

ECO-EFFICIENCY IN INDUSTRY AND SCIENCE

Handbook on Life Cycle Assessment

Operational Guide to the ISO Standards

Jeroen B. Guinée (Ed.)



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Handbook On Life Cycle Assessment Operational Guide To The Iso Standards

**Stephanie Clark, Stephanie
Jung, Buddhi Lamsal**



Handbook On Life Cycle Assessment Operational Guide To The Iso Standards:

Handbook on Life Cycle Assessment J. B. Guinée, 2002-05-31 Between 1992 and 2002 environmental life cycle assessment methodology has progressed enormously and the ISO has published a series of Standards on LCA These developments have now been incorporated into this Handbook on LCA Handbook on Life Cycle Assessment Jeroen B. Guinée, 2002-05-31 The general aim of this Handbook on LCA is to provide a stepwise cookbook with operational guidelines for conducting an LCA study step by step justified by a scientific background document based on the ISO Standards for LCA The different ISO elements and requirements are made operational to the best available practice for each step This book will appeal to persons from a wide range of scientific disciplines working in industry in government as consultants or at university who are interested in learning more about LCA and in performing LCA studies It will be of especial interest to students and researchers in the field of LCA industrial ecology and those interested in environmental sciences in general CML is strongly involved in the development of a standard methodology to determine environmental impacts of products i e LCA This is done within international fora such as the Society for Environmental Toxicology and Chemistry SETAC the International Organization for Standardization ISO and the United Nations Environmental Programme UNEP Life Cycle Assessment Ralph Horne, Tim Grant, Karli Verghese, 2009 Life Cycle Assessment LCA has developed in Australia over the past 16 years in a fragmented way with many different people and organizations contributing to the area at different times and largely through informal or unpublished work This publication will legitimize and document LCA research and methodology development to act as a record of what has happened and a basis for future development and application of the tool The Centre for Design at RMIT has been a leading research center in Australia through its work on data collection methodology development and contribution to knowledge through undertaking LCA studies for leading companies and government departments ranging from products packaging buildings water management and waste management This work in addition to key work undertaken by other researchers will be presented The book will become a bridge between LCA implementation and life cycle management LCM and provide discussion on how LCA development will be in the future and how it integrates with available software tools *Kirk-Othmer Chemical Technology and the Environment, 2 Volume Set* Wiley, 2007-05-21 The two volume reference work Chemical Technology and the Environment provides readers with knowledge on contemporary issues in environmental pollution prevention and control as well as regulatory health and safety issues as related to chemical technology It introduces and expands the knowledge on emerging green materials and processes and greener energy technology as well as more general concepts and methodology including sustainable development and chemistry and green chemistry Based on Wiley s renowned Kirk Othmer Encyclopedia of Chemical Technology this compact reference features the same breadth and quality of coverage and clarity of presentation found in the original **Life Cycle Assessment** Michael Z. Hauschild, Ralph K. Rosenbaum, Stig Irving Olsen, 2017-09-01 This book is a uniquely pedagogical

while still comprehensive state of the art description of LCA methodology and its broad range of applications The five parts of the book conveniently provide I the history and context of Life Cycle Assessment LCA with its central role as quantitative and scientifically based tool supporting society s transitioning towards a sustainable economy II all there is to know about LCA methodology illustrated by a red thread example which evolves as the reader advances III a wealth of information on a broad range of LCA applications with dedicated chapters on policy development prospective LCA life cycle management waste energy construction and building nanotechnology agrifood transport and LCA related concepts such as footprinting ecolabelling design for environment and cradle to cradle IV A cookbook giving the reader recipes for all the concrete actions needed to perform an LCA V An appendix with an LCA report template a full example LCA report serving as inspiration for students who write their first LCA report and a more detailed overview of existing LCIA methods and their similarities and differences

