

# **Economic Models of Material-Product Chains for Environmental Policy Analysis**

Patricia P.A.A.H. Kandelaars

# Economic Models Of Material Product Chains For Environmental Policy Analysis

**Christian G. Meyer**



## **Economic Models Of Material Product Chains For Environmental Policy Analysis:**

**Economic Models of Material-Product Chains for Environmental Policy Analysis** P.P. Kandelaars, 2013-11-21 A theoretical and empirical contribution to the quest for sustainability and environmental quality The book examines the physical and economic aspects of flows of materials and products as well as the policies and strategies designed to reduce the related resource depletion and environmental pollution The material product chain concept forms a general framework defined as a system of linked flows of materials and products that support the provision of a certain service Various economic models of material product chains are studied both theoretical and applied such as static optimisation dynamic simulation and general equilibrium models Applications to metals rain gutters and window frames are described Audience Readers in universities research organizations and policy institutes interested in the environment economics and government policy

**Heavy Metals: A Problem Solved?** E van der Voet, Jeroen B. Guinée, Helias A. Udo de Haes, 2013-04-17 Most publications on heavy metals and the environment have focused on environmental pathways and risks The present book establishes a link between the environmental risks of heavy metals and the societal causes of the risks Economic models substance flow models and environmental fate and risk assessment models have been integrated into a single analytical framework that has been used to trace and understand the routes by which four heavy metals enter the economy through to their final destination in the environment The long term impacts of the current metals management regime in the Netherlands have been used as a case study by which to assess the effectiveness of certain policy measures Readership Environmental scientists especially those practising in the areas of ecological economics industrial ecology materials flow accounting and integrated environmental assessment Environmental policy makers will also find the book an invaluable aid in their deliberations

**Economics of Industrial Ecology** Jeroen C. J. M. van den Bergh, Marco Janssen, 2004 Studies that integrate scientific technological and economic dimensions of industrial ecology and material flows The use of economic modeling techniques in industrial ecology research provides distinct advantages over the customary approach which focuses on the physical description of material flows The thirteen chapters of Economics of Industrial Ecology integrate the natural science and technological dimensions of industrial ecology with a rigorous economic approach and by doing so contribute to the advancement of this emerging field Using a variety of modeling techniques including econometric partial and general equilibrium and input output models and applying them to a wide range of materials economic sectors and countries these studies analyze the driving forces behind material flows and structural changes in order to offer guidance for economically and socially feasible policy solutions After a survey of concepts and relevant research that provides a useful background for the chapters that follow the book presents historical analyses of structural change from statistical and decomposition approaches a range of models that predict structural change on the national and regional scale under different policy scenarios two models that can be used to analyze waste management and recycling operations and adopting the perspective

of local scale an analysis of the dynamics of eco industrial parks in Denmark and the Netherlands The book concludes with a discussion of the policy implications of an economic approach to industrial ecology Recycling, International Trade and the Environment P.J. van Beukering,2013-03-09 During the last century international trade has become indispensable for many economies This is not only the case for trade in primary raw materials and consumer products but also for secondary recyclable materials With the rapid growth of the recycling sector worldwide trade in recyclables increased tremendously It is striking that most of this trade flows from developed to developing countries This book addresses the main causes of this typical trade pattern and investigates its economic and environmental effects by carrying out case studies on waste paper imports in India waste plastics imports in China and used tyre trade in Europe The book concludes by recommending policies that are aimed at preventing negative economic and environmental effects potentially resulting from trade in recyclables The book offers new ideas to researchers who are involved in international trade material flows and waste management and provides new insights for decision makers who are interested in WTO and the Basel Convention Handbook of Environmental and Resource Economics Jeroen C. J. M. Van den Bergh,2002-01-01 This major reference book comprises specially commissioned surveys in environmental and resource economics written by an international team of experts Authoritative yet accessible each entry provides a state of the art summary of key areas that will be invaluable to researchers practitioners and advanced students Rethinking Macroeconomics for Sustainability Alejandro Nadal,2011-01-13 Macroeconomic policies have devastating effects on the environment They shape the economic processes that drive deforestation soil erosion the exhaustion of living marine resources greenhouse gas emissions and the massive loss of biodiversity Despite this the vital connection between macroeconomic policies and the environment has thus far received little attention by the academic and the policy making communities Rethinking Macroeconomics for Sustainability reveals the linkages between monetary financial and fiscal policies and the environmental degradation that threatens the planet s biosphere In doing so it examines the complex lines of transmission from policy priorities all the way down to the effects at the local level as well as analyzing the deep seated relationship between macroeconomic policy models and their impacts on growth peoples livelihoods and the environment Besides exploring the relation between macroeconomic and climate change policies as well as efforts to green the world economy the book considers five key case studies in Latin American economies Going beyond this it also sets out specific policy recommendations both at the national and international levels All this is based on the incontrovertible premise that macroeconomic policies must to be redesigned in order to attain long term sustainability objectives and that monetary and fiscal policies are as important for environmental stewardship as they are for growth and prosperity *The Computational Structure of Life Cycle Assessment* R. Heijungs,Sangwon Suh,2013-04-17 Life Cycle assessment LCA is a tool for environmental decision support in relation to products from the cradle to the grave Until now more emphasis has been put on the inclusion quantitative models and databases and on the design of guidebooks for

