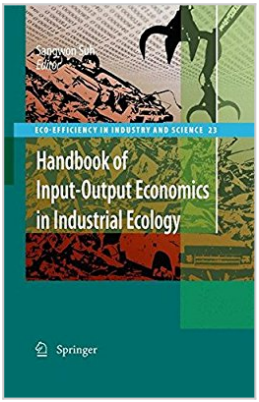

Handbook of Input-Output Economics in Industrial Ecology (Eco-Efficiency in Industry and Science)

From Sangwon Suh

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Industrial Ecology (IE) is an emerging multidisciplinary field. University departments and higher education programs are being formed on the subject following the lead of Yale University, The Norwegian University of Science and Technology (NTNU), Leiden University, University of Michigan at Ann Arbor, Carnegie Mellon University, University of California at Berkeley, Institute for Superior Technology in Lisbon, Eidgenössische Technische Hochschule (ETH) Zürich, and The University of Tokyo. IE deals with stocks and flows in interconnected networks of industry and the environment, which relies on a basic framework for analysis.

Among others, Input-Output Analysis (IOA) is recognized as a key conceptual and analytical framework for IE. A major challenge is that the field of IOA manifests a long history since the 1930s with two Nobel Prize Laureates in the field and requires considerable analytical rigor. This led many instructors and researchers to call for a high-quality publication on the subject which embraces both state-of-the-art theory and principles as well as practical applications.

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Editorial Review

From the Back Cover

"Handbook of Input-Output Economics in Industrial Ecology" covers an array of topics including the history of industrial ecology and input-output economics, material flow analysis, LCA, sustainable consumption, policy applications, energy and climate change, waste management, national accounts and statistics, and new developments in modeling and theory. Particularly, this handbook is designed to offer a comprehensive coverage on three major issues: (1) theory and method of key analytical tools and models; (2) fundamental accounting principles and compilation of basic data; and (3) practical applications of the tools and models at various scales. First, various analytical tools and modeling techniques that are of particular importance to industrial ecology applications are comprehensively treated in this handbook, which includes hybrid models for LCA, Material Flow Analysis (MFA) and energy analysis; physical and hybrid-unit IO models; Waste IO model; multi-regional IO models; dynamic IO model; thermodynamic analysis; linear programming and optimization techniques; graph theory and network analysis; use of scenarios; and Structural Decomposition Analysis (SDA). Second, basic accounting frameworks and compilation of required data for these analytical tools and models are shown, which covers e.g., the supply-use framework, resources accounts, time-use survey, Social Accounting Matrices (SAMs), compilation of environmental IO databases of Japan (3EID) and the U.S. (CEDA). Third, use of these data, tools and models for micro-, meso-, as well as macro-scale applications are presented throughout the chapters. Readers will also notice the difference in mode of writing in some chapters: for instance, some are written more as a practical and instructive guide (e.g., the step-by-step approaches for net energy analysis of Chapter 24) and some are done more as a theoretical contribution (e.g., the multistage process-based make-use system of Chapter 35).

"Handbook of Input-Output Economics in Industrial Ecology" can serve as a one-stop reference book for both industrial ecologists and input-output economists who are exploring the other discipline. This handbook would be particularly useful for those who study LCA, energy and climate change policy, environmental product policy and sustainable consumption.

Users Review

From reader reviews:

Kelly Neidig:

Why don't make it to be your habit? Right now, try to ready your time to do the important action, like looking for your favorite publication and reading a publication. Beside you can solve your condition; you can add your knowledge by the book entitled Handbook of Input-Output Economics in Industrial Ecology (Eco-Efficiency in Industry and Science). Try to make book Handbook of Input-Output Economics in Industrial Ecology (Eco-Efficiency in Industry and Science) as your close friend. It means that it can to be your friend when you sense alone and beside those of course make you smarter than ever. Yeah, it is very fortuned in your case. The book makes you more confidence because you can know everything by the book. So , let me make new experience as well as knowledge with this book.

Ann Bland:

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Samara Reed:

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Fred Miller:

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