

LIFE CYCLE ASSESSMENT HANDBOOK

**A Guide for Environmentally
Sustainable Products**

Mary Ann Curran, Editor

Life Cycle Assessment Handbook A Guide For Environmentally Sustainable Products

Brian D. Fath



Life Cycle Assessment Handbook A Guide For Environmentally Sustainable Products:

Life Cycle Assessment Handbook Mary Ann Curran, 2012-11-07 The first book of its kind the Life Cycle Assessment Handbook A Guide for Environmentally Sustainable Products will become an invaluable resource for environmentally progressive manufacturers and suppliers product and process designers executives and managers and government officials who want to learn about this essential component of environmental sustainability As the last several decades have seen a dramatic rise in the application of Life Cycle Assessment LCA in decision making the interest in the life cycle concept as an environmental management and sustainability tool continues to grow The LCA Handbook offers a look at the role that life cycle information in the hands of companies governments and consumers may have in improving the environmental performance of products and technologies It concisely and clearly presents the various aspects of LCA in order to help the reader better understand the subject The content of the book was designed with a certain flow in mind After a high level overview to describe current views and state of the practice of LCA it presents chapters that address specific LCA methodological issues including creating life cycle inventory life cycle impact assessment and capturing eco systems services These are followed by example applications of LCA in the agri food industry sustainable supply chain management solid waste management mining and mineral extraction forest products buildings product innovation and sustainable chemistry and engineering The international success of the sustainability paradigm needs the participation of many stakeholders including citizens corporations academia and NGOs The handbook links LCA and responsible decision making and how the life cycle concept is a critical element in environmental sustainability It covers issues such as building capacity in developing countries and emerging economies so that they are more capable of harnessing the potential in LCA for sustainable development Governments play a very important role with the leverage they have through procurement regulation international treaties tax incentives public outreach and other policy tools This compilation points to the clear trend for incorporating life cycle information into the design and development processes for products and policies just as quality and safety concerns are now addressed throughout product design and development

Life Cycle Assessment Student Handbook

Handbook Mary Ann Curran, 2015-06-29 This student version of the popular bestseller Life Cycle Assessment Handbook is not a watered down version of the original but retains all of the important information and valuable lessons provided in the first book along with helpful problems and solutions for the student learning about Life Cycle Assessment LCA As the last several decades have seen a dramatic rise in the application of LCA in decision making the interest in the life cycle concept as an environmental management and sustainability tool continues to grow The LCA Student Handbook offers a look at the role that life cycle information in the hands of companies governments and consumers may have in improving the environmental performance of products and technologies It concisely and clearly presents the various aspects of LCA in order to help the reader better understand the subject The international success of the sustainability paradigm needs the

participation of many stakeholders including citizens corporations academia and NGOs The handbook links LCA and responsible decision making and how the life cycle concept is a critical element in environmental sustainability It covers issues such as building capacity in developing countries and emerging economies so that they are more capable of harnessing the potential in LCA for sustainable development Governments play a very important role with the leverage they have through procurement regulation international treaties tax incentives public outreach and other policy tools This compilation of points to the clear trend for incorporating life cycle information into the design and development processes for products and policies just as quality and safety concerns are now addressed throughout product design and development The Life Cycle Assessment Student Handbook is not just for students It is also a valuable resource for practitioners looking for a desktop reference on LCA or for any engineer manager or policy maker wishing to learn about LCA

Life Cycle

Assessment Surjya Narayana Pati,2022-08-23 This book offers an itemized analysis of Life Cycle Assessment LCA for use in any processes products services industries organizations and so forth Various challenges faced during applications of LCA and its extension are discussed including their benefits Further the book provides practical examples of LCA in different core sectors such as cement and construction Each chapter functions as a stand alone unit within the book and defines its individual role within the overall concept of LCA Features Covers Life Cycle Assessment LCA and future challenges including its practical applications as climate change tool Connects life cycle management and LCA environmental management Explains benefits of LCA studies for both internal and external purpose in terms of various impact parameters Identifies different raw materials or alternate energy mediums for changing inputs to reduce environmental impacts Discusses extension of LCA concept like LCC LCSA SCLA and OLCA This book is aimed at professionals in all engineering areas and environmental studies

