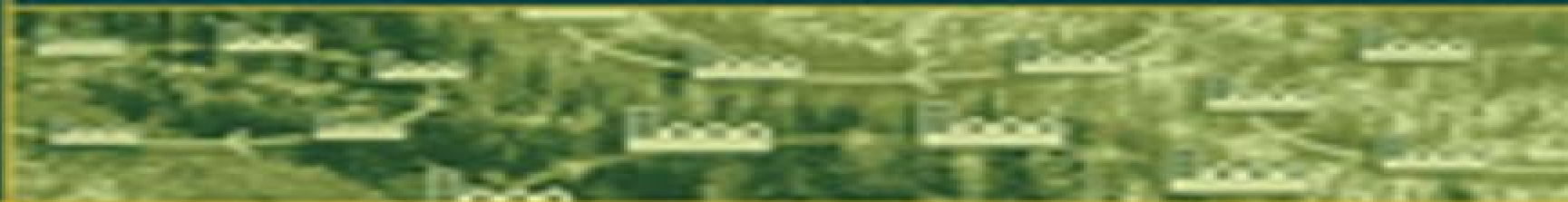


Perspectives on Industrial Ecology

with a foreword by President Jacques Chirac



edited by DOMINIQUE BOUREG and SUREN ERGUMAN

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Perspectives On Industrial Ecology

Thomas E Graedel, Matthew J Eckelman



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Perspectives on Industrial Ecology Dominique Bourg, Suren Erkman, 2017-09-29 Business as usual in terms of industrial and technological development even if based on a growing fear of pollution and shortages of natural resources will never deliver sustainable development. However, the growing interest in recent years in the new science of industrial ecology (IE) and the idea that industrial systems should mimic the quasi-cyclical functions of natural ecosystems in an industrial food chain holds promise in addressing not only short-term environmental problems but also the long-term holistic evolution of industrial systems. This possibility requires a number of key conditions to be met, not least the restructuring of our manufacturing and consumer society to reduce the effects of material and energy flows at the very point in history when globalisation is rapidly increasing them. This book sets out to address the theoretical considerations that should be made implicit in future research as well as practical implementation options for industry. The systematic recovery of industrial wastes, the minimisation of losses caused by dispersion, the dematerialisation of the economy, the requirement to decrease our reliance on fuels derived from hydrocarbons and the need for management systems that help foster inter-industry collaboration and networks are among the topics covered. The book is split into four sections. First, the various definitions of IE are outlined. Here, important distinctions are made between industrial metabolism and IE. Second, a number of different industrial sectors, including glass, petroleum and electric power, are assessed with regard to the operationalisation of industrial ecology. Eco-industrial Parks and Networks are also analysed. Third, the options for overcoming obstacles that stand in the way of the closing of cycles, such as the separation and screening of materials, are considered, and finally, a number of implications for the future are assessed. The contributions to *Perspectives on Industrial Ecology* come from the leading thinkers working in this field at the crossroads between a number of different disciplines: engineering, ecology, bio-economics, geography, the social sciences and law.

International Perspectives on Industrial Ecology Pauline Deutz, Donald I. Lyons, Jun Bi, 2015-10-30 With its high-level focus on industrial ecology-related policies such as circular economy and industrial symbiosis, this book provides a timely analysis of the industrial ecology experience worldwide. Editors Pauline Deutz, Donald I. Lyons, and Jun Bi combine their diverse experiences in both research and teaching to examine the topic as a business community and academic endeavor in different settings worldwide. *International Perspectives on Industrial Ecology* provides a cutting-edge, in-depth exploration of the commonalities and differences of industrial ecology experiences, comparing geographical contexts from each of the world's continents. Expert contributors utilize case studies and contextualized reviews of current projects to formulate invaluable insights in the field. Much attention is given to industrial symbiosis, waste management, circular economy, sustainable development, and environmental management as each pertains to the field. This book's international perspective makes it ideal background reading for academics working in industrial ecology as well as a valuable reference for postgraduates doing research or taking courses in the field. Public or private sector bodies

