehousing—but it's so much more than that. Every single person in your organization, from the mailroom to the C-suite, can work to enhance or hinder the flow.

Supply Chain Management For Dummies shows you what you need to know to make sure your impact leads to positive outcomes.

Supply chain management (SCM) is "the systemic, strategic coordination of the traditional business functions and the tactics across these business functions within a particular company and across businesses within the supply chain, for the purposes of improving the long term performance of the individual companies and the supply chain as a whole."[2] It has also been defined as the "design, planning, execution, control, and monitoring of supply chain activities with the objective of creating net value, building a competitive infrastructure, leveraging worldwide logistics, synchronizing supply with demand and measuring performance globally."

This book analyses the development of strategic supply chain modelling and its role in optimising decision-making in business, in relation to advances in technology and increased demand due to globalisation. The authors examine existing supply chain models in order to create a conceptual framework for a new diagnostic tool, offering a useful, realistic and meaningful contribution to the field, both theoretically and practically. Using the real-life context of a major international automobile manufacturer, this study satisfies the demand for industry guidance in the complex world of strategic supply chain modeling in the growing logistics business sector. Readers of Strategic Supply Chain Management will find this work instructive and informative, and it will be of particular interest to students, researchers and policy-makers in the supply chain management industry.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. A Proven 10-Step Solution Process to Identify and Solve Supply Chain Problems Using the Latest Lean Methods Fully revised to cover recent dramatic developments in supply chain improvement methodologies, this strategic guide brings together the Six Sigma and Lean manufacturing tools and techniques required to eliminate supply chain issues and increase profitability. This updated edition offers new coverage of enterprise kaizen events, big data analytics, customer loyalty metrics, security, sustainability, and design for excellence. The structured 10-Step Solution Process presented in the book ensures that clear goals are established and tactical objectives are consistently met through the deployment of aligned Lean Six Sigma projects. Written by a Master Black Belt and Lean Six Sigma consultant, this practical resource also provides an inventory model and Excel templates for download at www.mhprofessional.com/LSSSCM2. Lean Six Sigma for Supply Chain Management, Second Edition, covers: Lean Six Sigma applications for service, supply chain, and manufacturing systems Deploying Lean Six Sigma projects using Lean tools and models Demand management impact on Lean Six Sigma projects Lead time impact on Lean Six Sigma projects Root-cause analysis using Six Sigma Tools (with operations research methods) Applications to Lean Six Sigma supply chains and third-party logisticsBig data analytics, security, and sustainability applications Voice of the Customer, Kano, and loyalty metrics Supply chain design for excellence methods Lean Six Sigma maturity model If you read one book about managing your supply chain, read this book. There has been a tremendous amount of energy focused on improving efficiencies within a business organization. The results have been, at best, mixed. Streamlined: Building and Managing the Lean Supply Chain changes everything. This insightful and comprehensive book covers the activities of all businesses involved in the flow of products, services, finances, and information from the initial suppliers to the ultimate users. Presented using 14 simple, yet powerful, principles for building and managing the lean supply chain, Streamlined develops the thought process that managers need to lead their enterprises into the twenty-first century. It presents specific steps and instructions to help the manager deal with the complexities of running the business from a logistics and operations perspective. The book stresses systems thinking. It uniquely integrates two management philosophies: the theory of constraints and lean thinking, illustrating how they complement and reinforce each other to create the smooth flow of goods and services through the supply chain. Srinivasan provides candid discussions of managers’ tasks and responsibilities and how they may be best accomplished by applying these conceptual tools. The concepts in this book can be applied to any organization, regardless of the industry one works in. • Veteran managers will gain a new perspective as they view the supply chain from a holistic approach. • The 14 principles in the book are presented with common-sense explanations. • Less experienced managers will benefit from the case studies that provide living examples of how each of the 14 principles has been applied successfully in practice. • The summaries and conclusions throughout the book effectively reinforce the content in each chapter.

