Designing And Managing The Supply Chain Concepts Strategies And Case Studies

In dieser Doktorarbeit werden vier individuelle Untersuchungen im Bereich der Supply Chain Robustheit durchgeführt. Das übergeordnete Ziel dieser ist die Entwicklung eines konzeptionellen Rahmens der Supply Chain Robustheit. Dafür wird aktuelle Literatur in diesem Forschungsfeld zusammengefügt und ein Schema mit Bestimmungsfaktoren zur Erhöhung von Robustheit in Käufer-Lieferantenbeziehungen entwickelt. Motivation für diese wissenschaftliche Arbeit ist ein beobachteter Anstieg von Unterbrechungen in Supply Chains sowie eine weiterhin anhaltende Outsourcing-Tendenz und die dadurch wachsende Bedeutung von Beziehungen in Supply Chains. In dieser Arbeit werden zwei Literaturstudien sowie zwei empirische Untersuchungen durchgeführt. Erstens wird die Methode der „Systematic Literature Reviews“ für das Forschungsgebiet des Supply Chain Managements überarbeitet. Zweitens erfolgt die Entwicklung eines konzeptionellen Rahmens sowie eine Definition des Konstrukt es Supply Chain Robustheit. Drittens werden Bestimmungsfaktoren zur Schaffungen von Robustheit in Käufer-Lieferantenbeziehungen identifiziert und in einem vierten Schritt validiert. Dieser doctoral thesis develops four individual research studies on supply chain robustness. The overall goal of these studies is to develop a conceptual framework of supply chain robustness by consolidating current literature in the field, and, drawing on that framework, to construct a schema of determinants that facilitate robustness in buyer-supplier relationships. This research is motivated by an observed increase of supply chain disruptions, as well as an increasing trend towards outsourcing and a subsequent rise in the importance of supply chain relationships. It methodologically builds on two literature studies and two empirical studies. The thesis develops refined methodology guidelines for conducting literature reviews in supply chain management, proposes a conceptual framework for supply chain robustness putting forward a formal definition of the construct, and identifies and validates four relational determinants that facilitate robustness against disruptions in buyer-supplier relationships.

In today's environment of tight budgets and even tighter turnovers, effective supply-chain management has become a core business requirement. Managing the Supply Chain adapts the number one supply-chain book on the college market to examine how professionals can consistently turn supply-chain strategy into a competitive advantage. This results-based book examines the experiences of today's most accomplished companies to demonstrate supply-chain innovation at work in the marketplace.

In a context of global competition, the optimization of logistics systems is inescapable. Logistics Systems: Design and Optimization falls within this perspective and presents twelve chapters that will illustrate the variety and the complexity of logistics activities. Each chapter is written by recognized researchers who have been commissioned to survey a specific topic or emerging area of logistics. The first chapter, by Riiopel, Langevin, and Campbell, develops a framework for the entire book. It classifies logistics decisions and highlights the relevant linkages to logistics decisions. The intricacy of these linkages demonstrates how thoroughly the decisions are interrelated and underscores the complexity of managing logistics activities. Each of the chapters focuses on quantitative methods for the design and optimization of logistics systems.

Supply chain management decisions are made under the conflicting criteria of maximizing profit and customer responsiveness while minimizing supply chain risk. Multiple Criteria Decision Making in Supply Chain Management provides a comprehensive overview of multi-criteria optimization models and methods that can be used in supply chain decision making. Presenting the contributions of internationally known authors, researchers, educators, and practitioners, this new book in the Operations Research Series provides readers with a single source guide to recent developments in this area. The focus of the book is on the design and operation of the supply chain system, which involves connecting many production and distribution systems, often across wide geographic distances, in such a way that the businesses involved can ultimately satisfy the consumer demand as efficiently as possible, resulting in maximum financial returns to those businesses connected to that supply chain system. The book includes several case studies on the design and operation of supply chain networks in manufacturing and healthcare.

