

Circular design



Product Innovation And Eco Efficiency

Judith E.M. Klostermann, Arnold Tukker



Product Innovation And Eco Efficiency:

Product Innovation and Eco-Efficiency Judith E.M. Klostermann, Arnold Tukker, 2013-03-09 Prefaced by Björn Stigson President of the World Business Council for Sustainable Development this book is one of the few that treats this topic by putting representatives of industry at centre stage The book systematically addresses the drivers the tools and sector specific elements that play a role in this process The five chapters in Part I are devoted to a general introduction to eco efficiency and the related challenges to industry in its implementation Part II contains 23 case studies almost all written by industrial experts who tell how they deal with the challenge what the motivators are what tools can be used and how they can be implemented and what are the specific elements in sectors like building electronics and packaging These contributions come from multinationals like Unilever Procter Gamble Akzo Nobel Philips and Ciba Geigy as well as small and medium sized enterprises from such sectors as the building and furniture trades

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Environmental Efficiency, Innovation and Economic Performances Anna Montini, Massimiliano Mazzanti, 2010-07-02 This volume brings together microeconomics studies on firms eco and economic performance both in the industrial and service sector by considering a sector based perspective rooted mainly in the exploitation of NAMEA data at regional level and a macroeconomic analysis of the environment income and welfare

Quantified Eco-Efficiency Gjalte Huppes, Masanobu Ishikawa, 2007-06-03 A central asset of eco efficiency analysis is that it does not depend on a specific evaluation of environmental impacts against economic effects Several evaluation methods may be used including those based on willingness to pay panel procedures and public statements on policy goals This volume covers all aspects of eco efficiency analysis and offers a global perspective on the subject

Design for Enhancing Eco-efficiency of Energy-related Products Suphichaya Suppipat, Treechada Chotiratanapinun, Kulthida Teachavorasinskun, Allen H. Hu, 2022-11-17 This brief textbook underpins the concept of eco efficiency in product design and systematically addresses the essence of the integration of simplified life cycle assessment LCA methods and tools into industrial design Fundamental steps of LCA based tools implementation within the higher education context are proposed using energy related products ErP design as a prime case

study All chapters are designed to respond to the common frequently asked questions in LCA based tools implementation during the sustainable product design process The chapters are also enriched with discussions data sources of simplified LCA tools and examples of design assignments that provide constructive learning Some assignments aim at encouraging tool users reflections while others tackle particularly at knowledge exchange The examples can assist the reader to visualize challenges and opportunities to engage learners who are tool users This textbook broadens LCA knowledge for industrial design and environmental engineering students as well as enhance their sustainable product design performance For professional practitioners including industrial designers product engineers entrepreneurs and the like this textbook can be used as a guide at the introductory level for integrating life cycle thinking into product design and development

Eco-Effectiveness of Modular Products and Fleets within the Automotive Industry Chris David

Gabrisch,2023-02-04 The automotive industry is facing the challenge of reducing its environmental impact to comply with stricter fleet emission regulations Still an OEM s contribution to the targets of the Paris Agreement must consider the entire life cycle of a vehicle surpassing the targets of the current legislations which focusses on the use stage only This work presents a concept that identifies the ideal configuration of a modular product system like a vehicle to meet a limited environmental impact at the lowest life cycle costs along the entire life cycle This optimization is based on the ideal combination of modular product components which are selected by an algorithm based on graph theory

Eco-efficiency and Beyond Jan-Dirk Seiler-Hausmann,Christa Liedtke,Ernst Ulrich von Weizsäcker,2017-09-29 Business as usual it is widely accepted will exceed the Earth s carrying capacity in an alarmingly short space of time In simple terms we need to learn to use the world s rapidly depleting resources in a significantly more efficient manner Practical and readily adopted solutions are needed now Eco efficiency or produce more with less is achieved when goods and services satisfy human needs increase the quality of life at competitive prices and when environmental impacts and resource intensity are decreased to a degree that keeps them within the limits of Earth s expected carrying capacity Eco efficiency a term first proposed by the World Business Council for Sustainable Development in 1992 is a management approach that allows businesses to carry out environmental protection measures from a market oriented point of view with the aim of illustrating that ecology and the economy do not need to be a contradiction Indeed eco efficiency has been portrayed as a win win for both business and the environment This book which developed out of two conferences on eco efficiency held in D sseldorf in 1998 and 2001 is edited by Ernst Ulrich von Weizsäcker and his team from the Wuppertal Institute for Climate Environment and Energy one of the world s leading research programmes on resource productivity The aim is not simply to explain the past and present of eco efficiency but to look forward to and encourage a future where the comprehensive take up of the concept by business government and consumers could lead to innovation on a grand scale and the possibility of a giant leap beyond towards overall sustainability There have been considerable achievements to date The Dow Jones Sustainability Index which aims to