Business practices are constantly evolving in order to meet growing customer demands. Evaluating the role of logistics and supply chain management skills or applications is necessary for the success of any organization or business. As market competition becomes more aggressive, it is crucial to evaluate ways in which a business can maintain a strategic edge over competitors. Supply Chain and Logistics
Management: Concepts, Methodologies, Tools, and Applications is a vital reference source that centers on the effective management of risk factors and the implementation of the latest supply management strategies. It also explores the field of digital supply chain optimization and business transformation. Highlighting a range of topics such as inventory management, competitive advantage, and transport management, this multi-volume book is ideally designed for business managers, supply chain managers, business professionals, academicians, researchers, and upper-level students in the field of supply chain management, operations management, logistics, and operations research. Applying lean to the supply chain is a hot topic. While lean operations can produce significant benefits to an organization, the greatest benefits will not be realized unless lean is extended beyond the organization to involve both suppliers and customers. Lean Supply Chain: Collected Practices and Cases provides a variety of case studies to help you understand the benefits of lean practices.

Are your warehouses full while production is stopped by shortages? Do your customers complain that your lead times are too long and deliveries too late? Lean Logistics: The Nuts and Bolts of Delivering Materials and Goods by Michel Baudin helps you determine whether you have the right supply to meet your customers' demands, as well as the ability to organize and deliver that supply. In this cutting edge work, Baudin addresses the physical infrastructure of lean logistics and the flow of information that composes its nervous system. He demonstrates the methods that will allow you to avoid shortages while maintaining low inventories, while showing you how to take advantage of the increased capacity and flexibility generated through lean manufacturing. This book picks up where the Baudin’s previous book, Lean Assembly, left off.

Unlike other strategic procurement guides, Lean Supply Chain Management considers an organization's "business condition" as a contributing factor in the development of a strategic procurement strategy. That is, rather than taking a "one-size fits all" approach, the author's more individualized approach illustrates techniques specific to organizations operating in a standard or crisis environment. Highlights include: Methods for developing and tracking strategic procurement initiatives. Planning in the "standard" and "crisis" environments. Coordinating supply chain management and lean manufacturing. Performance measurement tools. Lean Supply Chain Management provides purchasers and supplier development professionals with the tools needed to transform procurement from a mere cost center to a profit generator. Lean thinking has expanded beyond its origins in repetitive manufacturing to other types of manufacturing processes such as process and product processes, and more recently to the administrative, supply chain, and operations management functions in a variety of industries. While there are many books written on the basics of the "supply" side of the supply chain (i.e. strategic sourcing, sourcing/procurement and purchasing), however, there hasn't been much written on those areas from a Lean perspective. Considering that supply chain costs, primarily procurement and transportation, can range from 50 to 70 percent of sales, it's surprising that this area has not been fully explored. As a result, some companies tend to place too much emphasis on the traditional focus of reducing material costs instead of process improvement. Applying Lean principles to procurement and purchasing processes identifies non-traditional sources of waste, and in some cases, creates a paradigm shift that results in additional benefits to the entire supply chain. This book is unique because it details the basic supply management concepts and processes (i.e. sourcing, procurement, and purchasing) in an easy-to-understand format in combination with various process improvement tools, methodologies, best practices, examples and cases written from a Lean perspective. It focuses and pinpoints ways to identify waste on the supply side through improved processes and, in some cases, technology.

Lean Supply Chain and Logistics Management By Paul Myerson

This edited book describes new trends in supply chain design and management with an emphasis on technologies and methodologies. It contains guidelines detailing the real-world applications of these technologies and methodologies. This book is of interest to researchers and practitioners and can also be used as a reference handbook by lecturers and postgraduate students in this field. Speed to market, reducing costs, and accelerating leadtimes are vital for survival in today's competitive environment. Inventory is no longer considered an asset, and strategies are needed to operate with minimal inventories. Lean Six Sigma Logistics provides the vehicle to solidify strategic position, win overcustomers, and achieve ......

