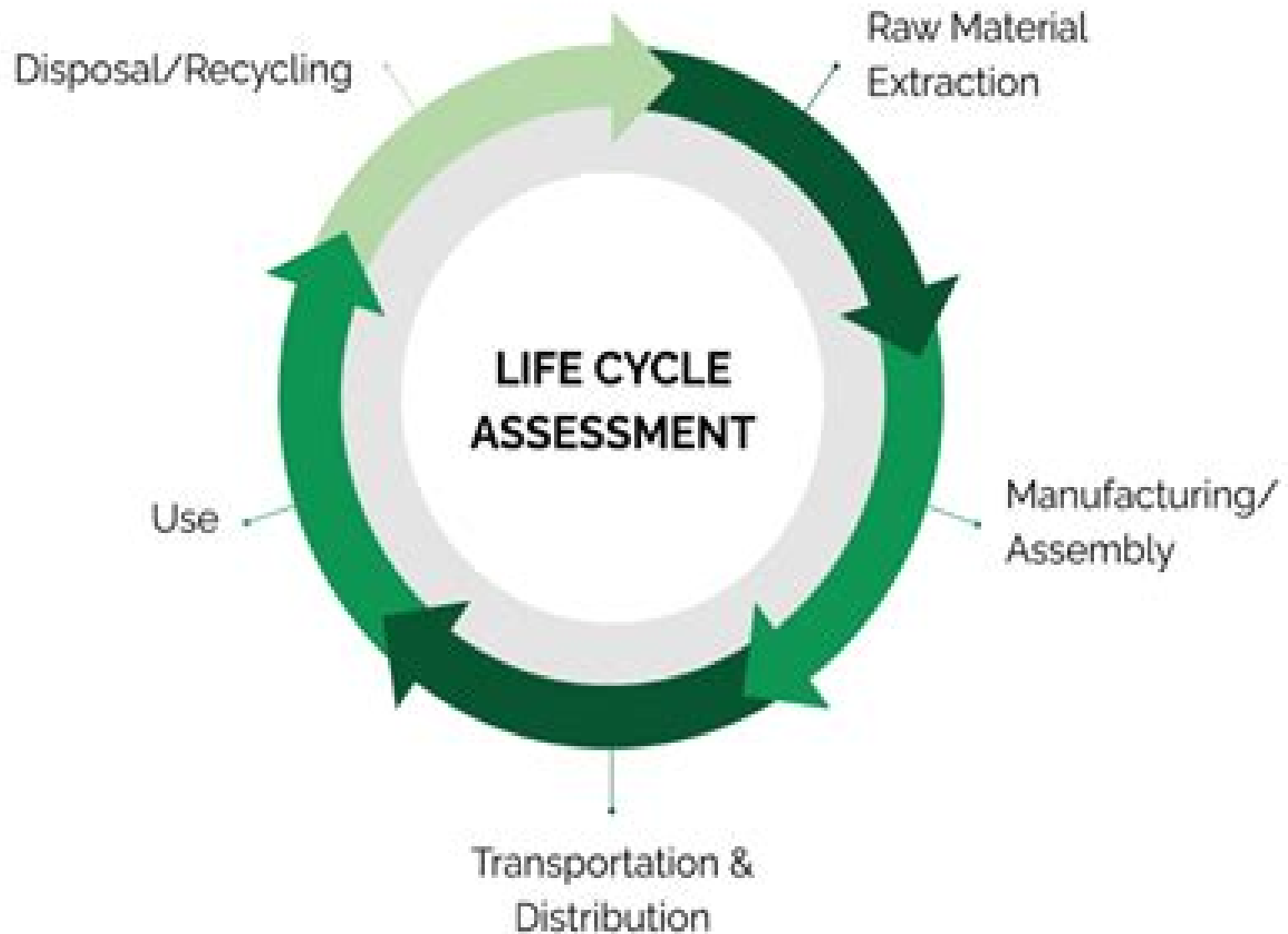




Streamlined Life Cycle Assessment

Magnus Fröhling, Michael Hiete



Streamlined Life Cycle Assessment:

Development of Metrics for Streamlined Life Cycle Assessments Maria de Lourdes Alcaraz Ochoa, 2016 Growing concern about climate change and human impact on the environment have resulted in an increase in interest for evaluating the environmental impact of products and services we consume Life cycle assessment LCA has become the most prominent method for environmental evaluation Life cycle assessment is the quantification of the environmental impacts of a product or service through its whole life cycle from the extraction of materials to manufacturing and end of life A carbon footprint is a subset of an LCA LCAs are required as part of government regulations used by companies to identify high resource use in their supply chain or to choose between product designs and by consumers to choose between alternative product choices LCAs provide valuable information however they are resource intensive time consuming and uncertain Therefore a methodology that addresses all these issues is needed This study addresses the following question Can LCAs be streamlined while still providing useful information To answer this an under specification probabilistic screening methodology is employed The screening methodology uses a high level assessment of the footprint incorporates uncertainty in the inputs and refines data around the primary drivers of impact The streamlined LCA procedure is extended to include a Sobol based sensitivity analysis methodology for identifying high impact activities The effects of partial perfect information in subsequent data acquisition activities on the streamlining methodology are examined Metrics to determine sufficiency in the data gathering procedure and to determine whether decision makers can sufficiently distinguish between two products or design alternatives are developed A procedure to quantify the cost of additional information is developed Finally an exploration of the scenario space of the impacts is analyzed The extended streamlined methodology is applied to a case study on tablets with a focus on integrated circuits This thesis finds that the streamlined probabilistic methodology can be used to cost effectively evaluate the environmental impact of products while still taking uncertainty into account Metrics to determine sufficiency can be effectively used and the presence of partial information does not limit the usefulness of the metrics Furthermore quantifying the cost of additional information can help determine sufficiency in data collection efforts and can help understand the challenges that companies face when performing an LCA

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

Life Cycle Assessment in the Built Environment Robert Crawford, 2011-03-10 Life cycle assessment enables the identification of a broad range of potential environmental impacts occurring across the entire life of a product from its design through to its eventual disposal or reuse The need for life cycle assessment to inform environmental design within the built environment is critical due to the complex range of materials and processes required to construct and manage our buildings and infrastructure systems After outlining the framework for life cycle assessment this book uses a range of case studies to demonstrate the innovative input output based hybrid approach for compiling a life cycle inventory This approach enables a comprehensive analysis of a broad range of resource requirements and environmental outputs so that the potential environmental impacts of a building or infrastructure system can be ascertained These case studies cover a range of elements that are part of the built environment including a residential building a commercial office building and a wind turbine as well as individual building components such as a residential scale photovoltaic system Comprehensively introducing and demonstrating the uses and benefits of life cycle assessment for built environment projects this book will show you how to assess the environmental performance of your clients projects to compare design options across their entire life and to identify opportunities for improving environmental performance

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

Streamlined Life-cycle Assessment T. E. Graedel, 1998 This book examines the question of what makes one design environmentally preferable to another Graedel discusses data and analyzes the streamlined life cycle assessment process in the context of the goals of a particular process or product **FEATURES** Discusses environmental objectives as the basis of life cycle assessment Focuses on streamlined LCAs a technique common in industry today Includes unique coverage of the assessment of societal infrastructures Ch 12 Ends with a hypothetical discussion of what an environmentally perfect product

might look like Includes useful checklists for performing SLCA *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 **Life Cycle Assessment Student Handbook** Mary Ann Curran, 2015-07-10 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 *The Use of Life Cycle Assessment in Environmental Labelling Programs* Gary Allen Davis, 1993 This report documents the methodologies used by independent third party

environmental labelling programs for the development of criteria for certification of products for environmental labelling In particular the project investigated the extent to which life cycle assessment LCA methodologies are being used in environmental labelling programs worldwide The report also describes alternative methodologies that are being used or that could potentially be used for environmental labelling Probability, Statistics and Life Cycle Assessment Reinout Heijungs, 2024-05-20 This textbook discusses the use of uncertainty analysis and sensitivity analysis in environmental life cycle assessment LCA This is a topic which has received a lot of attention by journals including the leading Springer International Journal of Life Cycle Assessment Despite its importance no coherent textbook exists that summarizes the progress that has been made in the last 20 years This book attempts to fill that gap Its audience is practitioners professional and academic of LCA teachers and Ph D students It gives a very broad overview of the field probability theory descriptive statistics inferential statistics error analysis sensitivity analysis decision theory etc all in relation to LCA Much effort has been taken to give a balanced overview with a uniform terminology and mathematical notation **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

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