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# Life Cycle Assessment (LCA) of Light-Weight Eco-composites



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# Life Cycle Assessment Lca Of Light Weight Eco Composites Springer Theses

**Paolo Frankl, Frieder Rubik**



## **Life Cycle Assessment Lca Of Light Weight Eco Composites Springer Theses:**

**Life Cycle Assessment (LCA) of Light-Weight Eco-composites** Miao Guo, 2013-01-11 Miao Guo's PhD thesis provides scientific insights into the environmental issues related to biocomposites based on starch polyvinyl alcohol PVOH blends. The author contributes significantly to the methodological issues underlying the Life Cycle Assessment LCA modelling approach. As well as presenting complete LCA inventories using primary data from a variety of sources, Guo develops a new modelling approach incorporating the process-oriented biogeochemistry model Denitrification Decomposition DNDC into site-specific LCA studies to simulate carbon and nitrogen dynamics in the wheat agro ecosystem. This thesis addresses important LCA data quality issues by using comprehensive sensitivity and uncertainty analyses and has resulted in a large number of publications in internationally renowned journals.

**Life Cycle Assessment (Lca) of Light-Weight Eco-Composites** Springer, 2013-01-11

**Magnesium Technology 2015** Michele Manuel, Alok Singh, Martyn Alderman, Neale Neelameggham, 2016-12-26 The Magnesium Technology Symposium, the event on which this collection is based, is one of the largest yearly gatherings of magnesium specialists in the world. Papers represent all aspects of the field, ranging from primary production to applications to recycling. Moreover, papers explore everything from basic research findings to industrialization. Magnesium Technology 2015 covers a broad spectrum of current topics, including alloys and their properties, cast products and processing, wrought products and processing, forming, joining and machining, corrosion and surface finishing, ecology and structural applications. In addition, there is coverage of new and emerging applications.

**Sustainable Approaches in Spatial Design** Geçimli, Meryem, 2025-06-20 Sustainability attracts the attention of spatial design disciplines and other academics. The spatial design and structural activities of sustainability have three main sections, which are ecological, economic, and socio-cultural sustainability. These sections take into account factors such as the life cycle of people and materials, the influence of different lifestyles, and energy consumption. The insights from sustainability have important implications for housing models that balance flexibility, sustainability, and cultural relevance. Sustainable Approaches in Spatial Design explores the shifting changes in the dynamics of and environmental concerns surrounding the rapid increase in urbanization. It highlights the need for mindful consumption in diverse geographical and socio-economic settings to support global sustainability. Covering topics such as cost-effective sampling, greenhouse gas (GHG) and daylight calculation methods, this book is an excellent resource for architects, urban planners, policymakers, sustainability experts, engineers, economists, sociologists, professionals, researchers, scholars, academicians, and more.

Technologies for economic and functional lightweight design Klaus Dröder, Thomas Vietor, 2021-03-10 This book comprises the proceedings of the conference Future Production of Hybrid Structures 2020, which took place in Wolfsburg. The conference focused on hybrid lightweight design, which is characterized by the combination of different materials with the aim of improving properties and reducing weight. In particular, production technologies for hybrid lightweight design were discussed, new evaluation methods for the

ecological assessment of hybrid components were presented and future oriented approaches motivated by nature for the development of components assemblies and systems were introduced Lightweight design is a key technology for the development of sustainable and resource efficient mobility concepts Vehicle manufacturers operate in an area of conflict between customer requirements competition and legislation Material hybrid structures which combine the advantages of different materials have a high potential for reducing weight while simultaneously expanding component functionality The future efficient use of function integrated hybrid structures in vehicle design requires innovations and constant developments in vehicle and production technology There is a great demand especially with regard to new methods and technologies for affordable lightweight construction in large scale production taking into account the increasing requirements with regard to variant diversity safety and quality

**Sustainable Aviation Innovations, Advancements, and Destinations** T. Hikmet Karakoc, Jelena Svorcan, Ognjen M. Peković, Alper Dalkiran, Bahadır Cinoğlu, 2025-09-30 Sustainable aviation involves developing long term strategies to address the challenges faced by the aviation industry The International Symposium on Sustainable Aviation is a multidisciplinary conference that focuses on research related to sustainability issues and future trends in aviation considering economic social and environmental perspectives The conference covers a wide range of current topics in aviation such as enhancing aircraft fuel efficiency promoting the use of biofuels minimizing environmental impact reducing greenhouse gas emissions and addressing engine and airframe noise The event provides a platform for researchers scientists engineers practitioners policymakers and students to share information present new technologies and developments and discuss the future direction strategies and priorities in aviation and sustainability

**Environmental Assessment of Lightweight Electric Vehicles** Patricia Egede, 2016-07-25 This monograph addresses the challenge of the environmental assessment of lightweight electric vehicles It poses the question whether the use of lightweight materials in electric vehicles can reduce the vehicles environmental impact and compares the environmental performance of a lightweight electric vehicle LEV to other types of vehicles The topical approach focuses on methods from life cycle assessment LCA and the book concludes with a comprehensive concept on the environmental assessment of LEVs The target audience primarily comprises LCA practitioners from research institutes and industry but it may also be beneficial for graduate students specializing in the field of environmental assessment

