

Industrial Ecology, 2/E

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Description: For upper level courses in Industrial Ecology

This text addresses the increasing need for knowledge about the interactions between industry and environment with the ultimate goal of sustainability. With in-depth analysis of past, present, and future issues in industrial ecology, this book seeks to meet the needs of the product-design engineers who hold much of the future of industry-environment interactions in their hands, as well as the emerging discipline of 'sustainability scientists'.

Contents:

1. Humanity and Environment
2. The Industrial Ecology Concept
3. Technological Change and Evolving Risk
4. The Relevance of Biological Ecology to Technology
5. The Status of Resources

¹ Publications by Thomas E. Graedel in Int J LCA:

Int J LCA 7 (4) 219–224 (2002): Improving the Overall Environmental Performance of Existing Telecommunications Facilities

Int J LCA 7 (2) 95–102 (2002): Life Cycle and Matrix Analyses for Refined Oil in Japan

Int J LCA 2 (1) 25–31 (1997): Designing the Ideal Green Product: LCA/ SCLA in Reverse

Int J LCA 1 (2) 85–89 (1996): Weighted Matrices as Product Life Cycle Assessment Tools

6. Society and Culture
7. Governments, Laws, and Economics
8. Industrial Product Design and Development
9. Industrial Process Design and Operation
10. Choosing Materials
11. Designing for Energy Efficiency
12. Product Delivery
13. Environmental Interactions During Product Use
14. Design For End of Life
15. An Introduction to Life-Cycle Assessment
16. The LCA Impact and Interpretation Stages
17. Streamlining the LCA Process
18. Using the Corporate Industrial Ecology Toolbox
19. Managing Industrial Ecology in the Corporation
20. Indicators and Metrics
21. Services, Technology, and Environment
22. Industrial Ecosystems
23. Metabolic and Resource Analysis
24. Systems Analysis, Models, and Scenario Development
25. Earth Systems Engineering and Management
26. The Future of Industrial Ecology
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- Appendix B: Units of Measurement in Industrial Ecology
- Glossary
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