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

Life Cycle Assessment

Aiduan Borrión,Mairi J Black,Onesmus Mwabonje,2021-03-19 Life cycle assessment LCA is an established methodology used to quantify the

environmental impacts of products processes and services Circular economy CE thinking is conceptual way of considering the impacts of consuming resources By taking a closed loop approach CE provides a framework for influencing behaviours and practices to minimise this impact Development of the circular economy is a crucial component in the progression towards future sustainability This book provides a robust systematic approach to the circular economy concept using the established methodology of LCA Including chapters on circular economic thinking the use of LCA as a metric and linking LCA to the wider circular economy this book utilises case studies to illustrate the approaches to LCA With contributions from researchers worldwide Life Cycle Assessment provides a practical global guide for those who wish to use LCA as a research tool or to inform policy process and product improvement

Handbook of Clean Energy Systems, 6 Volume Set Jinyue Yan, 2015-06-22 The Handbook of Clean Energy Systems brings together an international team of experts to present a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems Consolidating information which is currently scattered across a wide variety of literature sources the handbook covers a broad range of topics in this interdisciplinary research field including both fossil and renewable energy systems The development of intelligent energy systems for efficient energy processes and mitigation technologies for the reduction of environmental pollutants is explored in depth and environmental social and economic impacts are also addressed Topics covered include Volume 1 Renewable Energy Biomass resources and biofuel production Bioenergy Utilization Solar Energy Wind Energy Geothermal Energy Tidal Energy Volume 2 Clean Energy Conversion Technologies Steam Vapor Power Generation Gas Turbines Power Generation Reciprocating Engines Fuel Cells Cogeneration and Polygeneration Volume 3 Mitigation Technologies Carbon Capture Negative Emissions System Carbon Transportation Carbon Storage Emission Mitigation Technologies Efficiency Improvements and Waste Management Waste to Energy Volume 4 Intelligent Energy Systems Future Electricity Markets Diagnostic and Control of Energy Systems New Electric Transmission Systems Smart Grid and Modern Electrical Systems Energy Efficiency of Municipal Energy Systems Energy Efficiency of Industrial Energy Systems Consumer Behaviors Load Control and Management Electric Car and Hybrid Car Energy Efficiency Improvement Volume 5 Energy Storage Thermal Energy Storage Chemical Storage Mechanical Storage Electrochemical Storage Integrated Storage Systems Volume 6 Sustainability of Energy Systems Sustainability Indicators Evaluation Criteria and Reporting Regulation and Policy Finance and Investment Emission Trading Modeling and Analysis of Energy Systems Energy vs Development Low Carbon Economy Energy Efficiencies and Emission Reduction Key features Comprising over 3 500 pages in 6 volumes HCES presents a comprehensive overview of the latest research developments and practical applications throughout all areas of clean energy systems consolidating a wealth of information which is currently scattered across a wide variety of literature sources In addition to renewable energy systems HCES also covers processes for the efficient and clean conversion of traditional fuels such as coal oil and gas energy storage systems mitigation technologies for the reduction of

environmental pollutants and the development of intelligent energy systems Environmental social and economic impacts of energy systems are also addressed in depth Published in full colour throughout Fully indexed with cross referencing within and between all six volumes Edited by leading researchers from academia and industry who are internationally renowned and active in their respective fields Published in print and online The online version is a single publication i e no updates available for one time purchase or through annual subscription

The Mitigation of Marine Plastic Pollution in International Law Judith Schäli, 2022-04-19 The open access publication of this book has been published with the support of the Swiss National Science Foundation The massive accumulation of plastics in marine environments is one of the most pressing environmental concerns of our time This book examines the relevant international legal framework applying to land based sources of plastic pollution Against the backdrop of the dynamics of recent policy formulation in this field it outlines the main developments and provides a snapshot inventory of state obligations related to plastic pollution mitigation The Mitigation of Marine Plastic Pollution in International Law identifies the main barriers and opportunities and points out the possible building blocks of an enhanced regime

Catalysis for Sustainability Thomas P Umile, 2015-08-05 Catalysis for Sustainability Goals Challenges and Impacts explores the intersection between catalytic science and sustainable technologies as a means to addressing current economic social and environmental problems These problems include harnessing alternative energy sources pollution prevention and remediation and the manufacturing of comm

