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# Sustainable Operations Management Design Modelling And

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Sustainable Operations Management  
Operations Management and Data Analytics Modelling  
Innovating by What We Care About.  
Analytics, Innovation, and Excellence-Driven Enterprise Sustainability  
Advances in Strategy and Methodology  
Principles, Promise, and Practice  
Sustainable Business Models  
Governance and Business Models for Sustainable Capitalism  
Managing Business Complexity  
Toward Sustainable Operations of Supply Chain and Logistics Systems  
Design Modelling and Analysis  
Sustainable Production and Logistics  
Building Sustainable Supply Chains  
Proceedings on 25th International Joint Conference on Industrial Engineering and  
Operations Management - IJCIEOM  
A Circular Economy Handbook  
A Concise Introduction  
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Sustainable Operations and Supply Chain Management  
Discovering Strategic Solutions with Agent-Based Modeling and Simulation  
New Developments to Improve the Sustainability of Business Practices  
A Decision-Oriented Introduction to the Creation of Value  
Theory and Case Studies  
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## **NELSON NICOLE**

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*Sustainable Operations Management*

Routledge

Sustainable Operations

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Analysis Special Issue: Sustainable

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Modelling and Analysis Operations

Management and Sustainability New

Research Perspectives Springer

Operations Management and Data

Analytics Modelling Kogan Page

Publishers

All businesses strive for excellence in today's technology-based environment in which customers want solutions at the touch of a button. This highly regarded textbook provides in-depth coverage of the principles of operations and supply chain management and explains how to design, implement, and maintain processes for sustainable competitive advantage. This text offers a unique combination of theory and practice with a strategic, results-driven approach. Now in its fourth edition, *Operations Management for Business Excellence* has been updated to reflect major advances and future trends in supply chain management. A new chapter on advanced supply chain concepts covers novel logistics technology, information systems, customer proximity, sustainability, and the use of multiple sales channels. As a platform for discussion, the exploration of future trends includes self-driving vehicles, automation and robotics, and omnichannel retailing. Features include: A host of international case studies and examples to demonstrate how theory translates to practice, including Airbus,

Hewlett Packard, Puma, and Toyota. A consistent structure to aid learning and retention: Each chapter begins with a detailed set of learning objectives and finishes with a chapter summary, a set of discussion questions and a list of key terms. Fully comprehensive with an emphasis on the practical, this textbook should be core reading for advanced undergraduate and postgraduate students of operations management and supply chain management. It would also appeal to executives who desire an understanding of how to achieve and maintain 'excellence' in business. Online resources include lecture slides, a glossary, test questions, downloadable figures, and a bonus chapter on project management.

*Innovating by What We Care About.*

Springer Science & Business Media

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.

**Analytics, Innovation, and Excellence-Driven Enterprise Sustainability** Routledge

This book gives students a thorough overview of the environmental issues that impact the supply chain and details strategic methods of addressing the political, social, technological, market, and economic concerns that have

caused organizations to reconsider their impact. Readers will learn how to integrate the fields of operations management, procurement and purchasing, logistics, and marketing into a successful green supply chain, looking outward to form sustainable partnerships rather than focusing their efforts within the company. Each chapter describes a function or dimension of green supply chains, supplemented with short vignettes to ground the theory in practice. The authors examine various industries, including electronics, food products, and manufacturing, and draw on case studies from the Americas, Europe, Asia, and Oceania, allowing students to compare and contrast domestic and international practices. Blending industry insights with the latest academic thinking, they also consider hot button topics like global-local relationships, the role of third parties, green multitier supplier management, and blockchain technology management. Conclusive chapter summaries and plenty of visual aids help readers retain the information they need to improve environmental performance within, and beyond their organizations. Green Supply Chain Management is an excellent introduction to the topic for students and practitioners of supply chain management and environmental sustainability.

