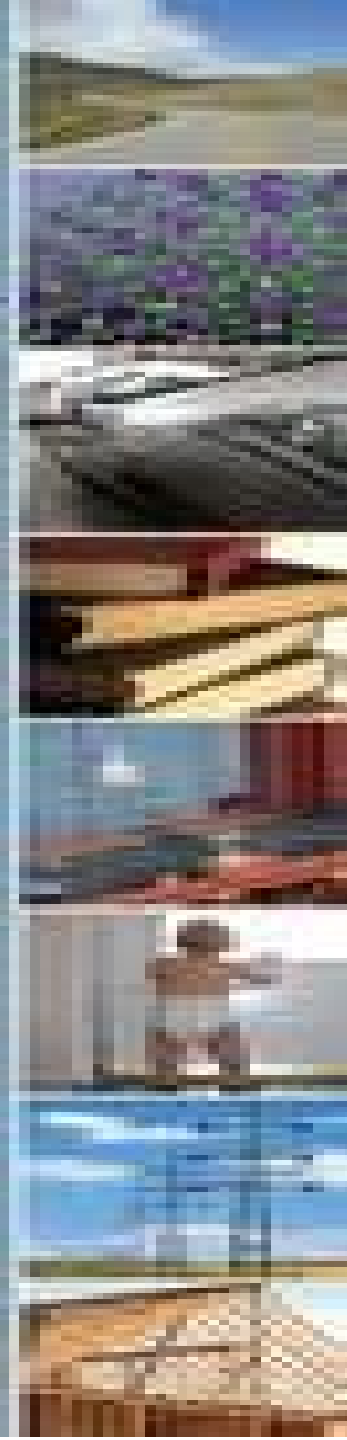


Environmental Life Cycle Assessment of Goods and Services

An Input-Output Approach



**Chris T. Hendrickson
Lester B. Lave
H. Scott Matthews**



Environmental Life Cycle Assessment Of Goods And Services An Input Output Approach

T. E. Graedel, E. van der Voet



Environmental Life Cycle Assessment Of Goods And Services An Input Output Approach:

Environmental Life Cycle Assessment of Goods and Services Chris T. Hendrickson, Lester B. Lave, H. Scott Matthews, 2010-09-30 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 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.

Sustainability Challenges in the Agrofood Sector Rajeev Bhat, 2017-02-08 *Sustainability Challenges in the Agrofood Sector* covers a wide range of agrofood-related concerns, including urban and rural agriculture and livelihoods, water, energy, management, food, and environmental policies, diet, and human health. Significant and relevant research topics highlighting the most recent updates will be covered, with contributions from leading experts currently based in academia, government bodies, and NGOs. See list of contributors below. Chapters will address the realities of sustainable agrofood, the issues and challenges at stake, and will propose and discuss novel approaches to these issues. This book will be the most up-to-date and complete work yet published on the topic, with new and hot topics covered as well as the core aspects and challenges of agrofood sustainability.

Introduction to Sustainability Analytics Raghavan (Ram) Ramanan, 2018-07-04 The roles of corporate and public stewards and the nature of their social contract with society have been changing over the past two centuries, and those changes have accelerated in recent decades. Moreover, with increasing focus on sustainability factors from the marketplace, regulators, investors, financiers, and consumers, corporate sustainability disclosure is shifting from voluntary to vital. Corporate and public stewards are now responsible for their performance and services from cradle to grave; they must properly manage corporate social responsibility and integrate it into their global strategies rather than consider it as merely a moral obligation or a risk/reputation management exercise. Sustainability analytics, the critical link between sustainability and business strategy, helps professionals track trends and transform sustainability information into

actionable insights across the value chain and life cycle to enhance their sustainability performance and its disclosure This book Introduction to Sustainability Analytics provides corporate and public stewards with a comprehensive understanding of how to determine which sustainability metrics are material to them and relevant to their business and how to incorporate them into corporate strategy resource allocation and prioritization Focusing on practical decision making needs it explains how to value and prioritize initiatives and how to best allocate necessary resources through several real case studies and practical examples Features Examines pressing issues such as climate change water scarcity and environmental justice Explains how to develop a business case and global strategy for social responsibility Includes both corporate and public policy perspectives on sustainability economics Covers emerging regulations on sustainability disclosure and responsible investing

Fundamentals of Environmental Chemistry, Third Edition Stanley E. Manahan, 2009 This text expands its scope to explore the emerging area that is described as sustainability science and technology which includes green chemistry and industrial ecology It is designed for those who have little or no knowledge of chemistry but who need the basics of chemical science for their course of study or profession