Lean Supply Chain and Logistics ManagementMcGraw Hill Professional

This chapter comes from Lean Sigma for Supply Chain Management, written by a master black belt/educator. Neatly condensed into a 10 step process, this book teaches you how to apply the tenets of lean operations (from the Toyota Production System) and Six Sigma management principles to supply chain management. Author Jim Martin includes more than 200 tables and figures describing roadmaps, critical success characteristics as well as specific information necessary to fully integrate Lean Six Sigma concepts within your supply chain. Innovative strategies for building and managing the supply chain using Lean and the Theory of Constraints (TOC) With an emphasis on systems thinking, Building Lean Supply Chains with the Theory of Constraints uniquely integrates TOC with Lean, illustrating how these two philosophies complement and reinforce each other to create the smooth flow of goods and services through the supply chain. The majority of the chapters draw on the tools and techniques of TOC, including throughput accounting, drum-buffer-rope, TOC in distribution and replenishment, the thinking process, and critical chain project management. All of these topics are presented in the context of building and managing a lean supply chain to achieve true bottom line results. Coverage includes: The lean supply chain roadmap Envisioning the lean supply chain: systems thinking Adopting a throughput world perspective Designing products and processes to fulfill customer needs Building a competitive operations strategy Partnering in the lean supply chain Streamlining the value stream Creating flow through the supply chain Managing projects the TOC way: critical chain project management

"Kirk Zylstra’s focus on the customer is a fresh approach to lean. Companies that can bear the burden of variability will develop an astigmatic advantage in today's volatile market." —Travis Jarrell Institute of Industrial Engineers Program Committee Chair "Lean Distribution is a comprehensive yet concise work with clear learnings. Kirk’s experience across a range of industries brings a unique understanding of common opportunities and solutions available to optimize distribution processes. Lean techniques, typically effective in manufacturing processes, are applied in the downstream supply chain in a practical and productive manner that will offer something to any business distributing tangible goods.” —F. Jeff Duncan Jr. VP, CIO, and Director of Technology, Louisiana Pacific Corp. "Lean Distribution has robustly captured the revolution occurring in today’s increasingly competitive and global supply chain. Eliminating losses through lean manufacturing and real distribution initiatives will become even more critical enablers to organizations developing cost-advantaged supply chains." —Rick McDonald Director of Manufacturing The Clorox Company

The UK's bestselling book on logistics and supply chain management – over 100,000 copies sold. Effective development and management of supply chain networks helps businesses cut costs and enhance customer value. This updated 5th edition is a clear guide to all the key topics in an integrated approach to supply chains. As well as new and updated examples and case studies, there are two new chapters: Routes to Market: Many companies now have to manage multiple distribution channels - this chapter covers strategic issues on how companies “go to market” along with the cost implications of using alternative channels. Service Logistics: As companies begin to sell performance rather than physical product, this chapter explores the implications for logistics management as the need to provide higher levels of service and customer support becomes ever more critical.

While there are a number of valuable resources that explain the Lean philosophy or focus solely on operations or
manufacturing, none provide an integrated, holistic view and the “how to” needed to address today’s relentless and severe pressure to gain or improve a competitive advantage. End-to-End Lean Management: A Guide to Complete Supply Chain Improvement fills an important void in the current literature. It shows how to apply Lean tools and techniques across the entire supply chain: from suppliers, through transportation, into operations, and through distribution to customers, with principles applicable to all types of organizations. Managers across all industries under constant pressure to find new sources of competitive advantage and to demonstrate performance improvements will find this book a timely and necessary resource.

The Introduction to Lean Supply Chain & Logistics Training Package has been designed to both train staff in the principles of Lean and create the understanding needed to commit to an organization-wide Lean Transformation. This comprehensive training package is action oriented to ensure successful learning and communication of Lean Principles. This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. Focus Your Supply Chain Technology Investments to Reduce Risk and Maximize Competitiveness Lean, Six Sigma, and related approaches offer immense potential for improving competitiveness, cost, and customer experience—if you can overcome the challenges of planning and implementation. The well-targeted use of technology can dramatically reduce your risks and accelerate your progress. Until now, however, many guidebooks and consultants have treated Lean primarily as a “pen and pencil” technique. Lean and Technology is the first complete guide to integrating Lean thinking with proven, affordable, and emerging technologies. You’ll learn how companies are linking strategy, the value chain, and IT—and how they are executing on their plans to achieve real competitive advantage. Step by step, Myerson shows how to use the proven six-step SCOR Model to organize the integration of technology with all key supply chain and operations processes. You’ll discover how to: PLAN to optimize supply chain networks, demand forecasting, master production scheduling, and S&OP SOURCE more effectively with today’s MRP and procurement/e-procurement technologies MAKE higher-value “lean production” products with modern ERP, MES, and short-term scheduling systems DELIVER the right customer solutions at the right time and cost via advanced DRP, TMS, and order fulfillment systems RETURN products and materials with state-of-the-art reverse logistics systems ENABLE continuous improvement via carefully chosen measurements, metrics, and analytics Throughout, Myerson presents easy-to-use tools, methodologies, best practices, and real-world examples: all you need to improve speed, accuracy, integration, and collaboration across complex supply chains. He concludes by previewing emerging technologies for maintaining and extending the competitive advantage you’ve already built.