trying to facilitate industrial symbiosis economic development agencies considering industrial symbiosis projects and environmental managers and regulators trying to improve environmental performance in their particular country will also find it engaging and relevant Managing a Material World Pier Vellinga, Frans Berkhout, Joyeeta Gupta, 1998-06-30 At the end of the 20th century the question of how to meet human needs and preferences while safeguarding the environment is a concern facing humanity This text reflects the thinking on the necessary concepts tools and instruments that are likely to help producers consumers and governments **Managing a Material World**, 1998 *Industrial Ecology And Sustainability: A Textbook For Students* Thomas E Graedel, Matthew J Eckelman, 2025-04-29 The field of industrial ecology is evolving rapidly and its tools and foundational concepts underpin many areas of sustainability in business and policy Industrial ecology provides a systemic understanding of material and energy flows that is vital as limits in materials availability limited recycling increased demand for the quantification of environmental impact and concern about future sustainability rise rapidly This volume focuses on core topics of industrial ecology and is designed as an accessible introduction for students around the world studying sustainability at a time of rapid changes in technology and the environment Written by world renowned experts the book is suitable for students and professionals interested in the field *Industrial Ecology and the Automobile* T. E. Graedel, Braden R. Allenby, 1998 Using the automobile as a case study of one of the industries most attuned to the concept of industrial ecology i e the means by which humanity can deliberately and rationally approach and maintain a desirable carrying capacity given continued economic cultural and technological evolution this text provides a general introduction to how to design for environment a key component of the repertoire of the 21st century engineer Although the focus throughout is on the automobile the concepts suggestions and insights are appropriate to all of technology The International Handbook on Environmental Technology Management Dora Marinova, David Annandale, John Phillimore, 2008-01-01 This is an excellent textbook suitable as a core text for environmental engineers and environmental scientists but equally it should in my opinion be compulsory reading for all researchers practitioners and policy makers regardless of their discipline because it has relevance for all In fact the book is so lively and understandable that everyone and anyone could and should read it Clearly written by a team of recognised environmental authors drawn from around the world it guides the reader through current thinking on the tools and techniques industry As an academic it is a delight to find a book to recommend that I know students will enjoy and one which addresses so many different elements of a diversity of university courses while covering the most important areas of environmental technology and management I am certainly using it to enhance and update the content of some of my own lectures Susan Haile International Journal of Sustainable Engineering This substantial collection draws together a very wide variety of literatures and practices I would expect this book to be a popular purchase by academic libraries principally as a core text R D Management This stunning Handbook is an excellent tool for environmental manager and environmental officer alike It is

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The Social Embeddedness of Industrial Ecology Frank Boons, Jennifer A. Howard-Grenville, 2009-01-01 From its inception the field of industrial ecology has taken a distinctly technological approach to understanding and improving ecological consequences of industrial activities Increasingly however scholars and practitioners are developing perspectives on the social embeddedness of industrial ecology the ways in which material and energy flows in regions and product chains are shaped by the social context in which they occur This book presents empirical work addressing how cognitive cultural political and structural mechanisms condition the emergence and operation of industrial ecology Further exploring such mechanisms holds promise for understanding both the barriers to and opportunities for altering the ecological impacts of industrial practice Through contemplative chapters and intermezzos authors with different disciplinary backgrounds reflect on the contribution of work from various social sciences to industrial ecology Unique to the volume the authors of the commentaries bring in their personal and professional experiences reflecting on how they have engaged in or have seen the value in cross disciplinary work They also include discussion explicitly on the dialogue and its value to the evolution of the field In these ways the book develops the dialogue between social science contributors and researchers from other disciplines within the field of industrial ecology Scholars and students involved in the study of industrial ecology and related fields as well as practising managers and those involved in facilitating industrial ecology projects around the world will find this engaging and comprehensive volume indispensable

Industry and Environment, 2004 *Elgar Encyclopedia of Ecological Economics* Emilio Padilla Rosa, Jesús Ramos-Martín, 2023-09-06 With diverse contributions from over 100 authors around the globe this comprehensive Encyclopedia summarises the developments of ecological economics from the fundamental contributions to the more recent methodological debates in the field It provides an expansive list of topics including sustainable development the limits to growth agroecology implications of

thermodynamic laws for economics integrated ecologic economic modelling valuation of natural resources and services and renewable and non renewable resources management This title contains one or more Open Access chapters

Understanding industrial ecology from a biological systems perspective Braden R. Allenby, William E. Cooper, 1994