Sustainable Membrane Technology for Water and Wastewater Treatment Alberto Figoli, Alessandra Criscuoli, 2017-09-19 This book analyses the sustainability of membrane operations applied on an industrial scale as well as that of those under investigation on lab pilot scales covering also the preparation of both polymeric and inorganic membranes It presents reverse osmosis in desalination membrane bioreactors for municipal wastewater treatment and pressure driven industrial wastewater treatment in agrofood and textile fields as examples of industrial membrane operations Regarding the membrane processes still on a lab pilot scale the analysis includes membrane operations for the recovery of valuable products from wastewater streams for the removal of toxic compounds from water wastewater and for zero liquid discharge approaches in desalination The book offers a useful guide for scientists and engineers working in various fields including membrane technology separation desalination and wastewater treatment Alberto Figoli and Alessandra Criscuoli are both Senior Researchers at the Institute on Membrane Technology ITM CNR Italy

Environmental Data Analysis Zhihua Zhang, 2023-02-20 With the dramatic development of air space ground sea environmental monitoring networks and large scale high resolution Earth simulators Environmental science is facing opportunities and challenges of big data Environmental Data Analysis focuses on state of the art models and methods for big environmental data and demonstrates their applications through various case studies in the real world It covers the comprehensive range of topics in data analysis in space time and spectral domains including linear and nonlinear environmental systems feature extraction models data envelopment analysis risk assessments and life cycle assessments The 2nd Edition adds emerging network models including neural networks complex networks downscaling analysis and streaming data on network This book is a concise and self contained work with enormous amount of information It is a must read for environmental scientists who struggle to conduct big data mining and data scientists who try to find the way into environmental science

Sustainable Supply Chains Yann Bouchery, Charles J. Corbett, Jan C. Fransoo, Tarkan Tan, 2016-09-01 This book is primarily intended to serve as a research based textbook on sustainable supply chains for graduate programs in Business Management Industrial Engineering and

Industrial Ecology but it should also be of interest for researchers in the broader sustainable supply chain space whether from the operations management and industrial engineering side or more from the industrial ecology and life cycle assessment side Finding efficient solutions towards a more sustainable supply chain is increasingly important for managers but clearly this raise difficult questions often without clear answers This book aims to provide insights into these kinds of questions for students and practitioners based on the latest academic research

Life Cycle Assessment (LCA) of Environmental and Energy Systems Fabrizio Passarini, Luca Ciacci, 2021-04-01 The transition towards renewable energy sources and green technologies for energy generation and storage is expected to mitigate the climate emergency in the coming years However in many cases this progress has been hampered by our dependency on critical materials or other resources that are often processed at high environmental burdens Yet many studies have shown that environmental and energy issues are strictly interconnected and require a comprehensive understanding of resource management strategies and their implications Life cycle assessment LCA is among the most inclusive analytical techniques to analyze sustainability benefits and trade offs within complex systems and in this Special Issue it is applied to assess the mutual influences of environmental and energy dimensions The selection of original articles reviews and case studies addressed covers some of the main driving applications for energy requirements and greenhouse gas emissions including power generation bioenergy biorefinery building and transportation An insightful perspective on the current topics and technologies and emerging research needs is provided Alone or in combination with integrative methodologies LCA can be of pivotal importance and constitute the scientific foundation on which a full system understanding can be reached

Concentrating Solar Power Technology Keith Lovegrove, Wes Stein, 2020-11-26 This second edition of *Concentrating Solar Power Technology* edited by Keith Lovegrove and Wes Stein presents a fully updated comprehensive review of the latest technologies and knowledge from the fundamental science to systems design development and applications Part one introduces the fundamental principles of CSP systems including site selection and feasibility analysis alongside socio economic and environmental assessments Part two focuses on technologies including linear Fresnel reflector technology parabolic trough central tower and parabolic dish CSP systems and concentrating photovoltaic systems Thermal energy storage hybridization with fossil fuel power plants and the long term market potential of CSP technology are also explored Part three goes on to discuss optimization improvements and applications such as absorber materials for solar thermal receivers design optimization through integrated techno economic modelling and heliostat size optimization With its distinguished editors and international team of expert contributors *Concentrating Solar Power Technology Second Edition* is an essential guide for all those involved or interested in the design production development optimization and application of CSP technology including renewable energy engineers and consultants environmental governmental departments solar thermal equipment manufacturers researchers and academics Provides a comprehensive review of concentrating solar power CSP technology from the fundamental science to