A brand new collection of world-class supply chain design solutions... 3 authoritative books, now in a convenient e-format, at a great price! 3 authoritative eBooks deliver state-of-the-art guidance for designing and optimizing highly competitive global supply chains! This unique 3 eBook package will help you design state-of-the-art supply chains that deliver rapid, quantifiable, and sustainable competitive advantage. The Encyclopedia of Operations Management is the perfect single-volume "field manual" for every supply chain or operations management practitioner and student. Nearly 1,500 well-organized, up-to-date definitions cover every facet of supply chain design, planning, management, and optimization. Next, in Reinventing the Supply Chain Life Cycle, Marc J. Schniederjans and Stephen B. LeGrand show how to optimize supply chains throughout their entire lifecycle: creation, growth, maturity, and decline! Reflecting up-to-the-minute "in-the-trenches" experience and pioneering research, this book illuminates the complex transformational processes associated with managing complex supply chains that incorporate multiple products and services within ever-changing networks. They walk you through: starting, creating, and building new supply chains; realigning them for growth; adjusting to dynamic change, readjusting networks, building flexibility, and managing new risks. Next, they offer practical, realistic guidance for realigning "mature" supply chains, innovating, controlling costs; and smoothly managing declining demand. Throughout, they offer invaluable insights, tools, and examples for negotiation, performance measurement, anticipating change, improving agility, meeting commitments to social responsibility and the law; and more. Finally, in Supply Chain Network Design, four leading IBM and Northwestern University experts show how to use strategic supply chain network design to achieve dramatic new savings. They integrate rigorous principles and practical applications to help you select the right number, location, territory, and size of warehouses, plants, and production lines; and optimize the flow of all products through even the most complex global supply chain. You'll find better ways to decide what (and where) to manufacture internally; and which products to outsource (and to whom). You'll get help managing cost vs. service-level tradeoffs; using analytics to improve decision-making; and re-optimizing regularly for even more savings. Whatever your role in supply chain design, this collection will help you systematically optimize performance, customer value, and profitability. From world-renowned supply chain experts Arthur V. Hill, Marc J. Schniederjans, Stephen B. LeGrand, Michael Watson, Sara Lewis, Peter Cacioppi, and Jay Jayaraman

Customer satisfaction is a pivotal component to any business that provides goods or services to the public. By effectively managing the flow of products, business can adapt to the growing demands of consumers and deliver successful customer service. The Handbook of Research on Strategic Supply Chain Management in the Retail Industry is an authoritative reference source for the latest scholarly research on properly managing business processes in order to satisfy end-user requirements and increase competitive advantage in the retail marketplace. Highlighting concepts relating to field applications, customer relationships, and current trends in logistics management, this book is ideally designed for business professionals, managers, upper-level students, and researchers interested in innovative strategies and best practices in modern supply chains.

ASQ's Certified Quality Improvement Associate (CQIA) certification is designed to introduce the basics of quality to organizations and individuals not currently working within the field of quality. This book and the Body of Knowledge (BOK) it supports are intended to form a foundation for further study and application of proven quality principles and practices worldwide. The book follows the CQIA BoK in both content and sequence. The intent is that this book will serve as a guide to be used in preparation to take the CQIA examination given by ASQ. Each chapter stands alone, and the chapters may be read in any order. Some material reaching beyond the content of the BoK has been added. Supplemental reading suggestions are provided. An online, interactive sample exam and a paper-and-pencil sample can be found on the ASQ website (http://asq.org/cert/quality-improvement-associate/prepare).
This textbook presents a coherent and robust structure for integrated risk management in the context of operations and finance. It explains how the operations-finance interface jointly optimizes material and financial flows under intricate risk exposures. The book covers financial flexibility, operational hedging, enterprise risk management (ERM), supply chain risk management (SCRM), integrated risk management (IRM), supply chain finance (SCF), and financial management of supply chain strategies. Both qualitative and quantitative approaches — including conceptualization, theory building, analytical modeling, and empirical research — are used to assess the value creation by integrating operations and finance. “This book provides a comprehensive description of the interactions between finance and operations and of how managers can best make decisions in recognition of these effects.” John R. Birge, University of Chicago “Supply chain finance is an emerging area where innovations can unlock great values to complement the advances in information and physical flows of supply chain.” Hau L. Lee, Stanford University “This book provides an excellent overview of supply chain finance and its most recent advances.” Jan A. Van Mieghem, Northwestern University “This book is indispensable for advanced students as well as practitioners when looking for a pedagogical sound and scientific rigorous approach to Supply Chain Finance.” Ralf W. Seifert, IMD/EPFL “The book advances our knowledge on the interface between operations and finance and provides managerial guidelines for effective risk management in the supply chain.” Xiande Zhao, CEIBS