Industrial Symbiosis for the Circular Economy Roberta Salomone, Andrea Cecchin, Pauline Deutz, Andrea Raggi, Laura Cutaia, 2020-02-07 The book is designed to help public and private decision makers and academics deepen their knowledge and understanding of the contexts obstacles and challenges of a variety of business types involved in Industrial Symbiosis and Circular Economy practices Industrial Symbiosis is reported in the Action Plan on the Circular Economy developed by the European Commission in 2015 COM 2015 0614 final and in its revision of 14 March 2017 but relatively little is known of how these practices start develop or fail and mutate in a rapidly changing context Including selected contributions presented at the 24th ISDRS 2018 Conference Actions for a Sustainable World from theory to practice in the two theme tracks 5c Circular economy zero waste innovation and 5g Industrial symbiosis networking and cooperation as part of industrial ecology this book offers a transdisciplinary perspective on real experiences of industrial symbiosis performed both by industries and the scientific community best practices success and unsuccessful cases implemented or under implementation with the final aim to promote the adoption of Industrial Symbiosis as an operational and systematic tool for the Circular Economy In particular a focus on the environmental social and economic impact of Circular Economy and Industrial Symbiosis practices and how those impacts may be context and or scale dependent is given

Business and the Sustainability Challenge Peter N. Nemetz, 2013-08-29 It is vitally important for businesses to have a holistic understanding of the many issues surrounding and shaping sustainability from competitors to government and political factors to economics and ecological science This integrated textbook for MBA and senior level undergraduates offers a comprehensive overview of the issues of sustainability as they relate to business and influence corporate strategy It also features a wide range of cases and an extensive discussion of tools to incorporate sustainability issues into strategic decision making helping instructors and students to build and then apply a solid understanding of sustainability in business

Greening the Industrial Facility Thomas Graedel, Jennifer Howard-Grenville, 2005-06-21 This textbook and reference fills a critical gap in literature on the comprehensive environmental impacts of industrial organizations Nineteen chapters examine individual industrial sectors inherent potential to pollute The text goes on to analyze new technologies and practices for transforming environmentally degrading effects of industry and shows how managers can navigate these changes and move their organizations towards long term environmental sustainability

Fundamentals of Environmental Chemistry, Third Edition Stanley E. Manahan, 2011-03-05 Written by an expert using the same approach that made the previous two editions so successful *Fundamentals of Environmental Chemistry Third Edition* expands the scope of book to include the strongly emerging areas broadly described as sustainability science and technology including green chemistry and industrial ecology The new edition

includes Increased emphasis on the applied aspects of environmental chemistry Hot topics such as global warming and biomass energy Integration of green chemistry and sustainability concepts throughout the text More and updated questions and answers including some that require Internet research Lecturers Pack on CD ROM with solutions manual PowerPoint presentations and chapter figures available upon qualifying course adoptions The book provides a basic course in chemical science including the fundamentals of organic chemistry and biochemistry The author uses real life examples from environmental chemistry green chemistry and related areas while maintaining brevity and simplicity in his explanation of concepts Building on this foundation the book covers environmental chemistry broadly defined to include sustainability aspects green chemistry industrial ecology and related areas These chapters are organized around the five environmental spheres the hydrosphere atmosphere geosphere biosphere and the anthrosphere The last two chapters discuss analytical chemistry and its relevance to environmental chemistry Manahan s clear concise and readable style makes the information accessible regardless of the readers level of chemistry knowledge He demystifies the material for those who need the basics of chemical science for their trade profession or study curriculum as well as for readers who want to have an understanding of the fundamentals of sustainable chemistry in its crucial role in maintaining a livable planet

Encyclopedia of Environmental Science and Engineering, Volumes One and Two James R. Pfafflin, Edward N. Ziegler, 2006-01-13 Completely revised and updated Encyclopedia of Environmental Science and Engineering Fifth Edition spans the entire spectrum of environmental science and engineering Still the most comprehensive authoritative reference available in this field the monumental two volume encyclopedia has expanded to include 87 articles on topics ranging from acid

Industrial Ecology Braden R. Allenby, 1999 For courses in engineering environmental science and economics This unique and important book takes a multidisciplinary approach to an integrated discussion of the issues related to industrial ecology and sustainable development

Comprehensive Environmental Science and Pollution Management EduGorilla Prep Experts, 2024-09-07 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels

Supply Chain Perspectives and Issues Albert Park, Gaurav Nayyar, Patrick Low, 2013 Global value chains GVCs have become ubiquitous The literature that attempts to understand and explain GVCs is vast multidisciplinary and no less complex than the phenomenon itself This volume is an ambitious attempt at a fairly comprehensive review of literature on the subject

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