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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 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 Sustainability Assessment for Decision-Making: Methodologies and Case Studies gives readers a comprehensive introduction to life cycle sustainability assessment (LCSA) methodology for sustainability measurement of industrial systems, proposing an efficiency methodology for stakeholders and decision-makers. Featuring the latest methods and case studies, the book will assist researchers in environmental sciences and energy to develop the best methods for LCA, as well as aiding those practitioners who are responsible for making decisions for promoting sustainable development. The past, current status and future of LCSA, Life Cycle Assessment method (LCA), Life Cycle Costing (LCC), Social Life Cycle Assessment (SLCA), the methodology of LCSA, typical LCSA case studies, limitations of LCSA, and life cycle aggregated sustainability index methods are all covered in this multidisciplinary book. Includes models for assessing sustainability in environmental, energy

engineering and economic scenarios Features case studies that help define the advantages and obstacles of real world applications Presents a complete view, from theory to practice, of a life cycle approach by exploring the methods and tools of sustainability assessment, analysis and design of sustainability assessment

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. The concrete industry is considered to be a large consumer of energy and natural resources, and is one of the main sources of greenhouse emissions and waste

generation. The production and utilization of concrete and concrete structures have a large impact on the environment, and so the environmental assessment of concrete is of great importance in terms of achieving a sustainable society. This chapter includes instructions on how to apply the life cycle assessment (LCA) methodology to concrete, including a general description, life cycle inventory and life cycle impact assessment of concrete, future trends and sources of further information.

Life Cycle Assessment (LCA) has developed in Australia over the last 20 years into a technique for systematically identifying the resource flows and environmental impacts associated with the provision of products and services. Interest in LCA has accelerated alongside growing demand to assess and reduce greenhouse gas emissions across different manufacturing and service sectors. Life Cycle Assessment focuses on the reflective practice of LCA, and provides critical insight into the technique and how it can be used as a problem-solving tool. It describes the distinctive strengths and limitations of LCA, with an emphasis on practice in Australia, as well as the application of LCA in waste management, the built environment, water and agriculture. Supported by examples and case studies, each chapter investigates contemporary challenges for environmental assessment and performance improvement in these key

sectors. LCA methodologies are compared to the emerging climate change mitigation policy and practice techniques, and the uptake of 'quick' LCA and management tools are considered in the light of current and changing environmental agendas. The authors also debate the future prospects for LCA technique and applications.

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 (LCA) as it can be applied to human health and the Environment. This book will be organized in order of how a life cycle assessment is done. The reader will also receive a brief history of LCA and its re-emergence in 1990. There will be a complete investigation of how LCA can be used to help industry meet their environmental goals. This book outlines the methodologies, approaches and tools for modelling chemicals in a Life Cycle Assessment (LCA) perspective, and also covers the main advantages and

drawbacks of applying LCA to chemical processes. In the first part of this book, authors pay close attention to the limitations of modelling the environmental and social impacts of chemical processes, providing valuable insights to the problems of the Life Cycle Inventory (LCI) analysis for chemical processes. In the second part of this book, readers will learn about the LCA application to chemical processes in the laboratory and industrial scale. In each chapter of this book, readers will also find specific case studies on the modelling and application of LCA in the chemical industry.

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.

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

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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. Environmental life cycle assessment is often thought of as cradle to grave and therefore as the most complete accounting of the environmental costs and benefits of a product

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or service. However, as anyone who has done an environmental life cycle assessment knows, existing tools have many problems: data is difficult to assemble and life cycle studies take months of effort. A truly comprehensive analysis is prohibitive, so analysts are often forced to simply ignore many facets of life cycle impacts. But the focus on one aspect of a product or service can result in misleading indications if that aspect is benign while other aspects pollute or are otherwise unsustainable. This book summarizes the EIO-LCA method, explains its use in relation to other life cycle assessment models, and provides sample applications and extensions of the model into novel areas. A final chapter explains the free, easy-to-use software tool available on a companion website. (www.eiolca.net) The software tool provides a wealth of data, summarizing the current U.S. economy in 500 sectors with information on energy and materials use, pollution and greenhouse gas discharges, and other attributes like associated occupational deaths and injuries. The joint project of twelve faculty members and over 20 students working together over the past ten years at the Green Design Institute of Carnegie Mellon University, the EIO-LCA has been applied to a wide range of products and services. It will prove useful for research, industry, and in economics, engineering, or interdisciplinary classes in green design.