list the most sustainable corporations for investors includes companies such as BASF Climatex Henkel and Matsushita Panasonic all represented in this book who are implementing eco efficiency measures A number of political initiatives have also been formed In December 2001 the German government suggested a National Sustainability Strategy to measure Germany's sustainable development While this not yet an accepted political target or even law it shows that politics is moving toward binding targets for increasing efficiency Eco Efficiency and Beyond collects together the leading thinkers on the topic and aims to illustrate not only that the concept should be part of every business strategy but that it is a key trigger for innovation Innovation cuts through paradoxes It is the creation of solutions to conflicting demands Flying in a vacuum gave us rockets and satellites switching electrons through insulators gave us Silicon Valley and the digital age Sustainable development presents a similar field of paradoxical innovation forces i.e. provide affordable products and services for the growing unmet needs of the world population while reducing environmental impacts This book is the definitive collection on eco efficiency and will be required reading for business government NGOs and academicians

Consumer Product Innovation and Sustainable Design Robin Roy, 2015-10-23 Consumer Product Innovation and Sustainable Design follows the innovation and evolution of consumer products from vacuum cleaners to mobile phones from their original inventions to the present day It discusses how environmental concerns and legislation have influenced their design and the profound effects these products have had on society and culture This book also uses the lessons from the successes and failures of examples of these consumer products to draw out practical guidelines for designers engineers marketers and managers on how to become more effective at product development innovation and designing for environmental sustainability

The Effectiveness of Policy Instruments for Energy-Efficiency Improvement in Firms Kornelis Blok, 2004-05-31 How can governments stimulate energy efficiency improvement This book analyzes environmental policy in the Netherlands to present a wealth of empirical results on the successes and failures of governmental initiatives in environmental policy Discussion extends to such topics as free rider effects of subsidies the credibility of voluntary agreements the art of regulation and the fate of research development money

How to Make Product Innovation Processes More Sustainable? A Literature Review Nicole Kaczmar, 2020-03-18 Bachelor Thesis from the year 2013 in the subject Business economics General grade 2.0 LMU Munich Wirtschaftswissenschaften language English abstract This paper addresses the pressing and rapid shift toward greater sustainability in businesses due to the advanced stage of environmental degradation The viability and competitiveness of a business is secured through sustainable product innovation development which has been proven by the latest sustainable products and services The term sustainability is precisely aligned with sustainable product innovation thinking and processes In addressing this issue of product sustainability I provide a concept for fostering sustainable innovation thinking and define certain sustainability criteria linked to each stage of the product innovation process It has been shown that the reconciliation of sustainable criteria with the product innovation process is challenging Limitations

arising from sustainable product innovation development such as greenwashing are discussed and reveal that the concept of sustainability has not been implemented properly in business practice so far. In particular, there is also a lack of scientific studies regarding the holistic approach to sustainable product innovations. Generally, fundamental innovation theories need to be improved by sustainability criteria because keeping up with the sustainability trend will be one of the most challenging and important tasks in the future for businesses to maintain their competitiveness. Environmental Innovation and Firm Performance Javier Amores Salvadó, Gregorio Martín de Castro, Miriam Delgado Verde, José Emilio Navas López, 2012-10-29

The links between a firm's competitiveness and the natural environment have been studied since the mid 90s. This volume explores both theoretically and empirically the relationships between environmental product innovation, green image, and firm performance. **Climate Change Research at Universities** Walter Leal Filho, 2017-06-02. This unique book provides a multidisciplinary review of current climate change research projects at universities around the globe, offering perspectives from all of the natural and social sciences. Numerous universities worldwide pursue state-of-the-art research on climate change, focussing on mitigation of its effects as well as human adaptation to it. However, the 2015 Paris 21st Conference of the Parties of the United Nations Framework Convention on Climate Change (UNFCCC COP 21) demonstrated that there is still much room for improvement in the role played by universities in international negotiations and decision making on climate change. To date, few scientific meetings have provided multidisciplinary perspectives on climate change in which researchers across the natural and social sciences could come together to exchange research findings and discuss methods relating to climate change mitigation and adaptation studies. As a result, the published literature has also lacked a broad perspective. This book fills that gap and is of interest to all researchers and policy makers concerned with global climate change, regardless of their area of expertise. *Greening The Supply Chain: Responsive and Responsible Approaches* (UUM Press) Mohd Rizal Razalli, 2022-04-03. All organizations need to have an efficient and effective supply chain. The interconnected, interrelated, and interlinked networks in today's global business have pushed organizations to put greater emphasis on the supply chain to gain higher positive impact on their business bottom line. On the other hand, supply chain may also result in negative impact to the world due to the irresponsible business organizations. Despite the financial gain of the business, the environment and the society have to pay for the price of irresponsible actions of these organizations. As a result, the concept of Green Supply Chain has emerged to be as a solution to various societal and environmental problems. The aim is to achieve more sustainable development in doing a business. Sustainable Development Goal (SDG) is the key, and climate change is the central issue to address today. This book discusses the importance of green supply chain to organizations and offers various suggestions to be green to the environment and society. The content is divided into 3 main parts: 1. Overview of the green supply chain management, 2. Green Strategy and Operations, and 3. Green Cycle. It is hoped that the book be useful to all, particularly to organizations as well as researchers in practicing and researching on a supply chain agenda. Ultimate aim is for us to be