Behavioral Operations Management has been identified in the last years as one of the most promising emerging fields in Operations Management. Behavioral Issues in Operations Management explains and examines up-to-date research in this field, which works to analyze the impact of human behavior on the management of complex operating systems. A collection of studies from leading scholars presents different methodologies and approaches, supported by real data and case studies. Issues such as building trust and strong cooperative relationships with suppliers, enhancing motivation and designing proper incentives for stimulating more effective decision maker behaviors are considered. The main decision-making processes affected by behavioral issues are also analyzed with a focus on new product development, logistics, and supply chain integration. The broad coverage of methodologies and practical implications makes Behavioral Issues in Operations Management an ideal reference for both researchers developing new topics such as NK fitness landscapes and managers with an interest in behavioral management operations.

Effective development and management of a supply chain network is an invaluable source of sustainable advantage in today’s turbulent global marketplace, where demand is difficult to predict and supply chains need to be more flexible as a result. This updated 4th edition of the bestselling Logistics and Supply Chain Management is a clear-headed guide to all the key topics in an integrated approach to supply chains, including: • The link between logistics and customer value. • Logistics and the bottom line measuring costs and performance. • Creating a responsive supply chain. • Managing the global pipeline. • Managing supply chain relationships. • Managing risk in the supply chain. • Matching supply and demand. • Creating a sustainable supply chain. • Product design in the supply chain. As the most up-to-date, cutting-edge supply chain management book on the market, the Third Edition of Designing and Managing the Supply Chain discusses the problems, models and concepts derived from issues related to effective supply chain management. While many core supply chain management issues are interrelated, the authors have tried to make each chapter as self-contained as possible so that the reader can refer directly to chapters covering topics of interest. Each chapter utilizes case studies and numerous examples. Mathematical and technical sections can be skipped without loss of continuity. Most textbooks do not include models and decision support systems robust enough for industry, but that is not true of this new edition. The accompanying CD-ROM also features the return of two simulations, the Computerized Beer Game and the Risk Pool Game and a computerized tool. These simulations help users develop and execute supply chain contracts while also illustrating many of the concepts discussed in the text.

The subject of this book is supply chain logistics planning optimization under multiple uncertainties, the key issue in supply chain management. Focusing on the strategic-alliance three-level supply chain, the model of supply chain logistics planning was established in terms of the market prices and the market requirements as random variables of manufactured goods with random expected value programming theory, and the hybrid intelligence algorithm solution model was designed. Aiming at the decentralized control supply chain, in which the nodes were unlimited expansion, the chance-constrained stochastic programming model was created in order to obtain optimal decision-making at a certain confidence level. In addition, the hybrid intelligence algorithm model was designed to solve the problem of supply chain logistics planning with the prices of the raw-materials supply market of the upstream enterprises and the prices of market demand for products of the downstream enterprises as random variables in the supply chain unit. Aimed at the three-stage mixed control supply chain, a logistics planning model was designed using fuzzy random programming theory with customer demand as fuzzy random variables and a hybrid intelligence algorithm solution was created. The research has significance both in theory and practice. Its theoretical significance is that the research can complement and perfect existing supply chain planning in terms of quantification. Its practical significance is that the results will guide companies in supply chain logistics planning in the uncertain environment.

Inleiding tot een methode voor het stroomlijnen van bedrijfssprocessen, het verbeteren van efficiëntie en effectiviteit en het vergroten van de klanttevredenheid.

