

The circular economy model:
less raw material, less waste, fewer emissions



Circular Economy 2025 Edition

Artde Kin-Tak Lam, Stephen Prior, Siu-Tsen Shen, Sheng-Joue Young, Liang-Wen Ji

Circular Economy 2025 Edition:

Advanced Green Technology for Environmental Sustainability and Circular Economy Maulin P. Shah, Alok Prasad Das, 2024-10-14 This book elucidates the growing application of greener technology with a circular economic approach and examines the connection among environment economy and ecology for an emerging and supportable human society It focuses on numerous features of environmental sustainability and more responsibly labels the technologies and methods essential to overcome growing environmental challenges including biotechnological methods cutting edge research applications and procedures Features Proposes the latest advances in waste treatment pollution reduction and circular economy development based on green technology Considers the relationship between green technological progress and various forms of circular economy Describes resource recycling and recovery Covers advanced technology in bioremediation Includes reports and case studies highlighting the how to on waste to energy generation This book is aimed at professionals and graduate students in environmental engineering project management bioremediation sustainable development and waste management

Catalysis, Green Chemistry and Sustainable Energy Angelo Basile, Gabriele Centi, Marcello De Falco, Gaetano Iaquaniello, 2019-11-22 Catalysis Green Chemistry and Sustainable Energy New Technologies for Novel Business Opportunities offers new possibilities for businesses who want to address the current global transition period to adopt low carbon and sustainable energy production This comprehensive source provides an integrated view of new possibilities within catalysis and green chemistry in an economic context showing how these potential new technologies may become useful to business Fundamentals and specific examples are included to guide the transformation of idea to innovation and business Offering an overview of the new possibilities for creating business in catalysis energy and green chemistry this book is a beneficial tool for students researchers and academics in chemical and biochemical engineering Discusses new developments in catalysis energy and green chemistry from the perspective of converting ideas to innovation and business Presents case histories preparation of business plans patent protection and IP rights creation of start ups research funds and successful written proposals Offers an interdisciplinary approach combining science and business

The Circular Economy Mika Sillanpää, Chaker Ncibi, 2019-08-01 The Circular Economy Case Studies about the Transition from the Linear Economy explores examples of the circular economy in action Unlike other books that provide narrow perceptions of wide ranging and highly interconnected paradigms such as supply chains recycling businesses models and waste management this book provides a comprehensive overview of the circular economy from various perspectives Its unique insights into the approaches methods and tools that enable people to make the transformation to a circular economy show how recent research trends and attitudes have moved beyond the call to arms approach to a level of maturity that requires sound scientific thinking

Stakeholder Engagement in a Sustainable Circular Economy Johanna Kujala, Anna Heikkinen, Annika Blomberg, 2023-06-26 The purpose of this open access edited collection is to discuss the role and

importance of stakeholder engagement in a sustainable circular economy from multiple theoretical and practical perspectives

Developing and maintaining a circular economy is an essential step to a more environmentally friendly and socially inclusive society. In addition to redesigning products and business models to minimise waste and increase the reuse of materials, a transition towards a sustainable circular economy requires collaboration and co-operation between various stakeholders from all parts of society. An international team of contributors explore how stakeholder engagement can foster and support sustainable change, assessing current literature and laying out guidance for future study. The collection is of interest to academics and students of sustainability management and sustainable business models, stakeholder theory and practice, and the circular economy.

Circular Economy Opportunities and Pathways for Manufacturers Henrik Hvid Jensen, 2025-03-11

In today's rapidly evolving manufacturing landscape, the future competitiveness for manufacturers hinges on three interlinked paradigms:

1. **Circular Economy Models for Zero Waste Product Lifecycles**: The shift from traditional linear models to circular ones is increasingly crucial. Circular strategies extend product lifecycles, optimize resource use, and open new revenue streams, ultimately bolstering resilience, competitiveness, and customer relationships.
2. **Sustainable Manufacturing Through Decarbonization**: As global awareness around sustainability grows, the push toward decarbonized manufacturing processes is no longer optional. Such an approach minimizes environmental impact while aligning with international sustainability goals.
3. **Digital Enablement for Paradigm Transformation**: Digitization serves as the lynchpin in realizing cleaner manufacturing and circular economy objectives. Tools like the Digital Product Passport (DPP) empower manufacturers to achieve transparency, encourage collaboration, and create unmatched business value, expediting the transition to sustainable and circular manufacturing.

One of the most pressing challenges for manufacturers today is achieving the transition to cleaner and circular business models in a financially viable way. This book delves deeply into the business opportunities circularity presents and the pivotal role of digital solutions in enabling a smooth and cost-effective transition. It emphasizes how digitization can address economic feasibility concerns while driving operational efficiency and sustainability. By breaking down these critical elements, the book provides actionable insights and frameworks serving as a practical guide for manufacturers striving to align economic priorities with environmental and operational demands, ensuring long-term competitiveness and resilience.