CHANGE FOR THE BETTER! Learn to create world-class logistics and supply chains in any industry using kaizen's seven main principles At a time when businesses are restructuring to become more competitive, many seek a road map to improve their operations. Kaizen in Logistics and Supply Chains is at the forefront of this journey--and can point you in the right direction to help your company in implementing innovative production and logistics systems and changing its culture for the better. Based on the themes of Masaaki Imai's bestseller, Gemb Kaizen, considered the "bible" of the quality/management movement, this new work provides the first highly detailed explanation of how to create world-class logistics and supply chains regardless of industry. It includes more than 200 photographs, flow diagrams, value stream maps, and tables--and features a case study that illustrates how a company became more competitive by successfully implementing kaizen principles. There's never been a better guide to lead your company's quest for improvement. KEY FEATURES: Explanation of how the seven main kaizen principles can be applied to transform world-class logistics and worldwide supply chains Prerequisites for implementing these systems, including stabilization and change management activities Concrete steps to implementing kanban systems, internal and external logistics loops, design flow production lines, and supermarket systems Detailed real-world case study to illustrate successful implementation of the book's theories, and scorecards so readers can evaluate their progress in practice Foreword by Masaaki Imai, Founder and Chairman of the Kaizen Institute, and author of the bestseller Gemb Kaizen

Over the last two decades Tesco has emerged as a dominant player in the UK market and a leading global retailer. The Lean Supply Chain: 2nd Edition explores how Tesco, over the last 20 years or so, has built its business around supply chain excellence. As a mega-retailer, Tesco has learnt to create a balanced supply chain system, supporting suppliers' needs as well as customers' requirements. This perspective, and an ambition to act sustainably, has underpinned a rebuilding of trust in the Tesco brand and a resurgence in commercial fortunes. The first edition of The Lean Supply Chain was highly acclaimed, winning the prestigious Prix des Association 2016, in Les Plumes des Achats & Supply Chain. In this new edition, containing new chapters on Tesco's current strategy, rebuilding trust in the brand and the CSR agenda, the authors chart the principles of lean thinking, customer loyalty and simplicity which were used by Tesco to frame its supply chain strategy. They draw upon their deep knowledge of how the retailer has dealt with challenges and market changes from both academic and practitioner perspectives to provide lessons for other businesses, large or small, who wish to place how they manage their supply chains at the heart of their competitive strategy. This book provides an overview of the key transportation management processes from a shipper's perspective. It enables managers to gain quick insight in the added value of transportation as a strategic differentiator, its key drivers, and guidelines on how to use them in an effective and efficient decision-making process. It explains how to identify and eliminate waste using basic Lean tools and proven concepts. The reader is guided on how to start implementing the Lean methodology and best practices in the industry to realize significant savings. Companies such as Adidas and Amazon are using transportation to increase sales by delivering purchased products faster than the competition. These companies do not treat transportation as a cost center. They are not focusing on reducing transportation spending. They allow customers to buy any product that is available in any store or warehouse and have it delivered to their homes. By delivering faster than the competition, they increase sales. At the same time, they lower their total supply chain costs as...
faster deliveries lead to fewer returns. Reduction of returns means higher sales and lower transportation costs for returns. The result is higher profits while creating more value for the customer. Transportation is moving from a cost center towards a profit center. The traditional logistics service providers are perceived to not innovate fast enough. Top management must understand the transportation management basics and use it in their strategic decision-making. They should be involved in discussions on how to organize the transport management function in the best way and how to use it as a service differentiator. Transportation is more than the efficient movement of supplies, sub-assemblies and final products. In addition, it is more than the key performance indicators on the business-balanced scorecard. Transportation management professionals fail to catch top management’s attention due to the use of technical language. It is more difficult to understand transportation key performance indicators such as loading degree, net and gross pick-up and delivery reliability. It is easier to get top management attention when talking about lost sales due to stock-outs, lost tenders due to long delivery times, high inventory holding and scrap costs.