As the most up-to-date, cutting-edge supply chain management book on the market, the third edition of Designing and Managing the Supply Chain discusses the problems, models, and concepts derived from issues related to effective supply chain management. While many core supply chain management issues are interrelated, the authors have tried to make each chapter as self-contained as possible, so that the reader can refer directly to chapters covering topics of interest. Each chapter utilizes case studies and numerous examples. Mathematical and technical sections can be skipped without loss of continuity. Most textbooks do not include models and decision support systems robust enough for industry, but that is not true of this new edition. The accompanying CD-ROM also features the return of two simulations, the Computerized Beer Game and the Risk Pool Game, and a computerized tool. Guiding readers through each stage in the design and implementation of service operations, this book combines lively examples that are easy to relate to with clearly explained theory. Readers are introduced to the main differences between managing services to managing products and given a concise induction into the core principles of operations management. The text then maps out each consecutive stage in the life of a service, from the initial business proposal for a new service, through market research practices, to the development and implementation of a service and concludes with the termination and disposal of a service.

Never HIGHLIGHT a Book Again! Virtually all of the testable terms, concepts, persons, places, and events from the textbook are included. Cram101 Just the FACTS101 studyguides give all of the outlines, highlights, notes, and quizzes for your textbook with optional online comprehensive practice tests. Only Cram101 is Textbook Specific. Accompanys: 9780073341521 9780072982398 .

Heavy industrialization in the past few decades has caused several global environmental issues including poor air quality, climate change, and outdoor air pollution-related diseases. As such, consumer pressure coupled with strict governmental policies have influenced firms to adopt and implement green practices in their supply chain and business operations in order to improve socio-environmental sustainability. Global Perspectives on Green Business Administration and Sustainable Supply Chain Management is an essential reference book that discusses innovative green practices including recycling, remanufacturing, reduction in waste and adoption of renewable energy in manufacturing. It also examines environmentally friendly policies that have been adopted by many European and Western countries. Featuring coverage on a broad range of topics such as energy analysis, environmental protections, and logistics development, this book is ideally designed for managers, operations managers, executives, manufacturers, environmentalists, researchers, industry practitioners,
This book focuses on supply chain management in emerging markets. The authors present issues relating to supply chain development covering countries such as Brazil, China, the Czech Republic, Russia, Indonesia, Malaysia, Nepal, Turkey, Egypt and South Africa and focuses on the challenges faced when the supply chain is designed and maintained. Such challenges derive from issues to do with risk, security, quality management and infrastructure among others. Case studies and survey results are presented in chapters which explore practical solutions to these issues. The latter will be of interest not only to local and international managers, but also to students who are interested in emerging economies. The book covers manufacturing, retail and food chains at the local and international levels.

An Annotated Timeline of Operations Research: An Informal History recounts the evolution of Operations Research (OR) as a new science - the science of decision making. Arising from the urgent operational issues of World War II, the philosophy and methodology of OR has permeated the resolution of decision problems in business, industry, and government. The Timeline chronicles the history of OR in the form of self-contained, expository entries. Each entry presents a concise explanation of the events and people under discussion, and provides key sources where further relevant information can be obtained. In addition, books and papers that have influenced the development of OR or helped to educate the first generations of OR academics and practitioners are cited throughout the book. Starting in 1564 with seminal ideas that form the precursors of OR, the Timeline traces the key ideas and events of OR through 2004. The Timeline should interest anyone involved in OR - researchers, practitioners, academics, and, especially, students - who wish to learn how OR came into being. Further, the scope and expository style of the Timeline should make it of value to the general reader interested in the development of science and technology in the last half of the twentieth century.

This book provides insights and supports executives, middle managers and practitioners concerned with the management of supply chain with expertise, knowledge, information and organizational management development in different types of industries”--Provided by publisher. This research handbook provides a comprehensive, integrative, and authoritative resource on the main strategic management issues for companies within the e-business context. It covers an extensive set of topics, dealing with the major issues which articulate the e-business framework from a business perspective. The handbook is divided into the following e-business related parts: background; evolved strategic framework for the management of companies; key business processes, areas and activities; and, finally, emerging issues, trends and opportunities, with special attention to diverse Social Web-related implications. The articles are varied, timely and present high-quality research; many of these unique contributions will be especially valued and influential for business scholars and professionals interested in e-business. Many of the contributors are outstanding business scholars who are or have been editors-in-chief of top-ranked management and business journals or have made significant contributions to the development of their respective fields.