Assessing Progress Towards Sustainability Carmen Teodosiu, Silvia Fiore, Almudena Hospido, 2022-04-14 Assessing Progress toward Sustainability Frameworks Tools and Case Studies provides practical frameworks for measuring progress toward sustainability in various areas of production consumption services and urban development as they relate to environmental impact A variety of policies strategies or frameworks are available at national and international levels This book presents an integrated approach to sustainability progress measurement by considering both the frameworks and methodological developments of various tools as well as their implementation in assessing the sustainability of processes products and services through a global perspective Combining methods and their application the book covers a variety of topics including lifecycle assessment risk assessment nexus thinking and connection to SDGs Organized clearly into three main sections Frameworks Tools and Case Studies this book can serve as a practical resource for researchers and practitioners alike in environmental science sustainability environmental management and environmental engineering Offers an integrated approach to sustainability assessment using the most up to date frameworks and tools Includes extensive diverse case studies to illustrate the methods and process for using the frameworks and tools outlined Provides practical insights related to challenges and opportunities to reduce environmental impacts and increase resources and energy efficiency

Sustainability and Life Cycle Assessment in Industrial Biotechnology Magnus Fröhling, 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.

Nanoparticles as Sustainable Environmental Remediation Agents Konstantinos Simeonidis, Stefanos Mourdikoudis, 2023-10-18. Covering the intense research field of nanoparticle utilization as remediation agents for toxic pollutants, this book pays special attention to their post-application recovery, monitoring of their fate when released and life cycle analysis.

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 raises 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.

Simulation of Battery Systems Farschad Torabi, Pouria Ahmadi, 2019-11-06. **Simulation of Battery Systems: Fundamentals and Applications** covers both the fundamental and technical aspects of battery systems. It is a solid reference on the simulation of battery dynamics based on fundamental governing equations of porous electrodes. Sections cover the fundamentals of electrochemistry and how to obtain electrochemical governing equations for porous electrodes, the governing equations and physical characteristics of lead acid batteries, the physical characteristics of zinc-silver oxide batteries, experimental tests and parameters necessary for simulation and validation of battery dynamics, and an environmental impact and techno-economic assessment of battery systems for different applications such as electric vehicles and battery energy storage. The book contains introductory information with most chapters requiring a solid background in engineering or applied science. Battery industrial companies who want to improve their industrial batteries will also find this book useful. Includes carefully selected in-text problems, case studies and illustrative examples. Features representative chapter-end problems along with practical systems and applications. Covers various numerical methods including those based

on CFD and optimization also including free codes and databases Advances in Bioenergy ,2016-11-02 Advances in Bioenergy is a new series that provides both principles and recent developments in various kinds of bioenergy technologies including feedstock development conversion technologies energy and economics and environmental analysis The series uniquely provides the fundamentals of the technologies along with reviews that will be invaluable for students in understanding the technology Written and edited by a world leading scientist in the area of bioenergy and bioproducts Includes both principles and recent developments within bioenergy technologies Covers the fundamentals of the technologies and recent reviews Methods of Environmental and Social Impact Assessment Riki Therivel,Graham Wood,2017-09-13 Environmental and social impact assessment ESIA is an important and often obligatory part of proposing or launching any development project Delivering a successful ESIA needs not only an understanding of the theory but also a detailed knowledge of the methods for carrying out the processes required Riki Therivel and Graham Wood bring together the latest advice on best practice from experienced practitioners to ensure an ESIA is carried out effectively and efficiently This new edition explains how an ESIA works and how it should be carried out demonstrates the links between socio economic cultural environmental and ecological systems and assessments incorporates the World Bank s IFC performance standards and best practice examples from developing as well as developed countries includes new chapters on emerging ESIA topics such as climate change ecosystem services cultural impacts resource efficiency land acquisition and involuntary resettlement Invaluable to undergraduate and MSc students of ESIA on planning ecology geography and environment courses this internationally oriented fourth edition of Methods of Environmental and Social Impact Assessment is also of great use to planners ESIA practitioners and professionals seeking to update their skills Encyclopedia of Ecology Brian D. Fath,2018-08-23 Encyclopedia of Ecology Second Edition Four Volume Set continues the acclaimed work of the previous edition published in 2008 It covers all scales of biological organization from organisms to populations to communities and ecosystems Laboratory field simulation modelling and theoretical approaches are presented to show how living systems sustain structure and function in space and time New areas of focus include micro and macro scales molecular and genetic ecology and global ecology e g climate change earth transformations ecosystem services and the food water energy nexus are included In addition new international experts in ecology contribute on a variety of topics Offers the most broad ranging and comprehensive resource available in the field of ecology Provides foundational content and suggests further reading Incorporates the expertise of over 500 outstanding investigators in the field of ecology including top young scientists with both research and teaching experience Includes multimedia resources such as an Interactive Map Viewer and links to a CSDMS Community Surface Dynamics Modeling System an open source platform for modelers to share and link models dealing with earth system processes **Advances in Thermal Energy Storage Systems** Luisa F. Cabeza,2014-10-31 Thermal energy storage TES technologies store thermal energy both heat and cold for later use as required rather than at