applying LCA than on the integrative aspect of combining these models and data This is a remarkable thing since LCA in practice deals with thousands of quantitative data items that have to be combined in the correct manner For this one needs mathematical rules and algorithmic principles for carrying out an LCA This book presents the first coherent treatment of the mathematical and algorithmic aspects of LCA These computational aspects are presented in matrix form so that a concise and elegant formulation is achieved This form moreover provides a platform for further extension of analysis using perturbation theory structural theory and economic input output analysis

Climate Change and Sustainable Development  
Mohamed Abdel Rahim M. Salih, 2009-01-01 this book gives a good overview of major challenges facing policy makers researchers and ultimately humankind in dealing with climate change The reader also gets a good understanding of how fragmented and transversal the issues of climate change and sustainable development are Quarterly Journal of International Agriculture a unified useful and stimulating book which should act as a springboard for further work into what is a very topical and extremely important issue for everyone in the world not just academics and policymakers This book serves its intended audience but also deserves to be more widely read World Entrepreneurship Society Too often writings on climate change are placed into two categories climate change deniers and climate change supporters What this timely and insightful collection of Mohamed Salih s does is to problematise the issue taking the debate to a level where it desperately needs to be asking the thorny questions of how do the politics and international relations of climate impact upon the most vulnerable the least affluent the dwellers of the majority world In short Salih challenges us How did the climate change about climate change The responses of his contributors are salient to the point sometimes disturbing but always thought provoking Timothy Doyle Keele University UK Editing the proceedings of a symposium into a cogent and coherent book is no easy task This book a tribute to Professor Opschoor is no exception with disperse contributions of some highly acclaimed authors covering a wide spectrum of themes It is a credit to Professor Salih s insight to string them together in the introductory chapter and entice the reader to read on This book has food for thought on many fronts reaching far beyond climate change as did the oeuvre of Hans Opschoor an instructive read Paul Vlek Center for Development Research ZEF Bonn Germany It is difficult if not impossible to formulate and implement sustainable policy without first understanding the dynamic relationships between nature society economics and technology and research plays a pivotal role in this regard Climate Change and Sustainable Development is an important book which deals with these issues in the context of climate change and the changing global context of development It alerts us to the relationship climate change has with two urgent tasks poverty reduction and sustainable development which require efforts that span countries regions and communities In this interdependent world argue the authors a shared vision and common effort are vital to sustaining our life support system It is a must read Jacqueline Cramer The Netherlands Minister for Spatial Planning and the Environment This unique book provides cutting edge knowledge and analyses of the consequences that climate change will have for sustainable development and poverty

reduction within the context of global development Exploring alternative resource management approaches including federal resource management governance ecosystem services digital dematerialization ecological cities biofuels versus food and children and climate change this innovative volume provides fresh insights on the human condition with regards to the current debates on climate change The distinguished contributors examine climate change induced processes that present profound challenges to sustainable development and poverty reduction at the local national and global levels This groundbreaking study will be a welcome addition for graduate and post graduate students in development and environmental studies It will also have great appeal to scientists policy makers and researchers in these fields **Handbook of**

