

The Handbook Of Reverse Logistics From Returns Management To The Circular Economy

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Mechanical Life Cycle Handbook Mahendra Hundal 2001-09-11 "Explains how Design for the Environment (SFE) and Life Cycle Engineering (LCE) processes may be integrated into business and manufacturing practices. Examines major environmental laws and regulations in the U.S. and Europe, qualitative and quantitative analyses of "green design" decision variables, and heuristic search programs for a proactive future in ecological improvement."

The IOMA Handbook of Logistics and Inventory Management Institute of Management and Administration (IOMA) 2002-10-15 Practical, easy-to-implement advice on the most successful logistics management techniques being used today--from selecting the best carriers, setting logistics performance goals, and planning logistics strategies, to streamlining shipping and receiving and slashing logistics costs, and negotiating and managing third party logistics service providers.

Handbook of Research on Waste Management Techniques for Sustainability Akkucuk, Ulas 2015-12-03 Sustainability is a growing area of research in ecology, economics, environmental science, business, and cultural studies. Specifically, sustainable waste disposal and management is a growing concern as both solid and liquid wastes are rapidly expanding in direct correlation with population growth and improved economic conditions across regions. The Handbook of Research on Waste Management Techniques for Sustainability explores the topic of sustainable development in an era where domestic and municipal waste is becoming a concern for both human and environmental health. Highlighting a number of topics relating to pollution, green initiatives, and waste reduction in both the public and private sector, this research-based publication is designed for use by environmental scientists, business executives, researchers, graduate-level students, and policymakers seeking the latest information on sustainability in business, medicine, agriculture, and society.

Logistics Engineering Handbook G. Don Taylor 2007-12-14 Achieving state-of-the-art excellence and attaining the cost reductions associated with outstanding logistics efforts is an obvious gain in terms of competitive edge and profitability. As logistics tools evolve in comprehensiveness and complexity, and the use of these new tools becomes more pervasive, maintaining a position of leadership in logistics functions also becomes increasingly difficult. And in spite of its importance not only to the bottom line but also to the functionality of your operations, logistics improvement often lags industry requirements. Taking a unique engineering approach, the Logistics Engineering Handbook provides comprehensive coverage of traditional methods and contemporary topics. The book delineates basic concepts and practices, provides a tutorial for common problems and solution techniques, and discusses current topics that define the state of the logistics market. It covers background information that defines engineering logistics, activities and implementation, transportation management, enabling technologies, and emerging trends. Each chapter includes either a brief case study overview of an industrially motivated problem or a tutorial using fabricated data designed to highlight important issues. Presentation, organization, and quality of content set this book apart. Its most distinctive feature is the engineering focus, instead of the more usual business/supply chain focus, that provides a mathematically rigorous treatment without being overly analytical. Another important characteristic is the emphasis on transportation management, especially freight transportation. The section on emerging and growing trends makes the handbook particularly useful to the savvy logistics professional wishing to exploit possible future trends in logistics practice. The handbook is a one-stop shopping location for logistics engineering reference materials ranging from basics to traditional problems, to state-of-the-market concerns and opportunities.

The Global Business Handbook Mark J. Hooper 2016-03-09 A nation's economic success depends on the capacity of its companies and trading organizations to develop business relationships, trade and do business in the international arena. Doing business across borders subtly changes the processes and skills the successful manager needs. Cultural, social, geographic and legal factors serve to complicate the picture. The mantra for managers today is think global, act local. In this handbook the authors concentrate on the big developments that currently are happening at an international level. They consider how managers operating in the global business landscape must change what they do to create advantages and remain competitive. The Global Business Handbook is based on the structure of the very successful IESEG International School of Management's programme on international management. It includes a global focus, backed by the latest research on different aspects of international business carried out in different parts of the world.

Handbook on the Sustainable Supply Chain Joseph Sarkis 2019 Supply chain management has long been a feature of industry and commerce but, with increasing demands from consumers, producers are spending more time and money investing in ways to make supply chains more sustainable. This exemplary Handbook provides readers with a comprehensive overview of current research on sustainable supply chain management.