Containing the most influential papers from the International Symposium on Logistics, Developments in Logistics and Supply Chain Management demonstrates the evolution in logistics and supply chain management since the 1990s. Supply Chain Management (SCM) is a wide field in which several specialties are included. In general, operations and production management players use SCM to organize the problems and analyze the solution approaches. Due to these points, a reference which can encompass a range of problems and their modelling approaches is required. This book will contain three general sections of forward, reverse, intelligent, and uncertain problems. While the book provides different problems in the three commonly used categories in SCM, it is very helpful for the readers to find out, or adapt their own application studies to the ones given in the book and employ the corresponding modeling approach.

Supply chain management, both in industry and in academia, has grown rapidly over the past several years mainly due to an increase in corporate goals of reducing manufacturing costs and the savings that come from planning and managing the supply chain effectively. Most textbooks do not include models and decision support systems robust enough for industry. Designing and Managing the Supply Chain: Concepts, Strategies, and Cases, 2/e by Simchi-Levy, Kaminsky and Simchi-Levi discusses the problems, models and concepts derived from issues related to effective supply chain management. This text is suitable for both academic study and practicing professionals. While many core supply chain management issues are interrelated, the authors have tried to make each chapter as self-contained as possible so that the reader can refer directly to chapters covering topics of interest. Each chapter utilizes case studies and numerous examples. Mathematical and technical sections can be skipped without loss of continuity. The accompanying CD-ROM also provides two simulations, the Computerized Beer Game and the Risk Pool Game and a computerized tool, new to this edition, for developing and executing supply chain contracts. These packages help illustrate many of the concepts discussed.

Designing and Managing the Supply Chain, 3/e provides state-of-the-art models, concepts, and solution methods that are important for the design, control, operation, and management of supply chain systems. In particular, the authors attempt to convey the intuition behind many key supply chain concepts and to provide simple techniques that can be used to analyze various aspects of the supply chain. Topical coverage reflects the authors’ desire to introduce students to those aspects of supply chain management that are critical to the success of a business. Although many essential supply chain management issues are interrelated, the authors strive to make each chapter as self-contained as possible, so that the reader can refer directly to chapters covering topics of interest. Each chapter utilizes numerous case studies and examples, and mathematical and technical sections can be skipped without loss of continuity. The 3rd edition represents a substantial revision. While the structure and philosophy were kept intact, the authors placed an increasing importance on finding or developing effective techniques that illustrate many important supply chain issues. At the same time, motivated by new developments in industry, they added material on a variety of topics new to the book while increasing the coverage of others.


The second edition of this textbook comprehensively discusses global supply-chain and operations management, 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 starts with an introductory case study, and 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. It also examines matching supply and demand, which is a core aspect of tactical planning, before turning to the allocation of resources for fulfilling customer demands. This second edition features three new chapters: “Supply Chain Risk Management and Resilience”, “Digital Supply Chain, Smart Operations, and Industry 4.0”, and “Pricing and Revenue-Oriented Capacity Allocation”. These new chapters provide the structured knowledge on the principles, models, and technologies for managing the supply-chain risks and improving
supply-chain and operations performance with the help of digital technologies such as Industry 4.0, additive manufacturing, Internet-of-Things, advanced optimization methods and predictive analytics. The existing chapters have been updated and new case studies have been included. In addition, the preface provides guidelines for instructors on how to use the material for different courses in supply-chain and operations management and at different educational levels, such as general undergraduate, specialized undergraduate, and graduate courses. The companion website www.global-supply-chain-management.de has also been updated accordingly. In addition, the book is now supported by e-manuals for supply-chain and operations simulation and optimization in AnyLogic and anyLogistix. Providing readers with a working knowledge of global supply-chain and operations management, with a focus on bridging the gap between theory and practice, this textbook can be used in core, special and advanced classes. It is intended for broad range of students and professionals involved in supply-chain and operations management.

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Studieboek logistiek op hbo/wo-niveau.

