

Samsung Life Cycle Assessment For Mobile Phones

Life Cycle Assessment
Progress in Life Cycle Assessment
Life Cycle Assessment
Life Cycle Assessment (LCA) of Environmental and Energy Systems
Life Cycle Assessment Handbook
Nordic Guidelines on Life-Cycle Assessment
Sustainability and Life Cycle Assessment in Industrial Biotechnology
Towards Net-zero Carbon Initiatives: A Life Cycle Assessment Perspective
Handbook on Life Cycle Assessment
Background and Future Prospects in Life Cycle Assessment
Life Cycle Assessment (LCA) — Quo vadis? Progress in Life Cycle Assessment 2018
Life Cycle Assessment in Industry and Business
Guidelines for Life-cycle Assessment
Integrated Life-Cycle and Risk Assessment for Industrial Processes and Products
Environmental Life-cycle Assessment
Human Factors for Sustainability
Sustainable Aquafeeds
Environmental Life Cycle Assessment Michael Z. Hauschild Liselotte Schebek
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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 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 addresses the dynamic and dialectic of building and ecology presenting the key theories and techniques surrounding the use of life cycle assessment data and methods architects and construction professionals must assume greater responsibility in helping building owners to understand the implications of making material manufacturing and assemblage decisions and therefore design to accommodate more ecological building life cycle assessment is a guide for architects engineers and builders presenting the principles and art of performing life cycle impact assessments of materials and whole buildings including the need to define meaningful goals and objectives and critically evaluate analysis assumptions as part of the pocketarchitecture series the book includes both fundamentals and advanced topics the book is primarily focused on arming the design and construction professional with the tools necessary to make design decisions regarding life cycle reuse and sustainability as such the book is a practical text on the concepts and applications of life cycle techniques and environmental impact evaluation in architecture and is presented in language and depth appropriate for building industry professionals

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

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

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

on cover environmental

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](http://link.springer.com)

as industrialized nations look into emerging new technologies focusing on renewable or efficient energy use along with the move towards sustainable development goals challenges related to achieving low carbon economy projects have gained much attention this book explores various initiatives and potential methods to achieve net zero carbon targets and issues life cycle assessment lca will play an important role as an effective and comprehensive method to analyze potential greenhouse gas emissions and other environmental impacts of a technology or system lca is a holistic and system wide scientific method that can be used to quantify impact metrics chosen to evaluate any emerging net zero carbon technologies of interest and reveal environmental trade offs or further research opportunities that are required for balancing co2 emissions lca perspectives of net zero carbon technologies can also be used to outline decision making strategies for a nation s shift towards low carbon economic development

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

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

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

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

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 polution they are not only a potential source of polution and waste during their use they are also a cause of resource depletion energy consumption and emissions du ring 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 oosterhuislrubik scholi 1996 was introduced as a policy approach of shared responsibility in which different actors are in volved along the life cycle of a product each having specific responsibilities

life cycle assessment is a methodology used to evaluate the environmental impacts of a product process or service during its life cycle and risk assessment is a tool to evaluate potential hazards to human health and the environment introduced by pollutant emissions the united nations sustainable development goals call for among other objectives responsible consumption and production by decoupling environmental resource use and environmental impacts from economic growth and human well being life cycle assessment and risk assessment are both analytical system approaches that allow scientists and other decision makers to address these issues and objectives according to the current understanding of environmental mechanisms this book is the first attempt to illustrate the existing interfaces between life cycle assessment and risk assessment and to indicate options for further integration of both tools the second edition focuses on sustainability considers new developments in life cycle assessment and environmental risk assessment over the last ten years at the international level introduces broader concepts and discussions on integrative versus the complementary use of life cycle and risk assessments extends the scope of integrated life cycle and risk assessments to critical raw materials includes more case studies and discusses engineered nanomaterials featuring contributions from leading experts integrated life cycle and risk assessment for industrial processes and products is a great reference for graduate students and professionals in environmental management and intends to catalyze communication between life cycle assessment and risk assessment experts and scientists in academia industry and governmental agencies the practical format of the book illustrated with flowcharts examples exercises and concrete applications makes it a useful manual for analyzing situations and making decisions

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

this book deals with the central question of how human factors and ergonomics hfe might contribute to solutions for the more sustainable development of our world the contents of the book are highly compatible with the recent political agenda for sustainable development as well as with sustainability research from other disciplines the book aims to summarize and profile the various empirical and theoretical work arising from the field of human factors and sustainable

development in the last decade the book gives a systematic overview of relevant theoretical concepts their underlying philosophies as well as global application fields and case studies

aquaculture the youngest fastest growing and most dynamic protein producing industry has the key advantage of efficient use of feed that allows farmed fish to be competitively priced compared with terrestrial proteins sustainable aquafeeds technological innovation and novel ingredients explores the present and future evolution of feeds explains the current challenges for aquaculture and considers how advances in technologies and ingredients can produce aquafoods for the increasing world population international contributors to this book provide state of the art information on the profile of the aquafeed industry including factors affecting supplies and prices of key ingredients for aquafeed production an entire set of chapters covers the scientific advances and feed industry initiatives in accordance with modern consumer trends updating readers on the most promising strategies these include the use of novel ingredients for nutrient supplementation and the enhancement of their use by genetic selection the authors hope to inspire a collaboration of ngos researchers and private partnerships to replace wild caught ingredients by accelerating and supporting the scaling of innovative alternative aquaculture feed ingredients including bacterial meals plant based proteins algae and yeast

environmental life cycle assessment is a pivotal guide to identifying environmental problems and reducing related impacts for companies and organizations in need of life cycle assessment lca lca a unique sustainability tool provides a framework that addresses a growing demand for practical technological solutions detailing each phase of the lca methodology this textbook covers the historical development of lca presents the general principles and characteristics of lca and outlines the corresponding standards for good practice determined by the international organization for standardization it also explains how to identify the critical aspects of an lca provides detailed examples of lca analysis and applications and includes illustrated problems and solutions with concrete examples from water management electronics packaging automotive and other industries in addition readers will learn how to use consistent criteria to realize and evaluate an lca independently of individual interests understand the lca methodology and become familiar with existing databases and methods based on the latest results of international research analyze and critique a completed lca apply lca methodology to simple case studies geared toward graduate and undergraduate students studying environmental science and industrial ecology as well as practicing environmental engineers and sustainability professionals who want to teach themselves lca good practices environmental life cycle assessment demonstrates how to conduct environmental assessments for products throughout their life cycles it presents existing methods and recent developments in the growing field of lca and systematically covers goal and system definition life cycle inventory life cycle impact assessment and interpretation

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