The Routledge Handbook of Waste, Resources and the Circular Economy Terry Tudor 2020-12-28 The Handbook introduces, contextualises, critiques, and discusses a range of perspectives associated with the concept of the circular economy. These perspectives span an array of subjects including economics, environmental policymaking, sociology, environmental science, environmental and industrial engineering, management, international development, and human geography. A fundamental underpinning of the Handbook is that it takes account of a wide range of sectors, as well as geographical perspectives that incorporate both a Global North and Global South world context. This approach is crucial because it is only within such a holistic perspective that the circular economy concept can truly be examined. In addition, these issues are examined both from a theoretical as well as a practical perspective, using real-world case studies for illustration. Given its wide subject, sectoral, and geographical areas of focus, the Handbook should be of value not only for those undertaking research in the field of circular economy, but also stakeholders involved in policymaking, as well as decision-making on the front line.

Closed-Loop Supply Chains Mark E. Ferguson 2016-04-19 Closed-loop supply chain activities such as remanufacturing, recycling, dismantling for spare parts, and reverse logistics have helped many companies tap into new revenue streams by finding secondary markets for their products, all while reducing their overall carbon footprint. A comprehensive yet concise presentation of closed-loop supply chain processes, Closed-Loop Supply Chains: New Developments to Improve the Sustainability of Business Practices investigates the state of the art in this rapidly growing and environmentally significant field. Written by academic experts, in language that is accessible to practitioners, this reader-friendly reference examines recent research and case studies of companies running profitable reuse/remanufacture/recycling operations in various industries. It illustrates profitable practices in returned and recovered products, and clearly explains how to: design a reverse logistics

network, conduct production planning, implement effective marketing strategies for recovered products, and apply closed-loop supply chain strategies in other industries besides manufacturing. From product development to materials to assembly and profitability, this authoritative resource illustrates the impact of these processes across all aspects of the supply chain. It provides a business perspective of how to properly implement these processes in your company to achieve profitable and sustainable operations in a more environmentally friendly manner. It also: Investigates strategic decisions companies face in regard to the secondary market for their products, including opportunity costs Examines tactical issues firms will face once the decision to remanufacture has been made, including how to market remanufactured products Summarizes the key characteristics and practices in a variety of industries where remanufacturing has been successful Explains how to conceptualize and manage changes due to switching to a closed-loop supply chain Demonstrates how to handle changing legislation Designed for ease of reference, each chapter covers a specific topic—in a completely self-contained manner—allowing readers to quickly and easily reference the chapters of particular relevance to their industry and situation.

Handbook of Research on Industrial Applications for Improved Supply Chain Performance García-Alcaraz, Jorge Luis 2019-10-18 In the industrial world, companies are always seeking competitive advantages to sustain themselves in the globalized market. A supply chain is one of these improvements that managers implement in order to stay ahead of the competition. However, certain methods of supply chains add risks such as the addition of costs, possible accidents, and economic losses. Because of this, companies are looking for techniques in which to progress their supply chain execution. The Handbook of Research on Industrial Applications for Improved Supply Chain Performance is a pivotal reference source that identifies techniques, tools, and methodologies that can improve supply chain performance and enable businesses to generate a competitive advantage in the globalized market. While highlighting topics such as material flow, route optimization, and green distribution, this publication is ideally designed for managers, executives, logistics engineers, production managers, warehouse operations managers, board directors, consultants, analysts, inventory control managers, researchers, academicians, industrial and managerial professionals, practitioners, and students looking to improve costs and quality of supply chains.

The Oxford Handbook of Business and the Natural Environment Pratima Bansal 2012 This Handbook discusses the main issues, research, and theory on business and the natural environment, and how they impact on different business functions and disciplines

The Handbook of Service Industries J. R. Bryson 2007-01-01 'It contains an impressive array of important and useful material that should be familiar to anyone interested in economic growth and change. . . the potential value to be gained from these collected works is great.' – James E. Pratt, Growth and Change Service activities are now acknowledged as key players in economic development, societal change and public policy worldwide. This exciting Handbook not only contributes to ongoing conceptual debates about the nature of service-led economies and societies; it also pushes back the frontiers of current critical thinking about the role of service activities in urban and regional development and the important research agendas that remain to be addressed. Drawing on both theory and case studies, the contributors are international experts who have written original and stimulating chapters from a number of different disciplinary perspectives. Each chapter seeks to raise awareness of, and to provoke debates about, the opportunities and challenges presented by the shift to service employment. Providing a truly interdisciplinary analysis, The Handbook of Service Industries will be invaluable to scholars specializing in services research, as well as students and researchers in the areas of economics, geography, business and management, sociology, public policy and planning. The policy-making community will also find the Handbook a relevant and useful resource.