Presenting an alternate approach to supply chain management, Lean Supply Chain Management Essentials: A Framework for Materials Managers explains why the traditional materials planning environment, typically embodied by an Enterprise Resource Planning (ERP) system, is an ineffective support system for a company that wants to adopt Lean practices. It begins by defining supply chain management basics, including roles, objectives, and responsibilities from a traditional framework. Next, it describes Lean basics and explores the conflicts between Lean and the traditional framework. The book focuses on the materials management aspects of Lean, such as leveling work into the value stream, heijunka scheduling, standard work, and the concept of intervals, including Every Part Every Interval (EPEI). By combining traditional materials management tools, such as Sales and Operations Planning (S&OP), with Lean manufacturing approaches and applying them to different manufacturing environments, the authors clarify the logic behind why you are doing what you’re doing with Lean components and how they fit together as a system. Specifically, they explain how to: Determine which leveling strategy to use to smooth production Calculate interval to determine lot sizes in various production environments Apply Lean to purchasing, warehouse, and logistics areas Use your value stream map for green initiatives and risk management Replace capacity planning and shop floor control with visual factory, operator balance charts, EPEI, and plan for every part illustrating why balancing demand and capacity is better than trying to balance supply and demand, the book includes a definitive chart that matches Lean tools to the planning and control charts that have served as the model for ERP systems. It integrates the principles learned from Toyota’s fifty-plus-year journey with Lean principles to provide the up-to-date understanding required to approach the application of Lean to your supply chain with a methodology that allows for experimentation, learning, and continuous improvement.

Most books on Supply Chain Management simply focus on how to move materials and key resources throughout an industrial enterprise. Reinventing Lean shows how SCM can be made “Lean, leading to much more reliable, cost-effective and competitive Supply Chain Management (SCM). In this book, the reader will find a collection of management tools that will help to implement Lean principles, and to understand the components of an integrated Supply Chain Management system. Moreover, the book will show that to make Lean SCM effective, both the functional management tools as well as an enterprise-wide cultural readiness are needed in order to lay the groundwork for a World Class Lean Supply Chain. Reinventing Lean will carefully lead engineers and manufacturing managers on how to adopt a cutting-edge Lean Supply Chain strategy. The book will lay out various proven approaches to incorporating Lean and SCM practices, by focusing on the ways in which Lean relates to materials, money, and information movement within the manufacturing environment. And because Reinventing Lean recognizes that a successful Lean SCM system cannot be achieved unless an organization supports team integration and the willingness to adapt to change, it provides not only the technical tools but also methods for changing company cultural factors that can make it all come together for a successful operation. Industrial engineers and plant managers, with strong backgrounds in SCM, will learn how Lean implementation principles can be utilized to make their organizations leaner, more efficient, and more competitive. Readers will find out how to lay out various approaches to incorporating Lean and SCM practices Readers can learn how to customize a cutting-edge Lean Supply Chain strategy which will give a distinct advantage over the competition. The described benchmarks for success and the many examples help explicate the complexities for the reader. The book is organized and written so that it will be useful as an introduction to the field and also as a reference when special challenges arise for the practicing manager." -- DR. JOHN J. COYLE, Professor Emeritus of Logistics and Supply Chain Management, Department of Supply Chain and Information Systems, Smeal College of Business, Pennsylvania State University "The book is a must-read for all supply chain managers seeking to drive down costs and improve profits and must be read before any investment is made in your supply chain. Get copies for your controller and all senior managers...this book lays it all out." -- DR. RICHARD LANCIIONI, Chair, Marketing & Supply Chain Management, Fox School of Business, Temple University Expert Strategies for Improving Supply Chain and Logistics Performance Using Lean This practical guide reveals how to identify and eliminate waste in your organization's supply chain and logistics function. Lean Supply Chain and Logistics Management provides explanations of both basic and advanced Lean tools, as well as specific Lean implementation opportunities. The book then describes a Lean implementation methodology with critical success factors. Real-world examples and case studies demonstrate how to effectively use this powerful strategy to realize significant, long-term improvements and bottom-line savings. COVERAGE INCLUDES: * Using Lean to energize your supply chain * The eight wastes * Lean opportunities and JIT in supply chain and logistics * Lean tools and warehouse * Global lean supply chain and logistics * Lean opportunity assessment, value stream mapping, and Kaizen event management * Best-in-class use of technology with Lean * Metrics and measurement * Education and training Valuable training slides are available for download.