the time of production They are therefore important counterparts to various intermittent renewable energy generation methods and also provide a way of valorising waste process heat and reducing the energy demand of buildings This book provides an authoritative overview of this key area Part one reviews sensible heat storage technologies Part two covers latent and thermochemical heat storage respectively The final section addresses applications in heating and energy systems Reviews sensible heat storage technologies including the use of water molten salts concrete and boreholes Describes latent heat storage systems and thermochemical heat storage Includes information on the monitoring and control of thermal energy storage systems and considers their applications in residential buildings power plants and industry Sustainable

Innovations in Food Packaging Teresa De Pilli, Antonietta Baiano, Giuseppe Lopriore, Carlo Russo, Giulio Mario Cappelletti, 2021-08-19 This book explores the latest advances in the sustainable production of packaged foods Packaging plays an important role in sustainable food production and consumption in industrialized countries where there is an increasing pressure to reduce the environmental impact of packaged foods For example the European Union recommends packaging from renewable sources with a focus on bio based materials Sustainable packaging processes guarantee the reuse of the entire waste material and at the same time avoid the loss of food safety and quality during storage by preventing food borne diseases and chemical contamination Furthermore the dramatic problem of plastic waste accumulation and the conservation of oil and food resources need to be taken into consideration This book presents eco friendly packaging strategies to reduce food and plastic waste and address the end of life issues of persistent materials It particularly focuses on the production of biodegradable microbial polymers and the use of by products and waste from the agricultural and food industries These strategies promote an innovative and productive waste based food packaging economy separating the food packaging industry from fossil reserves and allowing bio polymers to return to the soil Lastly the book covers life cycle assessment life cycle costing and externality assessment to help readers understand the economical reliability of the innovations presented **Environmentally Benign Machining** Şenol Bayraktar, Sunil Pathak, 2024-09-05 This book

provides essential information on environmentally benign sustainable machining processes including innovations and developments in conventional machining considering economy safety and productivity Developments in machine tools recent research on green lubricants and lubrication techniques process hybridization and the role of optimization techniques are discussed Green machining of difficult to machine materials and composites is also explained with attempts towards making electric discharge and electrochemical machining technologies Features Covers up to date and latest information on environmentally benign machining technologies Includes current approaches regarding the machinability properties of biomaterials smart materials and difficult to cut materials Reviews theoretical understanding and practical aspects of using different technological approaches to attain sustainability in machining Includes sustainability aspects for both conventional and modern machining Aids industrial users in the optimum selection of machining parameters with regard to sustainability

This book is aimed at researchers and professionals in manufacturing and mechanical engineering and sustainable processes

Wells to Wire Sarah Marie Jordaan, 2021-07-08 This book presents an unbiased comprehensive examination of the state of knowledge for life cycle assessments LCAs of natural gas fired electricity covering a suite of environmental impact categories An exploration of the life cycle environmental impacts of gas fired electricity is used to introduce the field of LCA advancements in methods and data and the limitations thereof Natural gas particularly as a fuel for electricity generation serves as a dichotomy within energy and environmental systems analysis While the cleanest burning fossil fuel it is not without impacts making it an excellent case study for introducing life cycle assessment This book introduces readers to the field of LCA using natural gas fired electricity as a case study as well as providing a comprehensive review of the state of the art in life cycle data research and scientific debate related to this product system The author also elucidates data and methodological challenges inherent to the field of LCA exemplified using published research The text explores how to conduct LCA describing the analysis from the perspective of a numerator and denominator With each chapter the complexity of undertaking a LCA of gas fired power is unravelled beyond a simple fraction to the expansive network of infrastructure examined in this type of research Students instructors LCA practitioners and energy professionals will benefit from not only the introduction to data and methods but also this useful summary of the state of the art in the field Policymakers and the interested public can learn more about the implications of LCA results for decision support and the commentary about the economics of natural gas and its role as a bridge fuel This book provides not only a useful reference but also a springboard for researchers and experts interested in specializing in LCA natural gas or both

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