Handbook of Research on Retailing Katrijn Gielens 2018-08-31 The advent of e-commerce and the rise of hard discounters have put severe pressure on traditional retail chains. Boundaries are blurring: traditional brick & mortar players are expanding their online operations and/or setting up their own discount banners, while the power houses of online retail are going physical, and hard discounters get caught up in the Wheel of Retailing. Even successful companies cannot sit back and rest, but need to prepare for the next wave of change. In the face of this complexity, it is all the more important to take stock of current knowledge, based on insights and experience from leading scholars in the field. What do we know from extant studies, and what are the ensuing best practices? What evolutions are ahead, and will current recipes still work in the future? This Handbook sheds light on these issues.

Pursuing Sustainability Chialin Chen 2021-03-03 This handbook includes three parts, corresponding to the following three domains of OR/MS research related to sustainability: (i) Systems Design, Innovation, and Technology, (ii) Manufacturing, Logistics, and Transportation, and (iii) Sustainable Natural Resource Management. The first part of the handbook (Chapters 2-6) will focus on the creation and development of sustainable products, services, value chains, and organizations from a systems perspective. Key areas to be covered include Green Design & Innovation, Technology and Engineering Management, Sustainable Value Chain Systems, Sustainability Standards and Performance Evaluation, and Circular Economy and New Research Directions in Sustainability. The second part of the handbook (Chapters 7-11) will concentrate on the major operational and logistic issues faced by today's industries in pursuing sustainability. Key areas to be covered include Remanufacturing, Reverse Logistics, Closed-Loop Supply Chains, Sustainable Transportation, and New Research Directions in Green Supply Chain Management. The third part of the proposed handbook (Chapters 12-16) will center on major sustainability issues in managing engineering infrastructure and natural resources. Key areas to be covered include Renewable Energy, Sustainable Water Resource, Biofuel Infrastructure, Natural Gas, and New Research Direction in Sustainable Resource Management. The handbook aims to bridge the three main OR/MS research domains in sustainability: "Systems Design, Innovation, and Technology," "Manufacturing, Logistics, and Transportation," and "Sustainable Natural Resource Management." Traditionally, these domains are treated separately in the OR/MS literature. By combining the three domains, the handbook will provide a more holistic treatment of MS/OR methodologies to address critical sustainability issues faced by today's society. Unlike most existing handbooks which only focus on current OR/MS research in sustainability within a domain, this handbook will include a concluding chapter in each of the three parts to discuss and identify potential future research directions in each of the three main domains.

The Handbook of Logistics and Distribution Management Alan Rushton 2017-01-03 Get a complete coverage on all the key aspects of distribution, logistics and supply chain planning and management with clear and straightforward explanations from the definitive guide to supply chain philosophy, strategy and the practicalities of logistics and distribution. The Handbook of Logistics and Distribution Management is a step-by-step guide to setting up and managing supply chains to add maximum value to the organizations they serve. Benefiting from the author team's years of practical experience in some of the most challenging environments across the world (from developed economies to third-world countries and war zones), this book will enthuse students and be an invaluable desk reference throughout their careers. Packed with worked examples and real-world data, The Handbook of Logistics and Distribution Management offers complete coverage on all the key aspects of distribution, logistics and supply chain planning and management with clear and straightforward explanations. This is not a compilation of work drawn from a disparate collection of research papers and miscellaneous projects, but a logical and complete view of how supply chains fit together, including minute details of distribution and logistics. This revised 6th edition of The Handbook of Logistics and Distribution Management provides solutions to today's key challenges. With new material on international freight forwarding, environmental best practice, cool chain, intermodal shipping and outsourcing and a new, detailed index of contents. New online resources include lecture slides (tables, images and formulae from the text), glossary of terms, weblinks, blog articles, video interviews and infographics.