Lean Procurement and supply chain management is for many companies. It is not just for manufacturers who practice lean management. It is also for non-manufacturers, wholesalers, distributors, retailers and others. During the past few years, companies have focused on supply chain improvements with initiatives centred on operational excellence and cost cutting. But have they worked? In today’s on-demand environment, companies are facing growing challenges around market volatility, costs, long lead times and unpredictable forecasts. Your inventory management decisions can make or break your firm’s financial bottom line. You will find strategies in this book that will let your company meet these daily challenges and optimize working capital efficiency. Enna's Lean Supply Chain & Logistics Simulation will help your company realize its goal of becoming more Lean, more agile, and taking a lead over the competition. This is a hands-on simulation that demonstrates the effectiveness of Lean in the specialized context of the Supply Chain, Logistics, and Distribution environment. Throughout the three rounds of the simulation the participants will learn the importance of reducing batch size and streamlining the process flow, as well as learning how to apply new concepts. Step by step, team members become familiar with Lean and take these Lean concepts and apply them directly during the simulation. By dealing with everything from orders received, working with the supplier, and finally shipping the product, the participants will gain an understanding of the importance of seeing the entire Supply Chain. The simulation comes with a Flash presentation, including a results tracking sheet that is completed at the end of each round in order to help visualize improvement and profitability. Through a subtle change between Rounds 1 and 2, and a larger Lean transformation after Round 3, the benefits of Lean will become clearly apparent. Not only does this visualization help the participants see and
experience Lean, but also how it will be advantageous to them and their own job.

A Proven 10-Step Solution Process to Identify and Solve Supply Chain Problems Using the Latest Lean Methods Fully revised to cover recent dramatic developments in supply chain improvement methodologies, this strategic guide brings together the Six Sigma and Lean manufacturing tools and techniques required to eliminate supply chain issues and increase profitability. This updated edition offers new coverage of enterprise kaizen events, big data analytics, customer loyalty metrics, security, sustainability, and design for excellence. The structured 10-Step Solution Process presented in the book ensures that clear goals are established and tactical objectives are consistently met through the deployment of aligned Lean Six Sigma projects. Written by a Master Black Belt and Lean Six Sigma consultant, this practical resource also provides an inventory model and Excel templates for download at www.mhprofessional.com/LSSSCM2. Lean Six Sigma for Supply Chain Management, Second Edition, covers: Lean Six Sigma applications for service, supply chain, and manufacturing systems Deploying Lean Six Sigma projects using Lean tools and models Demand management impact on Lean Six Sigma projects Lead time impact on Lean Six Sigma projects Root-cause analysis using Six Sigma Tools (with operations research methods) Applications to Lean Six Sigma supply chains and third-party logistics Big data analytics, security, and sustainability applications Voice of the Customer, Kano, and loyalty metrics Supply chain design for excellence methods Lean Six Sigma maturity model

Capitalize on a Powerful, 10-Step Improvement Process to Identify and Solve Supply Chain Problems in Industrial Organizations! Six Sigma practitioners and industrial managers who want to improve supply chain effectiveness in their organizations now have a powerful new weapon to add to their arsenal! Lean Six Sigma for Supply Chain Management offers a unique 10-step improvement process for identifying and solving the root causes of supply chain problems in everyday operations. Written by Master Black Belt James William Martin, this proven management tool combines key aspects of Lean Manufacturing (from the Toyota Production System) and Six Sigma management principles in order to create a Lean Six Sigma approach that can dramatically improve supply chain function. Lean Six Sigma for Supply Chain Management contains specific information for developing inventory models, metrics for aligning objectives with strategic goals, a concise overview of supply chain concepts, and models illustrating how lead time and demand impact customer service and inventory investment levels. This vital resource features: A complete program for Lean Six Sigma improvement and control The latest Lean Six Sigma methods to identify and manage supply chains Expert help with Lean Six Sigma supply chains and third party logistics Applications of Lean Six Sigma to MRPII Guidance on root-cause analysis using Six Sigma tools Designed to help Six Sigma professionals and frontline managers achieve higher levels of competitiveness, Lean Six Sigma for Supply Chain Management provides the guidelines, tools, and techniques required to eliminate supply chain problems and boost company performance.