Advances in Strategy and Methodology Springer

Operations Management and Data Analytics Modelling: Economic Crises Perspective addresses real operation management problems in thrust areas like the healthcare and energy management sectors and Industry 4.0. It discusses recent advances and trends in developing data-driven operation management-based methodologies, big

data analysis, application of computers in industrial engineering, optimization techniques, development of decision support systems for industrial operation, the role of a multiple-criteria decision-making (MCDM) approach in operation management, fuzzy set theory-based operation management modelling and Lean Six Sigma. Features Discusses the importance of data analytics in industrial operations to improve economy Provides step-by-step implementation of operation management models to identify best practices Covers in-depth analysis using data-based operation management tools and techniques Discusses mathematical modelling for novel operation management models to solve industrial problems This book is aimed at graduate students and professionals in the field of industrial and production engineering, mechanical engineering and materials science. Principles, Promise, and Practice MDPI Despite the ongoing impact of the COVID-19 pandemic, the challenge of realizing sustainability across the triple bottom line of social, environmental, and economic development remains an urgent priority. If anything, it is now imperative that we work towards achieving the United Nations Sustainable Development Goals (SDGs). However, the global challenges are significant. Many of the societal challenges represent complex problems that require multifaceted solutions drawing on multidisciplinary approaches. Engineering management involves the management of people and projects related to technological or engineering systems—this includes project management, engineering economy and technology management, as well as the management and leadership of teams. Systems engineering involves the

design, integration and management of complex systems over the full life cycle—this includes requirements capture and integrated system design, as well as modelling and simulation. In addition to the theoretical underpinnings of both disciplines, they also provide a range of tools and techniques that can be used to address technological and organisational complexity. The disciplines of engineering management and systems engineering are therefore ideally suited to help tackle both the challenges and the opportunities associated with realising a sustainable future for all. This book provides new insights on how engineering management and systems engineering can be utilised as part of the journey towards sustainability. The book includes a discussion of a broad range of different approaches to investigate sustainability through utilising quantitative, qualitative and conceptual methodologies. The book will be of interest to researchers and students focused on the field of sustainability as well as practitioners concerned with devising strategies for sustainable development.

Sustainable Business Models John Wiley & Sons

Governance and Business Models for Sustainable Capitalism touches upon many of the central themes of today's debate on business and society. In particular, it brings attention to a recurrent tension between efficiency, innovation, and productivity on the one hand, and fairness, equity, and sustainability on the other. The book argues that we need radical rethinking of business models and economic governance, beyond the classical doctrine, which sees social and ecological responsibility as lying with public-policy regulation of purely profit-

seeking firms. In spite of the popular CSR agenda, business – as we know it today – is both too transient and too limited in its motivation to carry the regulatory burden. We need to adopt a much wider concept of 'partnered governance', where advanced states and pioneering companies work together to raise the social and environmental bar. The book suggests that civil engagements based on moral rather than formal rights, and amplified through the media, may provide a healthy challenge both to autocratic planning and to solely profit-centered commercialization. The book also proposes a triple cycle theory of innovation for sustainability: a novel framing of the efficacy of green and prosocial entrepreneurship as intertwined with political visions and supportive institutions. In addition, the book offers reflections on the ways in which further digital robotization may enable transition to an 'Agora Economy' where productive efficiency is combined with expanded civic freedoms. Aimed primarily at researchers, academics, and students in the fields of political economy, business and society, corporate governance, business ethics, corporate social responsibility, and sustainability, the book will additionally be of value to practitioners, supplying them with information regarding the challenges associated with the shaping of sustainable or 'civilised' market capitalism for a better world.

*Governance and Business Models for Sustainable Capitalism* Springer Science & Business Media

This book presents the conference proceedings of the 25th edition of the International Joint Conference on Industrial Engineering and Operations Management. The conference is

organized by 6 institutions (from different countries and continents) that gather a large number of members in the field of operational management, industrial engineering and engineering management. This edition of the conference had the title: THE NEXT GENERATION OF PRODUCTION AND SERVICE SYSTEMS in order to emphasize unpredictable and very changeable future. This conference is aimed to enhance connection between academia and industry and to gather researchers and practitioners specializing in operation management, industrial engineering, engineering management and other related disciplines from around the world.

Managing Business Complexity Springer Science & Business Media

This book provides a rich overview and takes a closer look at the current state of theory and practice in the field of sustainable business models. The chapters in this book examine and analyze existing and new approaches towards sustainable business models and showcase the implementation of sustainable business through both quantitative and qualitative studies, including several case studies and many practical examples. It approaches these issues from the standpoints of diverse business disciplines to yield new insights and ideas that are relevant from both an academic and professional perspective. In its essence, the book examines how firms' value creation processes can be driven by sustainability and social responsibility and how this impacts business and society. Readers will find a range of sustainable business models that have been employed and are being pioneered in various industries around the globe – which are thoroughly investigated and discussed, and put into

a comprehensive conceptual framework. *Toward Sustainable Operations of Supply Chain and Logistics Systems* Springer