The Handbook of Logistics and Distribution Management Alan Rushton 2014-01-03 The Handbook of Logistics and Distribution Management provides an introduction to fundamental elements of modern logistics and distribution. It explores all stages of the supply chain from raw materials through to the final distribution of the finished product. This handbook covers vital areas, including: concepts of logistics and distribution; planning for logistics; procurement and inventory decisions; warehousing and storage; freight transport; and operational management. The 5th edition of The Handbook of Logistics and Distribution Management has been radically updated to reflect the latest advances in logistics and covers new topics studied on academic and professional courses. There are brand new chapters on humanitarian

logistics, multichannel fulfilment and reverse logistics, as well as detailed discussion of the latest trends and issues that confront logistics. The Handbook of Logistics and Distribution Management is a practical handbook and an essential reference for logistics and supply chain practitioners as well as students undertaking professional examinations and degrees in the field of logistics and supply chain.

HANDBOOK OF MATERIALS MANAGEMENT P. GOPALAKRISHNAN 2015-01-13 This comprehensive research based, well received book, now in its Second Edition, continues to provide the most complete up-to-date coverage of the materials management discipline. It is the result of intensive and in-depth interactions of the authors with academic community, IIMM professionals as well as senior executives involved in materials, inventory, warehousing, logistics, supply chain, working capital and top management. This title reflects the wealth of experience gained by the authors in India and abroad in training, research, teaching and consultancy. This well-organised comprehensive book clearly analyses all the concepts, processes and applications of Materials Management, Supply Chain Management, Logistics Management, and Multimodal Transport. It covers basic principles and practices concerning these areas as well as to its application in Indian conditions. This textbook describes the concept of integrated materials management with the help of diagrams, charts, photos and solved examples, covering all the aspects of materials management. It provides a number of solved practical problems and examples for better comprehension. The suggestions of practising professionals, academicians and researchers have been appropriately incorporated in this book. An attempt has been made to strike a balance between conceptual frameworks and practical aspects of materials and its management. Intended primarily as a textbook for graduate students pursuing materials management courses in Indian universities, this comprehensive title will also serve as a ready reckoner for the executives practising in areas such as materials, logistics, SCM, purchase, warehousing and inventory management. The students of business management, engineering, Indian Institute of Materials Management (IIMM) diploma and other related programs/courses will find this book extremely useful.

Guide to Supply Chain Management Colin Scott 2018-06-01 This essential guide brings supply chain theory to life. Intended for readers with a business interest in supply chain management, the book covers the key topics in eleven chapters, including planning, sourcing, making, delivering and returning, as well as strategy, people, finance, customer service and outsourcing. Each chapter starts with a brief summary and learning objectives that guide the reader through the text. This second edition also explores digital, sustainability and innovation impacts on today's global supply chains. The book is written in a clear and simple way, featuring a variety of figures, tables and recommendations for further reading. The respective chapters conclude with real-life case studies from different companies, illustrating best practices. In the course of their work, the authors have met professionals all over the world who are passionate about their business achievements. By including their vivid examples, the guide brings theory to life, enabling readers to understand and embrace the concepts and ideas presented. Colin Scott, Henriette Lundgren and Paul Thompson are experts in supply chain management and have worked with practitioners in businesses across the globe. Endorsement: This guide is a really useful reminder of what good practice is and how it should be applied within supply chain management. The book is relevant for students of supply chain management and professional practitioners alike. This book offers an invaluable guide to understanding the specific dynamics of your supply chain and the fundamentals underpinning it. It provides the framework for delivering a supply chain strategy based upon recognised best practice. Martin McCourt, CEO, Dyson Limited .

Handbook of Sustainability Management Christian N. Madu 2012 Handbook of Sustainability Management.

Practical Handbook of Warehousing Kenneth B. Ackerman 2012-12-06 This is a fourth edition of a work first published in 1983. It contains the same number of chapters as the third edition, published in 1990. However, it has a substantial amount of new material. Major changes in warehousing in the last seven years have caused appropriate changes in the content of this text. Nearly three decades have passed since our first published writing about warehousing. The goal of our early writing was to develop a better understanding between the third-party warehouse operator and the user of these services. Today the emphasis has changed to a work that provides the tools that every warehouse manager needs. This book intends to be a comprehensive handbook consisting of everything we know that would help the manager of warehouses. Much of the information is based upon materials previously used in Warehousing Forum, our monthly subscription newsletter. While the work is designed primarily as a handbook for managers, it also serves as a guide for students. It is based upon my experience, both as a warehousing manager and executive, and later as a management advisor. The work is designed as a management reference for anyone involved in operating, using, constructing, or trading in industrial warehouses.

