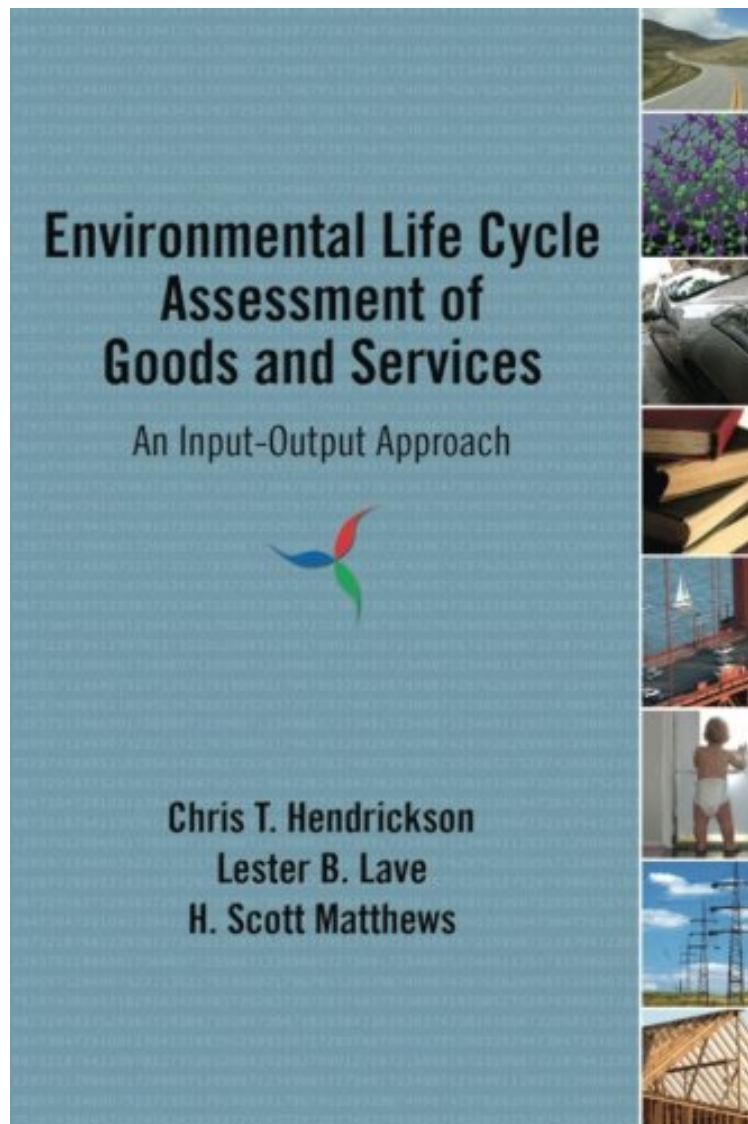


Environmental Life Cycle Assessment of Goods and Services: An Input-Output Approach

Chris T. Hendrickson, Lester B. Lave, H. Scott Matthews
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A good resource text, but the LCA, LCCA tools are loose and not well contrasted. Very confusing on those topics. Nice support of the EIO-LCA tool, which seriously needs to be updated. Consider using EPA.gov data, which has similar tools for energy life-cycle calculations. 0 of 0 people found the following review helpful. Great book and helpful infos
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Great book and helpful infos! Good presentation and showing the Best Practice in main domains! Thank You! I recommend this book to everyone who need to deepen their knowledge and practice in LCA

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.

'[This book] is sure to find its place on the shelf of both specialists and generalists interested in knowing more about the potential for life cycle analysis - and its variant EIO-LCA - to advance the rationalization of decisionmaking in the sustainable development context.' Inside Green Business
About the Author
Chris T. Hendrickson is the Duquesne Light Company Professor of Engineering, head of the Department of Civil and Environmental Engineering, director of the Steinbrenner Institute for Environmental Engineering and Research, and co-director of the Green Design Institute at Carnegie Mellon University. Lester B. Lave is the Harry B. and James H. Higgins Professor of Economics in the Carnegie Mellon Tepper School of Business and co-director of both the Electricity Industry Center and the Green Design Institute at Carnegie Mellon University. H. Scott Matthews is the research director of the Green Design Institute and a faculty member in the departments of Civil and Environmental Engineering and Engineering and Public Policy at Carnegie Mellon University.