Life-Cycle Assessment of Semiconductors presents the first and thus far only available transparent and complete life cycle assessment of semiconductor devices. A lack of reliable semiconductor LCA data has been a major challenge to evaluation of the

potential environmental benefits of information technologies (IT). The analysis and results presented in this book will allow a higher degree of confidence and certainty in decisions concerning the use of IT in efforts to reduce climate change and other environmental effects. Coverage includes but is not limited to semiconductor manufacturing trends by product type and geography, unique coverage of life-cycle assessment, with a focus on uncertainty and sensitivity analysis of energy and global warming missions for CMOS logic devices, life cycle assessment of flash memory and life cycle assessment of DRAM. The information and conclusions discussed here will be highly relevant and useful to individuals and institutions.

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/Scholl 1996) was introduced as a policy approach of shared

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responsibility in which different actors are involved along the life-cycle of a product, each having specific responsibilities.

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

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in LCA, natural gas, or both.

The environmental life cycle of a product consists of all the stages from raw material extraction through production and use to waste management. Life cycle assessment (LCA), then, is the assessment of the environmental impact of a product throughout its life cycle. The holistic perspective that LCA provides on the environmental performance of products has made it a central concept for both environmental management in industry and environmental policy-making in public government. This is a textbook on LCA for those who want to learn the practice of LCA, e.g. environmental engineers, environmental managers and eco-designers. The title paraphrases Douglas Adams' famous story 'The Hitch Hiker's Guide to the Galaxy', in which the machine Deep Thought after seven and a half million years of computing come up with '42' as the answer to the 'great Question of Life, the Universe and Everything'. Expectations on LCA are often similar - simple answer to difficult environmental dilemmas, and the result often as incomprehensible as 42, unless one knows how to interpret LCA methodology and results. The book is organised in three parts covering LCA methodology, LCA applications and exercises on LCA. Two introductory chapters give a general overview of the LCA concept and its historical development. After that, LCA methodology is described in detail in six chapters. Different fields of LCA application are covered in five subsequent chapters. Since the aim of the book is to teach the execution of LCA, there are also a number of exercises. Smaller exercises train different aspects of LCA methodology and prepare for the larger ones, ten complete LCA exercise projects.

Life Cycle Assessment of Wastewater Treatment addresses in detail the required in-depth life cycle assessment of wastewater treatment. This is to meet the special demands placed upon

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wastewater treatment processes, due to both the limited quantity and often low quality of water supplies. Wastewater management clearly plays a central role in achieving future water security in a world where water stress is expected to increase. Life cycle assessment (LCA) can be used as a tool to evaluate the environmental impacts associated with wastewater treatment and potential improvement options. This unique volume will focus on the analysis of wastewater treatment plants (WWTPs), using a life cycle assessment (LCA) approach.

The purpose of this book is to collect a high-quality selection of contemporary research articles on life cycle perspectives when we want to assess and predict the sustainability of solutions that lie in front of us. The book focuses on methodologies and tools used for life cycle sustainability management covering environmental, social, and economic aspects in business practices, including modeling and simulation-based approaches. In particular, the book aims to collect research, applications, and case studies in the field of environmental analysis and industrial ecology, with a focus on how to assess contributions to increase resource efficiency and reduce environmental impact on production and service systems in a life cycle perspective (raw material extraction, production, use, and end-of-life management). This book is intended to be a useful resource for anyone who deals with this issue.

This book highlights the Social Life Cycle Assessment (SLCA) of the energy and textile sectors. It also presents a range of models, indices, impact categories, etc. for SLCA that are currently being developed for industrial applications. Though SLCA was introduced in 2010, it is still relatively new compared to environmental life cycle assessment (ELCA).

The Guidelines for Social Life Cycle Assessment of Products provides a map, a skeleton and a flash light for stakeholders engaging in the assessment of social and socio-economic impacts

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of products life cycle. The map describes the context, the key concepts, the broader field in which tools and techniques are getting developed and their scope of application. The skeleton presents key elements to consider and provide guidance for the goal and scope, inventory, impact assessment and interpretation phases of a social life cycle assessment. The flash light highlights areas where further research is needed. Social Life Cycle Assessment is a technique available to account for stories and inform systematically on impacts that otherwise would be lost in the vast and fast moving sea of our modern world. May it help stakeholders to effectively and efficiently engage to improve social and socio-economic conditions of production and consumption