Reverse Logistics Rommert Dekker 2013-06-05 This book addresses decision making in reverse logistics, which concerns the integration of used and obsolete products back into the supply chain as valuable resources. It covers a wide range of aspects, related to distribution, production and inventory management, and supply chain management. For each topic, it highlights key managerial issues in real-life examples and explains which quantitative models are available for addressing them. By treating a broad range of issues in a unified way, the book offers the reader a comprehensive view on the field of reverse logistics.

Handbook of Humanitarian Health Care Logistics George Mc Guire 2015-10-31

Handbook of Research on the Applications of International Transportation and Logistics for World Trade Ceyhun, Gökçe Çiçek 2019-12-06 In today's developing world, international trade is a field that is rapidly growing. Within this economic market, traders need to implement new approaches in order to satisfy consumers' rising demands. Due to the high level of competition, merchants have focused on developing new transportation and logistics strategies. In order to execute effective transportation tactics, decision makers need to know the fundamentals, current developments, and future trends of intercontinental transportation. The Handbook of Research on the Applications of International Transportation and Logistics for World Trade provides emerging research exploring the effective and productive solutions to global transportation and logistics by applying fundamental and in-depth knowledge together with current applications and future aspects. Featuring coverage on a broad range of topics such as international regulations, inventory management, and distribution networks, this book is ideally designed for logistics authorities, trading companies, logistics operators, transportation specialists, government officials, managers, policymakers, researchers, academicians, and students.

Handbook of Research on Entrepreneurship Development and Opportunities in Circular Economy Baporikar, Neeta 2020-06-26 With the need for sustainability, a focus on developing an economic system that aims at minimizing waste, commonly referred to as the circular economy, is emerging. Circular economy and studies related to it have gained worldwide attention, as it seems to be an effective alternative economic system. Naturally, the circular economy will impact enterprises and will shift how entrepreneurship development and entrepreneurial opportunities are perceived, developed, and resourced. The Handbook of Research on Entrepreneurship Development and Opportunities in Circular Economy is a collection of pioneering research that advances the understanding of entrepreneurship development, identifies the opportunities, and manages the entrepreneurship development, policies, and programs in order to further a circular economy. In addition to entrepreneurship development and entrepreneurial opportunities, the book will cover and discuss a number of other factors necessary for a successful transformation, such as entrepreneurship and innovation, entrepreneurship and change, and entrepreneurship education. While highlighting topics including consumer consumption, knowledge management, and linear economics, this book is ideally designed for entrepreneurs, small business owners, managers, consultants, organization development specialists, policymakers, researchers, industry experts, academicians, and students.

The Handbook of Logistics and Distribution Management Alan Rushton 2000 Designed for students, young managers and seasoned practitioners alike, this handbook explains the nuts and bolts of the modern logistics and distribution world in plain language. Illustrated throughout, this second edition includes new chapters on areas previously not covered, such as: intermodal transport; benchmarking; environmental matters; and vehicle and depot security.

Handbook of Research on Urban and Humanitarian Logistics Gonzalez-Feliu, Jesus 2019-06-28 City logistics is one of the most popular fields of

transportation sciences, dealing with sustainably supplying cities and at the same time reducing congestion and pollution related to goods transport in urban areas. Recently, humanitarian, emergency, and crises logistics has been a subject of increasing interest, often seen from an international viewpoint. However, some of the recent natural crises have shown the importance of resilience and reliability of the current urban logistics systems. The Handbook of Research on Urban and Humanitarian Logistics is a critical scholarly publication that addresses urban logistics and resilience, sustainable urban logistics, humanitarian logistics in urban areas both for crisis or long-term, and planning for resilient urban development. Featuring a broad range of topics that discuss the new and future trends in urban logistics and resilient cities, this publication is ideal for public planners; urban planners; company managers in logistics and transport; consulting agencies; regional, national, and international institutions and organizations; researchers; academicians; and students.