systems design development and applications Reviews fundamental principles of CSP systems including site selection and feasibility analysis and socio economic and environmental assessments Includes an overview of the key technologies of parabolic trough central tower linear Fresnel reflector and parabolic dish CSP systems and concentrating photovoltaic systems

Environmental Management: Issues and Concerns in Developing Countries Pradip K. Sikdar, 2021-03-17 This book deals with issues and concerns for the human environment in the developing countries incorporating natural processes and systems pollution removal technology energy conservation environmental impact assessment process economics culture political structure and societal equity from a management point of view Solutions to the emerging problems of the environment need a paradigmatic shift in approach from a process based model to a socio political economic model Hence environmental management should involve equality and control over use of the finite natural resources and the balance between Earth's biocapacity and humanity's ecological footprint Changes such as green technologies human population stabilization and adoption of ecologically harmonious lifestyles are absolutely essential and will require redesigning of political institutions policies and revisiting forgotten skills of sustainable practices of environmental management These challenges should centre on environment governance using the concepts of common property equity and security This book is relevant for academics professionals administrators and policy makers who are concerned with various aspects of environment management and governance

Energy and Exergy for Sustainable and Clean Environment, Volume 1 V. Edwin Geo, Fethi Aloui, 2022-07-16 This multi disciplinary book presents the most recent advances in exergy energy and environmental issues Volume 1 focuses on fundamentals in the field and covers current problems future needs and prospects in the area of energy and environment from researchers worldwide Based on some selected lectures from the Eleventh International Exergy Energy and Environmental Symposium IEEEES 11 and complemented by further invited contributions this comprehensive set of contributions promote the exchange of new ideas and techniques in energy conversion and conservation in order to exchange best practices in energetic efficiency Included are fundamental and historical coverage of the green transportation and sustainable mobility sectors especially regarding the development of sustainable technologies for thermal comforts and green transportation vehicles Furthermore contributions on renewable and sustainable energy sources strategies for energy production and the carbon free society constitute an important part of this book

Eco-Efficient Concrete Fernando Pacheco-Torgal, S Jalali, Joao Labrincha, V M John, 2013-02-04 Eco efficient concrete is a comprehensive guide to the characteristics and environmental performance of key concrete types Part one discusses the eco efficiency and life cycle assessment of Portland cement concrete before part two goes on to consider concrete with supplementary cementitious materials SCMs Concrete with non reactive wastes is the focus of part three including municipal solid waste incinerator MSWI concrete and concrete with polymeric construction and demolition wastes CDW An eco efficient approach to concrete carbonation is also reviewed followed by an investigation in part four of future

alternative binders and the use of nano and biotech in concrete production With its distinguished editors and international team of expert contributors *Eco efficient concrete* is a technical guide for all professionals researchers and academics currently or potentially involved in the design manufacture and use of eco efficient concrete The first part of the book examines the eco efficiency and life cycle assessment of Portland cement concrete Chapters in the second part of the book consider concrete with supplementary cementitious materials including properties and performance Reviews the eco efficient approach to concrete carbonation

Product Design for the Environment Fabio Giudice, Guido La Rosa, Antonino Risitano, 2006-01-13 In recent years the increased awareness of environmental issues has led to the development of new approaches to product design known as Design for Environment and Life Cycle Design Although still considered emerging and in some cases radical their principles will become by necessity the wave of the future in design A thorough exploration of t