**Input-Output Economics in Industrial Ecology** Sangwon Suh, 2009-05-13 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 Eidgen ssische Technische Hochschule ETH Z rich 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 **The European Union's Eco-Management and**

**Audit Scheme (EMAS)** Michael S. Wenk, 2005-04-11 The European Union's Eco Management and Audit Scheme or EMAS has been in existence since 1995 with over 3 000 sites registered to the Scheme However even to the present day there exist very few texts which address the specific requirements of the standard and provide real world examples of the practical considerations companies and sites must contend with in order to successfully earn registration to the Scheme No author has synthesized the controversies debates developments and amendments which have surrounded and impacted this often controversial Scheme until now This text definitively breaks down each component of the EMAS regulation including the appendices and applicable EU guidance documents on the topic providing a step by step analysis of the Scheme In addition the work provides examples of three of Akzo Nobel Incorporated's manufacturing locations which have been registered to EMAS providing examples of how to meet the requirements of the Scheme The target audience is threefold first environmental managers who are considering implementing EMAS in their firms but who have little knowledge of the Scheme will find the work highly useful Secondly university students professors and programs who study environmental auditing as part of their coursework and who are seeking a solid overview of the program may employ the text Finally verifiers in the countries which are recent additions to the EU may use the work to familiarize themselves with the

requirements of the Scheme      Ahead of the Curve K. Green,P. Groenewegen,P.S. Hofman,2012-12-06 The debate on sustainable production often ends in discussions on the feasibility of far reaching changes in relation to the competitiveness of companies Industry itself and policy makers tend to back away from engaging in profound processes of industrial transformation Examples of companies who have voluntarily moved beyond what is seen as reasonable and feasible can overcome this deadlock This book collects a fine sample of companies who have taken up their responsibility in this respect To quote the editors of this book They are cases that might provide other firms and policy makers with ideas for innovative environmental responses that are outside the slowly rising trend of improvement that we are currently observing in short the cases are of firms and ideas that are ahead of the curve The editors and many of the authors of this volume are members of the Greening of Industry Network and have been debating with one another for years Founded in 1991 the Greening of Industry Network comprises over 1500 individuals representing academia business public interest labor and government from more than 50 countries Participants work together to build policies and strategies toward creating a sustainable future through many vehicles coordinating research efforts publications planning and participating in workshops public forums and conferences To provide benefit to broader society the Network stimulates public dialogue and brings together academic researchers from many disciplines with other stakeholders who traditionally do not work together in coalitions

International Journal of Sustainable Development ,2001      *Circular Economy and the Law* Feja Lesniewska,Katrien Steenmans,2023-02-02 This book explores the role of law and policy in circular economy transitions and their impacts on justice including on distributional equity and recognition and procedural rights especially for people already marginalised under the current dominant economic system Amid increasing demand for virgin raw materials and unsustainable consumption and waste disposal that are driving the global ecological and climate crisis there are growing calls to urgently transition to circular economies Despite an increasing number of circular approaches being adopted implemented and integrated in national and local laws and policies the number of commercially successful business stories remains isolated Moreover questions about whether circular economy laws and policies are delivering fair and just global outcomes need to be addressed This book examines this significant knowledge gap to understand legal experiences including justice and equity issues in the global context so that these can inform wider design and implementation The book begins by explaining the concept of a circular economy and its context within wider issues of sustainable development and justice The first part of the book then examines the legal context of the circular economy by analysing legal forms in practice and those recommended in wider scholarship before considering how these could impact on existing inequity and injustices globally The second part delivers an empirical understanding of the implications of the law on circular economy approaches and the global equity and justice dimensions through two case studies on solid waste management and forestry The final part addresses legal opportunities and challenges for wider implementation of circular economy approaches that incorporate justice into its

framing This book will be of great interest to students scholars and practitioners of environmental and natural resource law and policy circular economy industrial ecology natural resource management and sustainable development more broadly