Sustainable Reverse Logistics Network Daoud Ait-Kadi 2012-12-13 Traditional logistical chains have enabled us to respond efficiently to the needs of customers in terms of services and products. However, the returns, rejects and by-products of these activities have been eliminated or ignored. Reverse logistics aims at valuing these products using a value creation network integrating recovery, processing, recycling, distribution or clean removal processes. In the context of sustainable development, integrating economic, social and environmental factors, these activities raise questions concerning the design of products, processes and logistic networks. Taking these considerations into account involves significant changes that affect business models as well as consumer habits. New working methods and a long-term vision are the new bases for sustainable logistic networks. The objective of this book is to supply an educational tool for engineering schools, as well as a management tool for the efficient implementation of the reverse logistics function. It brings together the knowledge acquired by the scientific community. Even if reverse logistics has been the subject of several books over the past few years, very few theories have been developed and the subject is far from being exhausted. This book proposes generic concepts and processes that can be adapted to all businesses producing goods and services and which aim to integrate reverse logistics. These processes will enable us to shed light on their complexity and to take into account all the important variables. Contents 1. Logistics Challenge. 2. Reverse Logistics Engineering. 3. Ecodesign. 4. Value Loops.

A Handbook of Industrial Ecology Robert U. Ayres 2002-01-01 'The editors of this handbook have brought together 58 of the world's greatest environmental systems experts. These professionals have, in 46 specific topic headings, divided into six major sections, provided very insightful information and guidance as to what industrial ecology entails, how it can be implemented, and its benefits . . . a very valuable tool . . . This book provides essential information to mid- and top-level management that can enable industry to make more prudent business decisions regarding the manufacturing of its products.' - Robert John Klancko, Environmental Practice Industrial ecology is coming of age and this superb book brings together leading scholars to present a state-of-the-art overviews of the subject.

Handbook of Newsvendor Problems Tsan-Ming Choi 2012-06-09 As a fundamental problem in stochastic inventory control, the newsvendor problem has been studied since the 18th century in the economic literature, and has been widely used to analyze supply chains in fashion and seasonal product industries. Since the 1950s, the newsvendor problem has been extensively studied in operations research and extended to model a variety of real-life problems. The simplest and most elementary version of the newsvendor problem is an optimal stocking problem in which a newsvendor needs to decide how many newspapers to order for future demand, where the future demand is uncertain and follows a stationary distribution. Research in this area has greatly increased over the last few years, and now the Handbook of Newsvendor Problems: Models, Extensions and Applications captures the state of the art. The handbook consists of two sections -- Models and Extensions, and Applications. Each section includes many interesting works in the respective domain. Section I presents papers on topics like the multi-product newsvendor problems; the newsvendor problem with law invariant coherent measures of risk; a Copula approach to inventory pooling problems with newsvendor products; repeated newsvendor games with transshipments; cooperative newsvendor games; an economic interpretation for the price-setting newsvendor problem; newsvendor models with alternative risk preferences within expected utility theory and prospect theory frameworks; and newsvendor problems with VaR and CVaR consideration. Section II presents papers on such topics as a two-period newsvendor problem for closed-loop supply chain analysis; the remanufacturing newsvendor problem; inventory centralization in a newsvendor setting when shortage costs differ; production planning on an unreliable machine for multiple items; analysis of the newsvendor problem under carbon emissions policies; optimal decisions of the manufacturer and distributor in a fresh product supply chain involving long distance transportation; a newsvendor perspective on profit target setting for multiple divisions; and a portfolio approach to multi-product newsvendor problem with budget constraint. This well-balanced handbook presents a wealth of theoretical results from different perspectives. With contributions from many of the leading researchers in the field, the Handbook of Newsvendor Problems: Models, Extensions and Applications is a timely addition to the literature and consolidates all the new and exciting works related to the newsvendor problem into one high quality source.

Quality Management in Reverse Logistics Yiannis Nikolaidis 2012-10-08 Quality Management in Reverse Logistics intends to develop, collect, examine and evaluate a number of quality management (QM) tools and techniques, which can be applied in practice in order to understand, review and improve any closed-loop supply chain process. In other words, the book aims to examine the existing relationship between various well-developed and thoroughly studied quality issues, such as QM, quality assurance, standardization of processes and statistical quality control and the emerging research area of reverse logistics. Quality Management in Reverse Logistics contains modeling and quantitative methods that could be used by practitioners and academics in the reverse logistics industry, as well as a thorough description of QM tools and techniques. The book leads the potential reader to broaden their scope of thinking and acting in the new, promising area of reverse logistics, where QM can be applied.