Life Cycle Approaches to Sustainable Regional Development Stefania Massari, Guido Sonnemann, Fritz Balkau, 2016-12-08 *Life Cycle Approaches to Sustainable Regional Development* explains the ways life cycle methodologies and tools can be used to strengthen regional socio economic planning and development in a more sustainable manner The book advocates the adoption of systematic and long term criteria for development decision making taking into account the full life cycle of materials and projects It describes life cycle practices from both a scientific and a practitioner point of view highlighting examples and case studies at regional level The applications are relevant to key economic sectors as well as for internal planning and administrative procedures It concludes with a synthesis chapter that distills the key messages from the authors into practical guidance points on how best to use such approaches to enhance sustainability in regional development The book is essential reading for regional and urban planners who are integrating life cycle thinking into their policy regimes as well as for researchers working to further evolve life cycle methodologies

Biodiesel Meisam Tabatabaei, Mortaza Aghbashlo, 2018-11-02 This book presents in depth information on the state of the art of global biodiesel production and investigates its impact on climate change Subsequently it comprehensively discusses biodiesel production in terms of production systems reactor technologies as well as biodiesel purification and upgrading technologies Moreover the book reviews essential parameters in biodiesel production systems as well as major principles of operation process control and trouble shooting in these systems Conventional and emerging applications of biodiesel by products with a view to further economize biodiesel production are also scrutinized Separate chapters are dedicated to economic risk analysis and critical comparison of biodiesel production systems as well as techno economical aspects of biodiesel plants The book also thoroughly investigates the important aspects of biodiesel production and combustion by taking advantage of advanced sustainability analysis tools including life cycle assessment LCA and exergy techniques In closing the application of Omics technologies in biodiesel production is presented and discussed This book is relevant to anyone with an interest in renewable more sustainable fuel and energy solutions

ECODESIGN Implementation Wolfgang Wimmer, Rainer Züst, Kun Mo

LEE,2012-12-06 Stakeholders such as environmental directives and customer demands for reducing environmental impacts of a product require innovative and environmentally improved products Therefore a systematic approach and effective methods and tools are needed in the early phase of product development The basic elements for optimized process management in the design department are described in this book The book provides twelve easy to follow steps for implementing ECODESIGN in a company It gives clear advice how to integrate environmental considerations into product design and development and combines ECODESIGN with Life Cycle Assessment and Environmental Communication Chapters on Product modeling Life Cycle Assessment ECODESIGN tasks Product Improvement and Environmental Communication use the previously developed ECODESIGN PILOT www.ecodesign.at/pilot and show its application to a real product example The book comes with two web tools one is the ECODESIGN PILOT used to find measures to environmentally improve a product within a short time The other is the ECODESIGN PILOT's Assistant www.ecodesign.at/assist an expert system which helps to find the right improvement strategy for a product Audience This book will be of interest to environmental and sustainability managers engineers in research and product development to designers environmental experts and consultants as well as to students working in this field

Modeling of a logistics network for wood flows from by-products and cascade utilization Mohammad Sadegh Taskhiri,2016-05-27 Waste Wood and wood by products have the potential to become attractive alternative sources of raw materials Their efficient use is important due to the rising demand and limited supply of forest wood Cascade utilization is gaining interest as a strategy to bridge the gap between rising wood demand and fresh wood availability However the economic and environmental impacts of a cascading system for wood based products are not fully known In this work an investigation is conducted to determine the consequences of cascade utilization for the economic and environmental performance of logistics networks for wood flows Two case studies in Lower Saxony consider five wood products including medium density fiber MDF oriented strand board OSB particleboard coated paper and wood pellets In the first case study an approach for decision support is developed that consists of a mixed integer linear programming MILP model In the first case study the MILP model is used for minimizing the costs of the logistics network for three scenarios Then the UMBERTO software is applied to determine the quantity of CO₂e of the minimized logistics network In the second case study the MILP model is enhanced using two objective functions as cost and global warming potential GWP are considered simultaneously In this case study it is observed that environmental parameters such as CO₂ emissions can also be implemented in the MILP The utilization of a multi objective optimization model brings new perspectives the trade off between two contradictory objective functions for instance in comparison to the first case study in which CO₂ is calculated as an off line step after logistics costs are minimized Altholz und Holz Nebenprodukte besitzen das Potenzial attraktive alternative Rohstoffquellen zu werden Ihre effiziente Nutzung ist von hoher Relevanz da die Nachfrage nach Holz steigt und die Versorgung mit Holz aus Wäldern begrenzt ist Um die Lücke zwischen der wachsenden Holznachfrage und Verfügbarkeit