*Engineering Solutions for Sustainability* Jeffrey Fergus, Brajendra Mishra, Dayan Anderson, Emily Allyn Sarver, Neale Neelameggham, 2016-12-01 With impending and burgeoning societal issues affecting both developed and emerging nations the global engineering community has a responsibility and an opportunity to truly make a difference and contribute The papers in this collection address what materials and resources are integral to meeting basic societal sustainability needs in critical areas of energy transportation housing and recycling Contributions focus on the engineering answers for cost effective sustainable pathways the strategies for effective use of engineering solutions and the role of the global engineering community Authors share perspectives on the

major engineering challenges that face our world today identify discuss and prioritize engineering solution needs and establish how these fit into developing global demand pressures for materials and human resources

**Needs and Feasibility** Caroline Baillie, Eric Feinblatt, Timothy Thamae, Emily Berrington, 2022-05-31 Needs and Feasibility A Guide for Engineers in Community Projects The Case of Waste for Life is the story of Waste for Life WFL WFL is a not for profit organization that works to promote poverty reducing solutions to environmental problems and its educational branch is an international consortium of universities in six countries involving students in support of community development projects WFL currently works in Lesotho and Argentina We present the story of the development of WFL in each country as a case based guide to engineers professors and students interested in community development work particularly in contexts very different from their own We focus mainly on the set up stages framing the projects to ensure that community needs are adequately articulated and acted upon We begin with needs assessment what is it that needs to be done for whom and why How feasible is this technically economically and can we guarantee sustainability Before we can decide any of this we need to understand and map the territory who are the key players who have the most influence and who will be most impacted by what we are doing What is the role of the local government If the groups are working as cooperatives what does this mean and what are these groups looking for What is the technical solution going to look like If it is a product how will it be marketed What other social environmental and economic impacts will it have and on whom Once these have all been negotiated and it is clear that all parties are working towards a mutually acceptable goal how do we move forward so that any dependence on external partners is removed When do we bring students into the work What role can they play Should they stay at home and support the project from there or is it better to do work in the field This guide will be useful for the student engineer or the experienced engineer or professor who is interested in moving towards socially just engineering development work but has no idea where to begin The real difficulties and on the ground issues encountered by the Waste for Life team are presented honestly and with the knowledge that we must learn from our mistakes Only then can we hope to gain a better understanding of our potential role in supporting community development and move towards a better future

Table of Contents An Introduction Assessing the Need in Lesotho Feasibility of WFL Lesotho Mapping the Territory in Buenos Aires Stakeholder Focus The Local Government Stakeholder Focus Cooperatives Sustainability Economic Environmental and Social Student Involvement Summary Thoughts

*Advances in Natural Fibre Composites* Raul Figueiro, Sohel Rana, 2017-10-24 This book presents selected high quality research papers submitted to ICNF 2017 the 3rd International Conference on Natural Fibers which was held in Braga Portugal on 21 23 June 2017 It discusses the latest research and developments in the field and covers a wide range of topics related to various aspects of natural fiber composites such as production and processing of raw materials surface modification and functionalization advanced fibrous structures for composites nano fibers experimental characterization modeling and analysis design and product development applications

market potential and environmental impacts The book presents the latest research work addressing different approaches and techniques to improve processing performance functionalities and cost effectiveness of natural fibers composites in order to increase their applications in different industrial sectors such as automobiles transportation construction and sport *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 *Progress in Life Cycle Assessment 2019* Stefan Albrecht, Matthias Fischer, Philip Leistner, Liselotte Schebek, 2020-09-21 This book covers the latest developments in life cycle assessment LCA both in terms of methodology and its application in various research areas It includes methodological questions as well as case studies concerning energy and mobility materials and engineering sustainable construction and future technologies With numerous research articles from leading German and Austrian research institutes the book is a valuable source for professionals working in the field of sustainability assessment researchers interested in the current state of LCA research and advanced university students in various scientific and technical fields Chapter Life Cycle Assessment of a Hydrogen and Fuel Cell RoPax Ferry Prototype is available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com) The Computational Structure of Life Cycle Assessment R. Heijungs, Sangwon Suh, 2013-04-17 Life Cycle assessment LCA is a tool for environmental decision support in relation to products from the cradle to the grave Until now more emphasis has been put on the inclusion quantitative models and databases and on the design of guidebooks for applying LCA than on the integrative aspect of combining these models and data This is a remarkable thing since LCA in practice deals with thousands of quantitative data items that have to be combined in the correct manner For this one needs mathematical rules and algorithmic principles for carrying out an LCA This book presents the first coherent treatment of the mathematical and algorithmic aspects of LCA These computational aspects are presented in matrix form so that a concise and elegant formulation is achieved This form moreover provides a platform for further extension of analysis using perturbation theory structural theory and economic input output analysis Eco-efficient Construction and Building