Warranty Chain Management Albert Liao 2022-07-31 This book aims to provide a systemic viewpoint for enterprise to establish the warranty chain management system. This book includes warranty management practice, reverse logistics, product reliability engineering, data statistics and analysis, industry 4.0 and artificial intelligence, circular supply chain and sustainable design, and other basic theories and case descriptions. The author has many years' experience in academic and industrial management, and provides a management framework that especially takes into account (1) the implementation aspect - promotion of warranty plan and statistical analysis of data; (2) strategic aspect - digital application and sustainable development, with an overall system building point of view to describe the steps of warranty chain management step by step. There are rich industry cases in this book which has highly reference value for students, researchers and practitioners. Also this book fits to be used as teaching and training material in engineering management, which builds an overview of the product life cycle management from warranty service till the recovery stage.

Distribution Logistics Bernhard Fleischmann 2012-08-29 The complexity of distribution systems is augmented by various trends: globalization of the manufacturing industry, rising customer demands, and the reverse flows within closed-loop systems. In this light, the need for 'advanced' planning methods that are based on quantitative optimization is constantly increasing. This book takes up the challenges posed by these developments. In doing so, it presents recent results and case studies from a group of researchers that regularly meet at the IWDL (International Workshop on Distribution Logistics). The text covers the design of distribution networks, vehicle routing, warehousing and reverse logistics. It also contains a comprehensive review of more than 60 case studies in reverse logistics.

Handbook of Research on Supply Chain Management for Sustainable Development Akkucuk, Ulas 2018-05-11 The issue of sustainability has become a vital discussion in many industries within the public and private sectors. In the business realm, incorporating such practices allows organizations to redesign their operations more effectively. The Handbook of Research on Supply Chain Management for Sustainable Development is a critical scholarly resource that examines academic and corporate interest in sustainability in all facets of business management. Featuring coverage on a wide range of topics such as green supply chains, environmental standards, and production planning, this book is geared toward professionals, researchers, and managers seeking current and relevant research on optimizing supply chains to ensure

fair labor practices, lower emissions, and a cleaner environment.

Handbook of Research on Disruptive Innovation and Digital Transformation in Asia Ordóñez de Pablos, Patricia 2021-05-28 With new technologies constantly being created, implemented, and sold, it is a robust opportunity for companies to hop on board with the latest digital trends. With the business world undergoing rapid changes and advancements in current times, the transformation process has been rapid and the disruptions significant. This has created a culture of innovation and a plethora of available business opportunities, especially when focused on Central Asia, Southeast Asia, and East Asia. Along with these innovative technologies and new opportunities in the business world comes challenges and trends within the Asian region that require more attention and advanced research to fully understand this digital transformation era and the resulting impacts, challenges, and solutions. The *Handbook of Research on Disruptive Innovation and Digital Transformation in Asia* addresses key topics for understanding business opportunities in Asia, covering a variety of challenges and nations in the Asian region from technological disruption and innovation to connectivity and economic corridors in Asia, Islamic finance and tourism, and more. Due to its innovative topics and approaches, geographical focus, and methodologies, the chapters provide readers with a unique value in bringing new perspectives to understanding emerging businesses and challenges in Asia. This book is ideal for professors in academia, deans, students, politicians, policymakers, corporate heads of firms, senior general managers, managing directors, information technology directors and managers, and researchers.

Handbook of Research on Supply Chain Resiliency, Efficiency, and Visibility in the Post-Pandemic Era Ramakrishna, Yanamandra 2022-04-15 The COVID-19 pandemic has adversely affected the supply chains of all sectors of business worldwide. The pandemic has made it evident that by managing supply chains in a traditional manner organizations will no longer be able to achieve profits and improve customer satisfaction. This calls for immediate structural changes in organizations, flexible organizational culture, and a sense of urgency to redefine strategies related to supply chains. The *Handbook of Research on Supply Chain Resiliency, Efficiency, and Visibility in the Post-Pandemic Era* explores diverse strategies for achieving capabilities related to supply chain resilience and seeks to expand the existing body of knowledge in this area. It develops models, frameworks, and theoretical concepts related to supply chain resilience to enhance efficiency and improve visibility of supply chains. Covering topics such as change management, production relocation, and supply chain risk, this book is an essential reference for business leaders, corporate executives, industry practitioners, researchers, academicians, educators, and students.