Visit <https://circularpathwaysbook.com> to continue your journey.

Sustainable Finance and the Global Health Crisis Pasquale Marcello Falcone, Edgardo Sica, 2023-08-01

The speed with which the various economies recover from the Covid-19 pandemic will significantly determine the economic pressure placed on the environment in the medium to long term. Furthermore, the pandemic has highlighted the strong interrelations between natural and societal systems, with societal resilience depending on a resilient environmental support system. In this context, the book argues that the pandemic represents a wake-up call for financial systems to be better prepared for the climate crisis and social risk, and has provided a stimulus to scale down the reliance of the global economy on fossil fuels. The first part of the book provides a

deep and creative discussion between leading international researchers and experts on the policy options and financial instruments which can help to catalyze the green finance transition in the post Covid 19 era The contributions show that sustainable finance is emerging as a powerful tool to advance the transition towards a more environmentally and socially sustainable economic model Instruments such as sovereign green bonds green securities and other sustainability related securities can play a significant role in the post Covid 19 world to fund economic stimulus and to lead the way to new and more sustainable future The second part of the book supports the debate by highlighting a number of selected case studies on financing transitions in different regional contexts including Africa Asia Europe and Latin America The book marks a significant contribution to the literature on environmental economics and finance climate change and sustainability transitions Chapter 12 of this book is freely available as a downloadable Open Access PDF at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license

Cyclic Economy
Michele Aresta,Angela Dibenedetto,Franck Dumeignil,2024-10-07 The first volume of the series Carbon Cyclic Economy presents various policies of recycling carbon in some major countries and the EU Advances and best practices are discussed for using alternative carbon such as recycled plastics waste biomass and CO₂ each with its characteristic limits for applications in the chemical industry and avio fuels

Proceedings of the 6th European Lean Educator Conference
Monica Rossi,Matteo Rossini,Sergio Terzi,2020-05-04 This book gathers selected peer reviewed papers presented at the 6th European Lean Educator Conference ELEEC held in Milan Italy on November 11 13 2019 The conference topics include the following lean trainings in university and industry collaborations lean product and process development lean and people empowerment emerging contexts for lean applications measuring lean performance lean green and circular continuous improvement initiatives lean thinking in practice organizational culture in lean journeys and innovative training approaches to teaching lean management The contributions explore the latest academic and industrial findings on and advances in lean education and identify innovative methods that allow lean thinking benefits to be achieved in practice As such the book presents the outcomes of a fruitful exchange between academia and industry designed to help train the next generation of lean educators

Innovation in Design, Communication and Engineering Artde Kin-Tak Lam,Stephen Prior,Siu-Tsen Shen,Sheng-Joue Young,Liang-Wen Ji,2020-08-04 This volume represents the proceedings of the 8th Asian Conference on Innovation Communication and Engineering ACICE 2019 which was held in P R China October 25 30 2019 The conference aimed to provide an integrated communication platform for researchers in a wide range of fields including information technology communication science applied mathematics computer science advanced material science and engineering The conference and resulting proceedings aim to enhance interdisciplinary collaborations between science and engineering technologists in academia and industry within this unique international network

Recycling Institutions Letícia Antunes Nogueira,Håkan T. Sandersen,Brigt Dale,2025-08-18 This open access book investigates the phenomenon of recycling

institutions in urban mining using social sciences lenses on the empirical context of waste from electrical and electronic equipment WEEE landfills as a potential resource pool and the recycling of building materials in Norway There is a dual meaning to the term recycling institutions and this book has the ambition to explore both The first refers to institutions that recycle i e the institutional infrastructure that facilitates material recycling From household attitudes and practices to the laws and regulations that govern waste management there is an institutional apparatus that recycling relies upon which gains increased importance as the sustainability agenda develops The second meaning refers to the recycling of institutions in the sense that the institutional setup itself is being repurposed and transformed This more metaphorical meaning points to the way in which emerging societal ambitions such as the circular economy stretch and bend existing institutions by imposing new functions upon them Institutions are conservative and backward looking and tend to resist rapid and radical changes that are incompatible with the ideas and practices they are built on So whereas the first is about designing new institutions for circularity the second is about modifying and recycling existing institutions to meet the challenges circularity may entail The central premise is that relevant supportive and well functioning institutional environments are crucial in the transition to a greener society that encourages industries businesses households and citizens to act in more sustainable ways and it identifies both possibilities and obstacles in the emergence of institutions that support urban mining This book integrates a range of disciplines in the social sciences to investigate the phenomenon of recycling institutions By examining the case of urban mining in Norway with a special focus on how existing structures developed for waste management can be repurposed to facilitate this new function the book provides insight into a scenario where material sourcing from anthropogenic sources is dissociated from natural resource scarcity and is instead linked to political ambitions and an attempt to stay at the forefront of sustainability transitions

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