Dipl.-Geoecol. Tabea Beck, Dipl.-Geoecol. Ulrike Bos and Dipl.-Ing. Bastian Wittstock are working at IBP-GaBi on the integration of land use aspects into LCA for several years and are members of international working groups and projects on this topic. They all have been involved in the development of the LANCA tool and in the conduction of respective case studies. Dr.-Ing Martin Baitz has initially developed the method on which LANCA is based during his time at LBP / IBP-GaBi. Today he is Director Process and Material Sustainability at PE INTERNATIONAL. Dipl.-Ing. Matthias Fischer is Head of the Department Life Cycle Engineering; Prof. Dr.-Ing. Dipl. Phys. Klaus Sedlbauer is Director of the Fraunhofer Institute for Building Physics and professor at the University of Stuttgart, Chair of Building Physics.

An increasing number of agencies, academic institutes, and governmental and industrial bodies are embracing the principles of sustainability in managing their activities. Life Cycle Assessment (LCA) is an approach developed to provide

decision support regarding the environmental impact of industrial processes and products. LCA is a field with ongoing research, development and improvement and is being implemented world-wide, particularly in the areas of pavement, roadways and bridges. Pavement, Roadway, and Bridge Life Cycle Assessment 2020 contains the contributions to the International Symposium on Pavement, Roadway, and Bridge Life Cycle Assessment 2020 (Davis, CA, USA, June 3-6, 2020) covering research and practical issues related to pavement, roadway and bridge LCA, including data and tools, asset management, environmental product declarations, procurement, planning, vehicle interaction, and impact of materials, structure, and construction. Pavement, Roadway, and Bridge Life Cycle Assessment 2020 will be of interest to researchers, professionals, and policymakers in academia, industry, and government who are interested in the sustainability of pavements, roadways and bridges.

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.

Life-Cycle Assessment presents a brief overview of the development of the life-cycle assessment process and develops guidelines and principles for implementation of a product life-cycle inventory analysis. The book describes inventory analysis, impact analysis, and improvement analysis-the three components of a product life-cycle assessment. It discusses the major stages in a life cycle, including raw materials acquisition, materials manufacture, final product fabrication, filling/packaging/distribution, and consumer use and disposal. 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. 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.

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 first book of its kind, the LCA Handbook 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.

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

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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.

Environmental Life Cycle Assessment is an introductory college level textbook on the science of Life Cycle Assessment. It provides materials for a full year of study. Over thirty LCA experts were brought together by the American Center for Life Cycle Assessment, with full redundant editing to provide a consistent and comprehensive coverage of this broad field of study. Exercises are provide for each topic, covering everything from the nuts and bolts of the science to issues such as ethics and communication. Students using this textbook need only practical experience (as can be provided in lab courses) to be able to sit the exam for Life Cycle Assessment Certified Professionals.

Current LCA methodologies employed to assess the intensity of environmental impacts lack a regional view, even though the sensitivity of the receiving environment is important in determining the specific levels of risks. This book seeks to redress the balance and develop a globally applicable, affordable and feasible approach to determine differentiated sets of possible impacts with higher environmental burdens

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derived from food supply chain processes. To this end, the earth's land surface is divided into so-called "ecoregions", defined by their specific characteristics such as soil, climate, and topography/physiography, and associated with the relevant risks for each ecoregion. The use of ecoregions and respective environmental risks can help enterprises recognize the environmental effect of their products but also help improve the reliability of comparisons between LCA results in different regions.

On cover: Environmental.

A comparative life cycle assessment (LCA) of four major streetlight technologies (high-pressure sodium (HPS), metal halide (MH), induction, and light-emitting diode (LED) streetlights) was developed. The City Council of Pittsburgh may use the LCA in their decision to retrofit 40,000 HPS streetlights in an effort to save money and reduce greenhouse gas emissions. Data was collected from manufacturers participating in a streetlight retrofit pilot program, government sponsored studies, industry sources, and lighting professionals. The hybrid analysis modeled products in SimaPro and used the Tool for the Reduction and Assessment of Chemical and Other Environmental Impacts (TRACI) life cycle impact assessment method. The analysis concluded that LED and induction technologies offer the lowest environmental impacts. These technologies are currently similar in their impacts, but LED technology is improving more rapidly. It was found that the use phase impacts of the life cycle are at least ten times more significant than the manufacturing phase. However, data collection difficulties restricted the amount

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of modeling that could be done. It is recommended that companies involved in a pilot program also provide useful LCA data with their lights.

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. 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

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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

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for any engineer, manager, or policy-maker wishing to learn about LCA.

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