



Carbon Footprint Analysis: Concepts, Methods, Implementation, and Case Studies (Industrial Innovation Series)

By Matthew John Franchetti, Defne Apul

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The negative impacts of carbon emissions from human activities continue to dramatically reshape the environmental, political, and social landscape. These impacts coupled with cap and trade schemes iterate the importance and need to properly measure and reduce greenhouse gas emissions. **Carbon Footprint Analysis: Concepts, Methods, Implementation, and Case Studies** provides up-to-date technical information and practical guidance on measuring and reducing energy and GHG emissions. Presenting a comprehensive framework for carbon management, this book:

- Provides definitions, concepts, benefits, and background information regarding carbon footprint analyses
- Discusses the GHG accounting methods
- Outlines the general systems framework for conducting an audit
- Features four case studies in higher education, service, and manufacturing organizations

The book includes detailed discussions of the concepts and explains how the different concepts fit together. It supplies *the necessary background as well as systematic tools and procedures for organizations to measure and reduce their carbon footprints and begin to adapt to a carbon-constrained world.*

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Editorial Review

Review

"... the first comprehensive engineering and technically based treatment of all the associated issues in one book. ... will have a wide appeal not only among students and teachers, but also among technocrats, industrialists, researchers, and government policy makers. ... written by authors who are technically competent in the field and they combine theory and practice in presenting a case for carbon footprint reduction."

?Adedeji Badiru, Air Force Institute of Technology, Beavercreek, Ohio, USA

"Carbon emissions represent a major environmental impact of any institution. This book provides practical guidance for the calculation of an institution's carbon footprint, and will be of use to a wide audience."

?Jeffrey D. Corbin, Union College, Schenectady, New York, USA

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