Handbook of Supply Chain Management James B. Ayers 2006-04-24 Supply chain management (SCM) disciplines have produced a flood of new concepts, methods, and tools; if applied wisely, they will improve results. A resource that weeds out and consolidates this new information will lower the business risk of implementing change. Interpreting models and viewpoints from many fields into a supply chain context

Gower Handbook of Supply Chain Management John Gattorna 2017-03-02 The ability to build and also maintain a world class logistics and distribution network is an essential ingredient in the success of the world's leading businesses, but keeping pace with changes in your sector and in others is hard to do. With the *Gower Handbook of Supply Chain Management* you will need to look no further. Written by a team of leading consultants with contributions from leading academic experts, this book will help you to keep pace with the latest global developments in supply chain management and logistics, and plan for the future. This book has over thirty chapters with detailed accounts of key topics and the latest developments, from e-collaboration and CRM integration, to reverse logistics and strategic sourcing, and includes case studies from Asia, Europe and North America. It looks at all aspects of operational excellence in logistics and supply chain management. The *Gower Handbook of Supply Chain Management* will help managers to benchmark their operations against the best-of-breed supply chains across the world. It provides a unique single source of expert opinion and experience.

The Handbook of Technology Management, Supply Chain Management, Marketing and Advertising, and Global Management Hossein Bidgoli 2010-01-12 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

The Logistics Outsourcing Handbook Jo Godsmark 2019-12-03 For any business involved in today's supply chains, logistics services are critical. Companies have to decide whether to retain their own logistics operations or place their trust in third-party suppliers. This potential move away from the traditional approach of managing these processes internally can lead to improved service and reduced cost although this isn't always the case. The *Logistics Outsourcing Handbook* provides step by step guidance on the process of logistics outsourcing and explains how to apply this information for commercial success. Vital advice is given on benchmarking existing operations, how to shortlist companies, produce a request for a proposal, choose the optimum supplier and implement and manage the contract. The *Logistics Outsourcing Handbook* analyses outsourcing from both an industry wide perspective, while also drilling down into specific individual considerations. The book provides valuable guidance in terms of contractual relationships, cost models and the integration of information technology systems. By analysing current statistics and surveys, looking into factors behind why contracts are awarded and terminated important insights can be acquired. This book contains tools, models, online resources and case studies on the outsourced relationships of companies including Intel KFC and BA to further develop the reader's knowledge which makes this book an informative and essential resource.

Understanding Business David Barnes 2001 Taking a systems perspective, this book enables the student to make sense of business behaviour by demonstrating how interrelated business processes determine the success of an organisation.

Mechanical Engineers' Handbook, Design, Instrumentation, and Controls Myer Kutz 2015-02-02 The engineer's ready reference for mechanical power and heat *Mechanical Engineer's Handbook* provides the most comprehensive coverage of the entire discipline, with a focus on explanation and analysis. Packaged as a modular approach, these books are designed to be used either individually or as a set, providing engineers with a thorough, detailed, ready reference on topics that may fall outside their scope of expertise. Each book provides discussion and examples as opposed to straight data and calculations, giving readers the immediate background they need while pointing them toward more in-depth information as necessary. Volume 4: Energy and Power covers the essentials of fluids, thermodynamics, entropy, and heat, with chapters dedicated to individual applications such as air heating, cryogenic engineering, indoor environmental control, and more. Readers will find detailed guidance toward fuel sources and their technologies, as well as a general overview of the mechanics of combustion. No single engineer can be a specialist in all areas that they are called on to work in the diverse industries and job functions they occupy. This book gives them a resource for finding the information they need, with a focus on topics related to the productions, transmission, and use of mechanical power and heat.

Understand the nature of energy and its proper measurement and analysis Learn how the mechanics of energy apply to furnaces, refrigeration, thermal systems, and more Examine the and pros and cons of petroleum, coal, biofuel, solar, wind, and geothermal power Review the mechanical parts that generate, transmit, and store different types of power, and the applicable guidelines Engineers must frequently refer to data tables, standards, and other list-type references, but this book is different; instead of just providing the answer, it explains why the answer is what it is. Engineers will appreciate this approach, and come to find Volume 4: Energy and Power an invaluable reference.