Environmental Assessment of Office Buildings Pedro Miguel dos Santos Vieira, 2007

Retail Climate Change Mitigation Árpád Horváth, 2012

Environmental Management Accounting and Supply Chain Management Roger L. Burritt, Stefan Schaltegger, Martin Bennett, Tuula Pohjola, Maria Csutora, 2011-05-19 This volume's focus on the environmental accounting of supply chain processes is of particular relevance because these processes supply data about the environmental impact of relationships between business organisations an area where the boundary separating internal and external accounting is ill defined Here contributors advocate what they term accounting for cooperation as a more environmentally positive complement to the paradigmatic practice of accounting for competition

Journal of the Air & Waste Management Association, 2008

Sustainable Building Materials and Materials for Energy Efficiency Mohammad Arif Kamal, 2015-07-03 Special topic volume with invited peer reviewed papers only

Design for Environment, Second Edition Joseph Fiksel, 2011-08-05 Proven methods for achieving environmental excellence while increasing profitability If your goal is to design and develop environmentally sustainable products that also drive shareholder value then this book is a must read Stuart L Hart S C Johnson Chair in Sustainable Global Enterprise Cornell University A comprehensive and inspiring guide that provides a powerful case for integration of environmental principles into product development Essential reading for any organization putting DFE into practice Ken Strassner Vice President Global Environment Safety Regulatory and Scientific Affairs Kimberly Clark Corporation Joseph Fiksel has produced a masterful book that not only powerfully argues for Design for Environment but also provides the roadmap and real life examples that prove the point This book arrives not a moment too soon for a stressed planet Industry has the opportunity to re think how we design produce sell and dispose of products and this book provides the tools and best practices to accomplish a new and improved way of doing business Jim Thomas Vice President Corporate Social Responsibility JCPenney A must read for all

practitioners of a Design for Environment approach This book makes the most compelling case yet for taking a more integrated and holistic approach to DFE the bottom line Green initiatives must increase profitability to be truly sustainable and Dr Fiksel provides the blueprint for how global companies are enhancing profits and winning in the marketplace by designing their way to competitive advantage Jim Lime Vice President Environment Health Safety ConAgra Foods At a time when many companies are wrestling with the challenges of energy and environmental management Design for Environment provides a unique resource a clear and comprehensive guide to the tools and best practices that are essential for any business that aspires to be sustainable Innovation will be the key to addressing global climate change and assuring future prosperity and this book illuminates the path forward Dennis Welch Executive Vice President Environment Safety Health and Facilities American Electric Power The book offers important industry perspectives on how companies develop and design innovative solutions to complex environmental and societal challenges It goes well beyond theory offering case studies with quantifiable results that illustrate how companies can save money while improving the environment and helping local communities It shows how companies of all types are using resources more efficiently sometimes by teaming up with other industries to achieve results that balance the triple bottom line of people planet and prosperity This richly detailed study should be of great interest to industry leaders policymakers scholars and students alike We are all fortunate to have Joseph Fiksel working on sustainable development Andy Mangan Executive Director U S Business Council for Sustainable Development Based on successful green strategies practiced at dozens of major corporations Design for Environment Second Edition offers a business rationale for developing sustainable products and processes as well as a comprehensive toolkit for practicing Design for Environment DFE in the context of product life cycle management Insights on how DFE can be seamlessly integrated into existing business practices are also included This unique resource reveals how environmental innovation creates business value and helps companies to meet global energy and environmental challenges Features in depth case studies of DFE applications by industry leaders such as Alcoa American Electric Power Caterpillar Coca Cola ConAgra Foods Dow Chemical Company DuPont Eli Lilly Ford Motor Company General Motors Hewlett Packard Intel JCPenney Johnson Johnson Kimberly Clark McDonald s Owens Corning Patagonia 3M Company Xerox