An eternal dilemma for all organizations, and one that a considerable portion of management schools are set up to address, is how to become and stay competitive. Organisational Resilience: Concepts, Integration, and Practice brings together, for the first time, key works that describe the scope and nature of resilience and provides direction to take the field forwards. A response not only to rapidly growing interest in this field, but to the increased importance placed on it, the book presents a broad introduction to research, knowledge, and practice. The book captures the diversity and depth of current thinking about research on organizational-related resilience. The book explains fundamental concepts and clarifies some underlying ideas from diverse fields of resilience-related research. It examines how some of these concepts and ideas have been integrated into specific research activity and used to further develop their respective fields of enquiry. The connecting of concepts and ideas to existing readily helps to progress the development of theory. The book then focuses on aspects of real World practice and experience. However, the central theme about resilience as a concept is that it is not merely concerned with survival pure and simple, but that this survival involves transformation more often than not. Examining resilience at the organizational level, this book clarifies the commonality of concepts and practice that exists among disparate research disciplines and establishes a singular 'go-to' work that can be used to develop operational and strategic practices.

Using strategic supply chain network design, companies can achieve dramatic savings from their supply chains. Now, experts at IBM and Northwestern University have brought together both the rigorous principles and the practical applications you need to master. You’ll learn how to use supply chain network design to select the right number, location, territory, and size of warehouses, plants, and production lines; and optimize the flow of all products through your supply chain even if extends around the globe. The authors present better ways to decide what to manufacture internally, where to make these products, which products to outsource, and which suppliers to use. They guide you in more effectively managing tradeoffs such as cost vs. service level, improving operational decision-making by integrating analytics throughout supply chain management; and re-optimizing regularly for even greater savings. Supply Chain Network Design combines best practices, the latest methods in optimization and analytics, and cutting-edge case studies: everything you need to maximize the value of supply chain network design. For all supply chain executives, managers, strategists, and analysts; and for all students, instructors, and researchers in advanced supply chain management and/or logistics courses.

The discipline of technology management focuses on the scientific, engineering, and management issues related to the commercial introduction of new technologies. Although more than thirty U.S. universities offer PhD programs in the subject, there has never been a single comprehensive resource dedicated to technology management. "The Handbook of Technology Management" fills that gap with coverage of all the core topics and applications in the field. Edited by the renowned Doctor Hossein Bidgoli, the three volumes here include all the basics for students, educators, and practitioners

Supply Chain Design and Management introduces the concept of a sharing mechanism that will ensure the sustainability of a supply chain by fair distribution of costs and benefits. This book provides a holistic view of the supply chain from product development, purchasing, manufacturing, distribution and storage, to retailing. The presentation of the enabling technologies in supply chain management will help companies better understand their options. § Provides a step-by-step framework for designing supply chains at the strategic level § Written for those who deal with the supply chains on a day-to-day basis as well as those new to the field § Provides a synthesis of best practices for managing supply chains at the tactical level § Provides a review of the state-of-the-art in enabling information technologies and business applications § Explains the concepts with examples from the industry and simple mathematical formulations § Is accessible to graduate students for an excellent understanding of how supply chains work and can join the industry armed with the knowledge of the workings of supply chains
During the last two decades, computer and information technologies have forced great changes in the ways businesses manage operations in meeting the desired quality of products and services, customer demands, competition, and other challenges. The Handbook of Computational Intelligence in Manufacturing and Production Management focuses on new developments in computational intelligence in areas such as forecasting, scheduling, production planning, inventory control, and aggregate planning, among others. This comprehensive collection of research provides cutting-edge knowledge on information technology developments for both researchers and professionals in fields such as operations and production management, Web engineering, artificial intelligence, and information resources management.

This book is dedicated to the issues and complexities of industrial services supply chain management. It analyzes how the transition from products to services can be managed, and how supply chains can be adjusted to reflect this new status quo. The book begins with chapters examining product-service systems structures and servitization – the services infusion process. Next, it presents industrial services as marketing and operations strategy. The focus shifts to service delivery, and this chapter discusses how the actual operations take place. This is followed by an examination of the role of technology and how connected assets are utilized by product vendors in value-creation. The book analyzes the transition from ownership to subscriptions in the pricing decisions chapter. Then the value chain effects chapter offers an overview of the mechanisms through which industrial companies are shortening the distance to end-users and aim for a better position in the value chain. Finally the conclusion addresses theoretical and empirical implications in the industrial services supply chain management.