This book presents innovative research on various aspects of sustainability in the field of operations management and illustrates the potential of sustainability thinking and practice to improve operations performance and thereby meet customer needs. Particular attention is devoted to corporate social responsibility and marketing strategy, knowledge management for sustainability, the role of culture in a sustainable built environment, sustainable manufacturing through the application of lean and green concepts, advancing sustainability through ISO standards, and the sustainable supply chain. The present decade is proving to be a time of change in terms of business strategies and operations management. Many of the trends are still subject to uncertainty, but an understanding of the need for, and benefits of, sustainability can give a clear indication of their trajectory. Consumers and markets in general believe that while implementing their business strategies, companies should also try to improve society and the environment and to exercise social responsibility toward their employees. This book provides insights into how this may be achieved, and it is recommended for researchers as well as all practitioners and managers dedicated to enhancing sustainability in operations. *Design Modelling and Analysis* Pearson UK

Closed-Loop Supply Chains (CLSC) offer companies a unique opportunity to improve their profits whilst serving societal responsibility. The management of CLSC differs in a number of ways from managing supply chains in general. The book examines these differences and

how these differences may be dealt with in practice, by offering a concrete framework, introducing the different aspects related to CLSC and their mutual relations, in a systematic logical way as well as cases clustered according to the inputs for a CLSC. The framework and especially the cases from successful companies offer the reader an invaluable help to build and improve CLSC.

*Sustainable Production and Logistics* Springer

A strong business model is the bedrock to business success. But all too often we fail to adapt, clinging to outdated models that are no longer delivering the results we need. The brains behind The Business Model Navigator have discovered that just 55 business models are responsible for 90% of the world's most successful businesses. These 55 models – from the Add-On model used by Ryanair to the Subscription model used by Spotify – provide the blueprints you need to revolutionise your business and drive powerful change. As well as providing a practical framework for adapting and innovating your business model, this book also includes each of the 55 models in a quick-read format that covers: What it is Who invented it and who uses it now When and how to apply it “An excellent toolkit for developing your business model.” Dr Heinz Derenbach, CEO, Bosch Software Innovations

*Building Sustainable Supply Chains* CRC Press

This book reviews the social role of universities in their local urban contexts and describes a number of initiatives of major interest in terms of the impact achieved, the range of stakeholders involved, and the significance of the university campus and teachers as agents of change. It is divided into three



parts, the first of which draws on the international literature to provide theoretical background regarding the role of universities and university campuses as drivers of and magnets for social innovation. The second and third parts each focus on four main themes of interest in the contemporary design setting: urban community gardens, social TV stations, mobile pavilions, and economic sustainability models. After a theoretical overview that also illustrates international best practices, it then focuses on the specific context of Milan, based on the pilot project recently conducted by the Politecnico di Milano, “CampUS - incubation and implementation of social practices”, which won the 25th ADI Compasso d’Oro Award (2018) in the social design category. The book is of interest to academics, students, those working at public institutions, and city policymakers.

**Proceedings on 25th International Joint Conference on Industrial Engineering and Operations Management - IJCIEOM** Edward Elgar Publishing

Taking the business model as point of departure, this open access book explores how companies and organizations can contribute to a more sustainable future by designing innovative models that are both sustainable and profitable. Based upon years of research, it draws together theoretical foundations and existing literature on the topic of sustainable business alongside case studies and practical solutions. After examining the theoretical foundations of sustainable business model innovation, the authors present their own framework – RESTART. Consisting of seven factors, this framework can be the basis for

restarting any business model. The final section outlines a research agenda for sustainable business informed by the perspectives and frameworks put forward in this book.

*A Circular Economy Handbook* Springer  
**WINNER: 2018 Les Plumes des Achats & Supply Chain - The Committee Special Prize** As we learn more about the climate and biodiversity crisis, it is clear that how we make and consume things is a major part of the problem. Extraction and processing of materials, fuels and food makes up about half of global greenhouse gas emissions and over 90% of biodiversity loss and water stress. Many modern businesses deplete resources, destroy ecosystems and dump waste and pollution at every stage - harming human health along the way. Governments, businesses and think-tanks see the circular economy as the way forward. Now in its second edition, *A Circular Economy Handbook* is a guided tour through the concepts and the practicalities. A unique framework systematically explores the range of circular interventions, including product and supply chain design, material choice and supporting business models. How does it really work for business? What circular approaches are emerging in food, fashion, consumer technology, packaging and other sectors? How do these reduce risk, improve resilience and build profitable, future-fit organizations? With over 300 real examples from around the world, this is a must-read for businesses, students and policymakers. This new edition has been extensively updated to include the latest trends, thinking, research and solutions, with a new chapter on packaging and 30 new company snapshots.