Citizen Engineer

Dave Douglas, Gregory Michael Papadopoulos, John Boutelle, 2010 Engineers create many of the inventions that shape our society and as such they play a vital role in determining how we live This new book does an outstanding job of filling in the knowledge and perspective that engineers must have to be good citizens in areas ranging from the environment to intellectual property to ensuring the health of the innovation ecosystem that has done so much for modern society This is exactly the sort of book that engineers and those who work with them should read and discuss over pizza coffee or some other suitable discussion provoking consumable John L Hennessy president Stanford University Citizen Engineer is the bible for the new era of socially responsible engineering It s an era where as the authors show engineers don t just need to know

more they need to be more The work is an inspiration an exhortation and a practical how to guide All engineers concerned with the impact of their work and that should be all engineers must read this book Hal Abelson professor of computer science and engineering MIT Code is law Finally a map to responsible law making This accessible and brilliant book should be required of every citizen and especially the new citizen lawmakers we call engineers Lawrence Lessig director Safra Center for Ethics Harvard University and cofounder Creative Commons Being an engineer today means being far more than an engineer You need to consider not only the design requirements of your projects but the full impact of your work from an ecological perspective an intellectual property perspective a business perspective and a sociological perspective And you must coordinate your efforts with many other engineers sometimes hundreds of them In short we ve entered an age that demands socially responsible engineering on a whole new scale The era of the Citizen Engineer This engaging and thought provoking book written by computer industry luminaries David Douglas and Greg Papadopoulos focuses on two topics that are becoming vitally important in the day to day work of engineers eco engineering and intellectual property IP Citizen Engineer also examines how and why the world of engineering has changed and provides practical advice to help engineers of all types master the new era and start thinking like Citizen Engineers [Life Cycle Assessment Handbook](#) Mary Ann Curran,2012-11-07 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

Life Cycle Assessment Student Handbook Mary Ann Curran, 2015-06-29 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

Assessment of Household Carbon Footprint Reduction Potentials, 2009

Balancing Greenhouse Gas Budgets Benjamin Poulter, Joseph Canadell, Daniel Hayes, Rona Thompson, 2022-05-09 *Balancing Greenhouse Gas Budgets* Accounting for Natural and Anthropogenic Flows of CO₂ and other Trace Gases provides a synthesis of greenhouse gas budgeting activities across the world Organized in four sections including background methods case studies and opportunities it is an interdisciplinary book covering both science and policy All environments are covered from terrestrial to ocean along with atmospheric processes using models inventories and observations to give a complete overview of greenhouse gas accounting Perspectives presented give readers the tools necessary to understand budget activities think critically and use the framework to carry out initiatives Written by a combination of experts across career stages presenting an integrated perspective for graduate students and professionals alike Includes sections authored by those involved in both early and later IPCC assessments Provides an interdisciplinary resource that spans many topics and methodologies in oceanic land and atmospheric processes **ITF**

Round Tables Biofuels International Transport Forum,2008-03-26 The papers published in this report examine the economics of biofuels and assess the potential of conventional biofuel production in OECD countries Brazilian ethanol exports and some second generation biofuels to supply world markets with transport fuels

Comprehensive Energy Systems Ibrahim Dincer,2018-02-07 Comprehensive Energy Systems Seven Volume Set provides a unified source of information covering the entire spectrum of energy one of the most significant issues humanity has to face This comprehensive book describes traditional and novel energy systems from single generation to multi generation also covering theory and applications In addition it also presents high level coverage on energy policies strategies environmental impacts and sustainable development No other published work covers such breadth of topics in similar depth High level sections include Energy Fundamentals Energy Materials Energy Production Energy Conversion and Energy Management Offers the most comprehensive resource available on the topic of energy systems Presents an authoritative resource authored and edited by leading experts in the field Consolidates information currently scattered in publications from different research fields engineering as well as physics chemistry environmental sciences and economics thus ensuring a common standard and language

Linkages of Sustainability T. E. Graedel,E. van der Voet,2010 In this book experts engage in an extended dialogue arguing for a comprehensive view of sustainability They emphasize the constraints imposed by the relationships among the components for example how the need for clean easily accessible water intersects with the need for the energy required to provide it This book urges a transformation in the way we view sustainability a transformation that is necessary if we are to plan responsibly for a more sustainable world book jacket

The Sustainability Practitioner's Guide to Input-output Analysis Joy Murray,Richard Wood,2010 Provides an introduction to input output analysis for sustainability practitioners and looks into the how of measuring our impacts tracking our progress and informing the decisions for a sustainable future

Web-based Green Products Life Cycle Management Systems Hsiao-Fan Wang,2009-01-01 Despite being a relatively new field of research and development green management has drawn much attention from researchers and practitioners Facing critical impacts to its environment a strategic change to integrate supply chain management on green products needs a solid base for decision making Web Based Green Products Life Cycle Management Systems Reverse Supply Chain Utilization provides a comprehensive review of current and potential research in green management and control A unique collection in the growing field of green products this book is a must have for new and experienced researchers as well as practitioners and academicians alike

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