zu berbr cken ist die Kaskadennutzung eine Strategie welche zunehmendes Interesse erf hrt Allerdings sind die wirtschaftlichen und kologischen Auswirkungen eines Kaskadensystems f r Holzprodukte nicht vollst ndig bekannt In dieser Arbeit wird eine Untersuchung durchgef hrt um die Folgen der Kaskadennutzung auf die Wirtschafts und Umweltleistung von Logistiknetzwerken f r Holzstr me zu bestimmen Im Rahmen von zwei Fallstudien in Niedersachsen werden f nf Holzprodukte einschlie lich mitteldichten Fasern MDF OSB Platten OSB Spanplatten beschichtetem Papier und Holz Pellets betrachtet In der ersten Fallstudie wird ein Ansatz zur Entscheidungsunterst tzung entwickelt der aus einem Mixed Integer Linear Programming MILP Modell besteht Das MILP Modell wird zuerst in drei verschiedenen Szenarien zur Minimierung der Logistikkosten angewendet Mithilfe der UMBERTO Software wird anschlie end die Menge von CO₂e bestimmt In der zweiten Fallstudie wird das Modell f r zwei Zielfunktionen weiterentwickelt und eingesetzt bei denen die Kosten und das Treibhausgaspotenzial gleichzeitig betrachtet werden Diese Fallstudie zeigt dass auch Umweltparameter wie CO₂ Emissionen mit MILP umgesetzt werden k nnen Die Verwendung eines Mehrzieloptimierungsmodells erm glicht die Betrachtung neuer Perspektiven zum Beispiel den Trade off zwischen zwei widerspr chlichen Zielfunktionen im Vergleich zur ersten Fallstudie in welcher CO₂ Emissionen in einem Offline Schritt nach der Minimierung der Logistikkosten minimiert werden

Food Processing Stephanie Clark, Stephanie Jung, Buddhi Lamsal, 2014-06-03 FOOD PROCESSING Food Processing Principles and Applications Second Edition is the fully revised new edition of this best selling food technology title Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens environmental concerns shelf life quality and safety as well as the dietary needs and demands of humans In addition to covering food processing principles that have long been essential to food quality and safety this edition of Food Processing Principles and Applications unlike the former edition covers microbial enzyme inactivation kinetics alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry The book is divided into two sections the first focusing on principles of food processing and handling and the second on processing technologies and applications As a hands on guide to the essential processing principles and their applications covering the theoretical and applied aspects of food processing in one accessible volume this book is a valuable tool for food industry professionals across all manufacturing sectors and serves as a relevant primary or supplemental text for students of food science

Sustainability and Life Cycle Assessment in Industrial Biotechnology Magnus Fr hling, Michael Hiete, 2020-06-16 This book reviews the assessment of industrial biotechnology products and processes from a sustainable perspective Industrial Biotechnology is a comparably young field which comes along with high expectations with regard to sustainability issues These stem from the promise of reducing greenhouse gas emissions and replacing fossil resources in the near or later future and using green technology i e more environmentally friendly technologies The intended economic ecological and social benefits however need to be proven resulting in a variety of

challenges both from a methodological and application point of view In this book specific assessment and application topics of industrial biotechnology are addressed highlighting challenges and solutions for both developers and users of assessment methods In twelve chapters experts in their particular fields define the scope characterize industrial biotechnology and show in their contributions the state of the art challenges and prospects of assessing industrial biotechnology products and processes The chapter Societal and Ethical Aspects of Industrial Biotechnology of this book is available open access under a CC BY 4.0 license at link.springer.com

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