Materials Fernando Pacheco-Torgal, Luisa F. Cabeza, Joao Labrincha, Aldo Giuntini de Magalhaes, 2014-02-14 Eco efficient Construction and Building Materials reviews ways of assessing the environmental impact of construction and building materials Part one discusses the application of life cycle assessment LCA methodology to building materials as well as eco labeling Part two includes case studies showing the application of LCA methodology to different types of building material from cement and concrete to wood and adhesives used in building Part three includes case studies applying LCA methodology to particular structures and components Reviews ways of assessing the environmental impact of construction and building materials Provides a thorough overview including strengths and shortcomings of the life cycle assessment LCA and eco labeling of eco efficient construction and building materials Includes case studies showing the application of LCA methodology to different types of building material from cement and concrete to wood and adhesives used in building

Life Cycle Assessment (LCA) — Quo vadis? S. Schaltegger, 1996-08-28 LCA Quo vadis discusses overarching topics new developments and major problems of Life Cycle Assessment LCA and compares LCA with site specific environmental management The text profits from two years of interdisciplinary coordinated research activities of the Priority Programme Environment of the Swiss National Science Foundation How should system boundaries of a product life cycle be drawn How can environmental interventions be allocated to products How are background inventory data collected and used How can imprecision in the LCA method be ascertained and checked How can relevant environmental interventions be distinguished from irrelevant ones What requirements should a software tool for LCA meet A concept of site specific LCA is proposed in response to criticism of the current approach of LCA Furthermore managerial eco controlling the emerging method of site specific environmental management is discussed The book concludes with an outlook of possible paths in the future development of LCA

**Life Cycle Assessment in Industry and Business** Paolo Frankl, Frieder Rubik, 2013-03-14 1 1 Life Cycle Assessment LeA a fascinating and sophisticated tool The greening of the economy is not a new task but it is a challenge for which a lot of tasks still have to be done It is known that the main source of environmental deterioration by industry is not any more the chimneys and other process related emissions but the products and services produced Products are regarded as carriers of pollution they are not only a potential source of pollution and waste during their use they are also a cause of resource depletion energy consumption and emissions during their life starting with the extraction of the raw materials and ending with their disposal i.e. connecting production and consumption stages The challenge of these decades is now the greening of products and services The new focus on products cp Oosterhuis Rubik Scholli 1996 was introduced as a policy approach of shared responsibility in which different actors are involved along the life cycle of a product each having specific responsibilities

**Progress in Life Cycle Assessment 2021** Franziska Hesser, Iris Kral, Gudrun Obersteiner, Stefan Hörtenhuber, Martin Kühmaier, Vanessa Zeller, Liselotte Schebek, 2023-07-15 This book covers the latest developments in life cycle assessment LCA both in terms of methodology and its application in various research areas It

includes methodological questions as well as case studies of strategies in the context of circular economy and new emerging technologies design of conceptual frameworks especially related to social LCA and the use of novel modeling approaches with a focus on energy supply and land use With research articles from leading German and Austrian research institutes the book is a valuable source for professionals working in the field of sustainability assessment researchers interested in the current state of LCA research and advanced university students in various scientific and technical fields 6 chapters are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

**Goal and Scope Definition in Life Cycle Assessment** Mary Ann Curran, 2016-09-22 This book describes the importance of the goal and scope phase for the entire LCA study In this first phase of the LCA framework ISO standardized the purpose of the assessment is defined and decisions are made about the details of the industrial system being studied and how the study will be conducted Selecting impact categories category indicators characterization models and peer review is decided during goal and scope definition The book provides practical guidance and an overview of LCIA methods available in LCA software Although not specified in the ISO standards Attributional LCA and Consequential LCA are presented in order to appropriately determine the goal and scope of an assessment The book closes with the interconnection between goal and scope definition and the interpretation phase Example goal and scope documents for attributional and consequential LCAs are provided in the annexes

**Progress in Life Cycle Assessment 2018** Frank Teuteberg, Maximilian Hempel, Liselotte Schebek, 2019-02-14 This book comprises recent developments in life cycle assessment LCA both with regards to the methodology and its application in various research fields including mobility engineering and manufacturing Containing numerous original research articles from leading German research institutes the book provides an insightful resource for professionals working in the field of sustainability assessment for researchers interested in the current state of LCA research as well as for advanced university students in different scientific and engineering fields

**Progress in Life Cycle Assessment 2018** Frank Teuteberg, Maximilian Hempel, Liselotte Schebek, 2019 This book comprises recent developments in life cycle assessment LCA both with regards to the methodology and its application in various research fields including mobility engineering and manufacturing Containing numerous original research articles from leading German research institutes the book provides an insightful resource for professionals working in the field of sustainability assessment for researchers interested in the current state of LCA research as well as for advanced university students in different scientific and engineering fields



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