

Life Cycle Assessment Lca

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this first hands on guide to iso compliant life cycle assessment lca makes this powerful tool immediately accessible to both professionals and students following a general introduction on the philosophy and purpose of lca the reader is taken through all the stages of a complete lca analysis with each step exemplified by real life data from a major lca project on beverage packaging measures as carbon and water footprint based on the most recent international standards and definitions are addressed written by two pioneers of lca this practical volume is targeted at first time lca users but equally makes a much valued reference for more experienced practitioners from the content goal and scope definition life cycle inventory analysis life cycle impact assessment interpretation reporting and critical review from lca to sustainability assessment and more

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

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

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

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

life cycle assessment lca is used to evaluate the environmental impacts of textile products from raw material extraction through fibre processing textile manufacture distribution and use to disposal or recycling lca is an important tool for the research and development process product and process design and labelling of textiles and clothing handbook of life cycle assessment lca of textiles and clothing systematically covers the lca process with comprehensive examples and case studies part one of the book covers key indicators and processes in lca from carbon and ecological footprints to disposal re use and recycling part two then discusses a broad range of lca applications in the textiles and clothing industry covers the lca process and its key indicators including carbon and ecological footprints disposal re use and recycling examines

the key developments of lca in the textile and clothing industries provides a wide range of case studies and examples of lca applications in the textile and clothing industries

this collection features five peer reviewed literature reviews on life cycle assessment lca of crops the first chapter discusses the application of lca to agricultural systems and highlights key issues associated with its implementation including delimitation of systems boundaries defining the functional unit handling coproduction and the choosing of impact assessment methods the second chapter explores the concepts of lca and the coffee value chain the chapter discusses how carbon footprint performances can be used to upgrade coffee value chains the third chapter assesses the environmental impact of oil palm production during cultivation and as a result of land use change for new plantations the chapter describes the principles and modelling steps of lca as well as the challenges ahead regarding further development and application the fourth chapter reviews the core principles of lca methodology the state of the art of lca for fruits and associated key challenges the first complete lca case study for export mango is also discussed the final chapter assesses the environmental impact of banana production and highlights the importance of lca in influencing the adoption of practices that can reduce or offset the carbon footprint of the banana value chain

tourism is an activity that anyone can take part in regardless of their age gender nationality or level of income this makes tourism one of the most rapidly developing industries in the world despite the number of benefits which tourism produces it also has significant negative impacts on the environment to minimise the scope of these negative impacts joint efforts combining tourism and environmental management are called for this book examines the application of the life cycle assessment lca method and lifecycle thinking as a tool to generate more accurate and holistic appraisals of the environmental impacts of tourism looking at the issue of sustainability of tourism operations the book evaluates how it can be improved it highlights the potential of lca to affect tourist behaviour and contribute to tourism policy making and managerial practice this book provides a valuable resource for undergraduates postgraduates and researchers interested in sustainable tourism sustainable development and environmental impact assessment

the book contains the latest developments in the field of life cycle assessment lca and its application it contains numerous research articles from leading german research institutes working towards the further development of the methodology the book provides important insights for professionals working in the field of sustainability assessment for researchers interested in the current state of the research of the methodology and its application as well as for advanced university students in different science and engineering fields

life cycle assessment

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

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 lca has become the recognized instrument to assess the ecological burdens and human health impacts connected with the complete life cycle creation use end of life of products processes and activities enabling the assessor to model the entire system from which products are derived or in which processes and activities operate this volume introduces the major new book series lca compendium the complete world of life cycle assessment in this volume the main drivers in the development of lca are explored the volume also discusses strengths and limitations in lca as well as challenges and gaps thus offering an unbiased picture of the state of the art and future of lca

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this is a comprehensive resource on the rediscovered area of life cycle assessment as it can be applied to human health and the environment the reader will receive a brief history of lca and its re emergence in 1990

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