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Nota di contenuto	Machine generated contents note: ; 1. The Need for Greenhouse Gas Analyses in Industrial Sectors / Charles Mbohwa -- ; 1.1. Introduction -- ; 1.2. Decomposition Method -- ; 1.3. Applications of Logarithmic Mean Divisia Index -- ; 1.4. Conclusion -- References -- ; 2. Booming and Stagnation of Spanish Construction Sector Through the Extended Carbon Footprint Concept / Luis A. Lopez -- ; 2.1. Introduction -- ; 2.2. Methodology and Database -- ; 2.3. Main Results -- ; 2.4. Conclusions -- Acknowledgment -- References -- ; 3. The Environmental Impact of Magnetic Nanoparticles Under the Perspective of Carbon Footprint / Maria T. Moreira -- ; 3.1. Introduction -- ; 3.2. Materials and Methods -- ; 3.3. Environmental Results -- ; 3.4. Conclusions -- Acknowledgments -- References -- ; 4. Carbon Footprint of Municipal Solid Waste Considering Selective Collection of Recyclable Waste / Glaydston M. Ribeiro -- ; 4.1. Introduction -- ; 4.2. Logistic Chain of Recyclable Waste -- ; 4.3. Brazilian Waste Management Outlook -- ; 4.4. Case Study -- ; 4.5. Applied Carbon Footprint Methodology -- ; 4.6. Results and Discussion -- ; 4.7. Conclusions -- Annex I -- Annex II -- References -- ; 5. Carbon

Footprint Analysis of Personal Electronic Product -- Induction Cooker / Karpagam Subramanian -- ; 5.1. Introduction -- ; 5.2. Methodology -- ; 5.3. Carbon Footprint Analysis -- ; 5.4. Life Cycle Inventory for Product Carbon Footprint -- ; 5.5. Life Cycle Impact Assessment of Product Carbon Footprint Analysis -- ; 5.6. Life Cycle Interpretation -- ; 5.7. Conclusion -- Appendix -- Acknowledgments -- References -- Further Reading -- ; 6. Carbon Footprint Analysis of a Selected Indian Power Plant / Debrupa Chakraborty -- ; 6.1. Introduction -- ; 6.2. Review of Literature -- ; 6.3. Goals and Objectives -- ; 6.4. Research Methodology and Data Sources -- ; 6.5. Results and Analysis -- ; 6.6. Conclusions -- Acknowledgments -- References -- Further Reading -- ; 7. Carbon Footprint in the Wine Industry / Sara Rinaldi -- ; 7.1. Introduction -- ; 7.2. The Wine Sector Worldwide -- ; 7.3. Available Literature and Existing Experiences Regarding Carbon Footprint Calculation -- ; 7.4. Carbon Footprint Methodology in the Wine Industry -- ; 7.5. Case Studies and Results -- ; 7.6. Conclusions -- References -- ; 8. Carbon Footprint of Aluminum Production: Emissions and Mitigation / Madhoolika Agrawal -- ; 8.1. Introduction -- ; 8.2. Aluminum Production -- ; 8.3. Carbon Footprints -- ; 8.4. Socioeconomic and Ecological Threats -- ; 8.5. Mitigation Strategies in Carbon Emissions Reduction -- ; 8.6. Conclusions -- Acknowledgments -- References -- ; 9. Carbon Footprint of Utility Consumption and Cleaning Tasks in Buildings / Madelyn Marrero -- ; 9.1. Introduction -- ; 9.2. System Boundaries -- ; 9.3. Methodology -- ; 9.4. Case Study -- ; 9.5. Results -- ; 9.6. Conclusions -- References -- ; 10. Greenhouse Gas Emissions From Coal Mining Activities and Their Possible Mitigation Strategies / Madhoolika Agrawal -- ; 10.1. Introduction -- ; 10.2. Types of Air Pollutants Due to Coal Mining -- ; 10.3. Coal Mining Contribution to Global Warming -- ; 10.4. Carbon Footprint for Coal Mining -- ; 10.5. Important Greenhouse Gas Inventory Calculations for Coal Mining -- ; 10.6. Case Studies -- ; 10.7. Strategies in Mitigating Carbon Emissions Reduction From Coal Mining -- ; 10.8. Conclusion -- Acknowledgments -- References -- ; 11. Life Cycle Assessment of an Academic Building: A Case Study / Varun Goel -- ; 11.1. Introduction -- ; 11.2. Life Cycle Analysis -- ; 11.3. Methodology -- ; 11.4. Case Study -- ; 11.5. Discussions -- ; 11.6. Conclusions -- Acknowledgments -- References -- Further Reading -- ; 12. The Role of Demand-Side Management in Carbon Footprint Reduction in Modern Energy Services for Rural Health Clinics / Tolulope J. Akin-Adeniyi -- ; 12.1. Demand-Side Management -- Appendices -- References -- ; 13. Carbon Footprint Analysis of Printed Circuit Board / Karpagam Subramanian -- ; 13.1. Introduction -- ; 13.2. Methodology -- ; 13.3. Carbon Footprint Analysis -- ; 13.4. Life Cycle Inventory for Product Carbon Footprint -- ; 13.5. Product Carbon Footprint Analysis -- ; 13.6. Life Cycle Interpretation -- Appendix 1 -- Appendix 2 -- Appendix 3 -- Acknowledgments -- References -- Further Reading.

Sommario/riassunto

This book provides industrial carbon footprint case-studies, and includes background information, scientific consensus, methodology, assessment, calculation tools, applications, challenges and limitations.