*A Concise Introduction* IGI Global  
 Dependability and cost effectiveness are

primarily seen as instruments for conducting international trade in the free market environment. These factors cannot be considered in isolation of each other. This handbook considers all aspects of performability engineering. The book provides a holistic view of the entire life cycle of activities of the product, along with the associated cost of environmental preservation at each stage, while maximizing the performance.

Sustainable Logistics and Supply Chain Management (Revised Edition) MDPI

Sustainable Logistics and Supply Chain Management is the essential guide to the principles and practices of sustainable logistics operations and the responsible management of the entire supply chain. Based on extensive research by experts in the field, this comprehensive book covers the whole scope of sustainable logistics. The book provides carefully reviewed research-led applications and case studies that have been especially developed for this revised edition with particular attention for use in a teaching context. The mini case studies are highly topical, relating the theoretical concepts to practice and what is actually happening 'on the ground'. Examining the subject in an integrated manner, this book examines all the key areas in sustainable logistics and supply chain management, including: sustainable product design and packaging; sustainable purchasing and procurement; cleaner production; environmental impact of freight transport; sustainable warehousing and storage; sustainable supply management; reverse logistics and recycling; supply chain management strategy, and much more. The book provides an excellent insight into the topic that will help managers, students,

and scholars grasp the fundamentals of green supply and logistics management. This revised edition of Sustainable Logistics and Supply Chain Management includes valuable supporting online materials, including PPT presentations, chapter summaries, learning objectives, tips for teaching and in class activities. *Sustainable Operations and Supply Chain Management* CRC Press

This book addresses critical issues in today's logistics operations and supply chain management, with a special focus on sustainability. In dedicated chapters the authors address aspects concerning multimode logistics operations, reverse network configuration, forward and reverse supply chain integration, improvement of the production operations and management of the recovery activities, as well as carbon footprint reduction in transportation. Selected best practices from different countries and industries are presented to aid in the implementation of sustainable policies in private enterprises and at public-sector institutions. The book offers a valuable resource for both academics and practitioners who wish to deepen their expertise in the field of logistics operations and management with regard to sustainability issues. The book examines both qualitative and qualitative aspects of sustainable supply chain and logistics operations.

**Discovering Strategic Solutions with Agent-Based Modeling and Simulation** Springer Nature

This book critically analyzes the role of corporate social responsibility (CSR) in achieving sustainable development in emerging economies. It brings together recent developments, effective frameworks, business models, and strategies adopted by companies and looks at how they contribute to



sustainable business growth. The volume discusses diverse themes such as green marketing for promoting sustainable development; digitization and sustainability concerns; communication strategies for CSR; ethical standards in Indian advertising; microfinance as an instrument for achieving sustainable development; the role of CSR in the Skill India initiative; and CSR activities of Indian listed companies. It also provides solutions to challenges in achieving sustainable development goals at local and global levels. Drawing on in-depth case studies, the book will be an essential read for corporate professionals, students, and researchers of CSR, management studies, development studies, business studies, economics, environmental studies, green marketing, and sociology. It will also be relevant for policy makers, NGOs, public and private sector corporations, and consultants in sustainability reporting, business ethics, and sustainable development.

**New Developments to Improve the Sustainability of Business Practices**  
Springer

This book provides a comprehensive exploration into the identification and development of sustainable business models as well as their implementation, management and evaluation. With ever-increasing pressure on organisations to respond to societal change and improve competition through sustainable business model innovation (SBMI), this book aims to contribute to the knowledge of their design and management. The chapters explore the role of partnerships, the Internet of Things and the circular economy, among other factors, in developing SBM and how SBMI is facilitated through ideation and in entrepreneurial settings. Providing new typologies, patterns and a framework to evaluate the level of sustainability of business models, this book critically reviews existing literature on the topic to examine the potential of SBMI in research and in practice. The contributing authors employ a number of case studies and case examples to illustrate the integration of sustainable business models throughout the value chain, and their influence on wider social, environmental and business activities.

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