responsive and responsible in providing product and services to our customer society and environment **Innovation and the Environment** OECD,2000-12-11 A workshop proceedings address questions that lead to a better understanding of the interaction between innovation and the environment and explored elements of best practice policies that can stimulate innovation for the environment and shift our development path towards sustainability Environmental Leadership Deborah Rigling Gallagher,2012-09-19 This reference handbook tackles issues relevant to leadership in the realm of the environment and sustainability **Integral Innovation** Odeh Rashed Al-Jayyousi,2017-04-21 Technology plays a critical role in transforming societies and economies through enhancing efficiency connectivity and access to resources and services The challenge remains how to harness technologies to achieve sustainable development without causing harm to human and natural capitals Professor Odeh Rashed Al Jayyousi argues that science technology and innovation STI are underpinned by social choices and hence a transition to a sustainable green economy is defined by individuals and institutions decisions on how to use and apply these STI developments It is therefore important to examine closely the ways in which social institutions and processes in the integral worlds the different perspectives of reality shape the priorities of technologies and the conditions under which their potential benefits can be reaped He states that in order for technological innovation to provide a guarantee of sustainable economic development it is necessary that a transfer of technology to developing countries becomes a basic principle of national development policies and that they in turn are open to adopting an explicit long term application of technological innovation Integral Innovation New Worldviews presents a conceptual framework for the evolution of technology and innovation from a historical and cultural perspective It provides an analysis of the role of innovation and technology in sustainable development and introduces a number of international case studies which shed light on the social learning processes for knowledge co creation and innovation culture It is essential reading for those interested in innovation and technology management A Systems Approach to the Environmental Analysis of Pollution Minimization Sven E. Jorgensen,2020-01-29 The environmental analysis of pollution problems always involves the use of mass and energy balances to quantify the extent of pollution and its sources This same form of analysis can be applied to ecosystems production systems a whole country or a region A Systems Approach to the Environmental Analysis of Pollution Minimization identifies and describes the common factors shared by these systems The book is organized in twelve chapters and progresses from general concepts to specific assessment methods Chapter one is a general introduction to environmental management principles Chapter two discusses conservation principles and their applications to environmental health Chapters three and four explore ecosystem health properties and analysis Chapters five through eleven present different methods of analysis including Green Accounting Clean Technology Life Cycle Analysis and Risk Assessment Editor Sven Jorgensen closes the book with a sweeping summary Jorgensen is a internationally published authority on the use and analysis of ecosystem models His new book is a comprehensive guide for both students and professionals A Systems

Approach to the Environmental Analysis of Pollution Minimization is an invaluable contribution Features Inclusive Green Growth Calvin Atewamba,Dorothe Yong Ngondjeb,2020-05-28 Fostering inclusive green growth in Africa means addressing existing and emerging development challenges while efficiently managing Africa s natural capital and building resilience to environmental social and economic risks Although this new paradigm for development has the potential to create tremendous business opportunities there are also challenges This book provides empirical evidence on the conditions for the emergence of green businesses in Africa It includes 13 case studies which identify the determinants of small and medium size enterprises engagement in inclusive and sustainable growth in rural Africa and the factors that hinder eco innovation in business and entrepreneurial activities Furthermore it discusses appropriate regulations and policies to stimulate the development of green business in Africa Offering insights into the relationship between eco innovation labor productivity and business competitiveness in rural Africa this book appeals to scholars policy makers and practitioners interested in a green economy for Africa *Sustainability* Scott T. Young,Kanwalroop Kathy Dhanda,2013 Sustainability offers a comprehensive treatment of the relationship between business and sustainability **Design for Environmental Sustainability** Carlo Arnaldo Vezzoli,Ezio Manzini,2008-06-17 This volume is a technical and operative contribution to the United Nations Decade on Education for Sustainable Development 2005 2014 aiding the development of a new generation of designers responsible and able in the task of designing environmentally sustainable products The book provides a comprehensive framework and a practical tool to support the design process This is an important text for those interested in the product development processes

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