**Economic Incentives and Environmental Policies** J.B. Opschoor,R. K. Turner,2012-12-06 This book contains a collection of papers on economic incentives and environmental policies which result from the authors joint research work in the program Environment Science and Society conducted under the auspices of the European Science Foundation with whose cooperation the book has been published The work concentrates on the scientific and methodological aspects of the development implementation and evaluation of economic instruments at a national level The research is both theoretical and empirical At a theoretical level attention is given to the dynamics of instrument choice in various political and economic contexts and to the means for evaluating economic instruments in terms of their effectiveness and efficiency At an empirical level the research seeks to investigate the performance of economic instruments in reality and to explore options for new approaches on the interface between technology economy and the environment A subject index complements this first volume in the ESF Environment Science and Society series      *Environmental Management Accounting - Purpose and Progress* M.D. Bennett,P.M. Rikhardsson,Stefan Schaltegger,2003-08-31 This is the second book of selected papers on environmental management accounting EMA which has been developed for Kluwer by the Environmental Management Accounting Network Europe EMAN Eu drawn primarily from papers presented at EMAN Eu to bring together several examples of leading thinking and practice internationally in this rapidly developing area The authors include academics practitioners from industry and government policy makers and the subjects covered range from individual company experiences to the role of government in promoting EMA in industry The papers included in the book provide several examples of how EMA can be applied in practice both in large corporations and in small and medium sized enterprises and of reports on the extent of the implementation of EMA and the conditions which encourage this The book is intended for all those interested in EMA as either researchers or practitioners It will also be of interest both to those interested in how well established management accounting methods can be adapted and extended in order to meet new demands on companies and also to environmental managers interested in learning how accounting techniques can be of value in achieving environmental management objectives      *Technology Commercialization* Sten A. Thore,2012-12-06 Technology Commercialization DEA and Related Analytical Methods for Evaluating The Use and Implementation of Technical Innovation examines both general Research Development commercialization and targeted new product innovation New product development is a major occupation of the technical sector of the global economy and is viewed in many ways as a means of economic stability for a business an industry and a country The heart of the book is a detailing of the analytical methods with special but not exclusive emphasis on DEA methods for evaluating and ranking the most promising R D and technical innovation being developed The sponsors of the research and development may involve universities countries industries and corporations all of



these sources are covered in the book In addition the trade off of environmental problems vis vis new product development is discussed in a section of the book Sten Thore editor and author has woven together the chapter contributions by a strong group of international researchers into a book that has characteristics of both a monograph and a unified edited volume of well written papers in DEA technology evaluation R D and environmental economics Finally the use of DEA as an evaluation method for product innovation is an important new development in the field of R D commercialization **Sustainability**

**Accounting and Reporting** Stefan Schaltegger, Martin Bennett, Roger Burritt, 2006-09-14 This book provides an up to date overview of the most current developments in environmental and sustainability accounting and its links to reporting This fourth volume in the Environmental Management Accounting Network EMAN series is characterized by a broad geographical and a contextual range of topics Contributions from nearly all continents discuss new developments in environmental accounting and investigate topics and links between corporate environmental and sustainability issues as well as between strategy measurement and information management or between accounting and reporting For the last five years EMAN the environmental and sustainability counting network has developed from a small dedicated group of European academics to a full fledged international network with strong links to corporate accounting and reporting practitioners international organizations and regulators The network provides a platform for the exchange of ideas and the sharing of experiences with environmental and sustainability accounting and reporting EMAN Global [www.eman-global.net](http://www.eman-global.net) serves as an umbrella organisation of the regional sections in the Asia Pacific EMAN AP Europe EMAN EU Americas EMAN AM and Africa EMAN AF Based on the success of the annual conferences of the European and Asia Pacific sections the American and African groups are planning their first workshops The regional sections of EMAN have their own independent work agendas but are linked with each other through the steering committee of EMAN GLOBAL and by participating in other regional conferences fora and workshops

*Quantified Eco-Efficiency* Gjalte Huppes, Masanobu Ishikawa, 2007-06-03 A central asset of eco efficiency analysis is that it does not depend on a specific evaluation of environmental impacts against economic effects Several evaluation methods may be used including those based on willingness to pay panel procedures and public statements on policy goals This volume covers all aspects of eco efficiency analysis and offers a global perspective on the subject

*Computers and the Environment: Understanding and Managing their Impacts* R. Kuehr, Eric Williams, 2012-12-06 Personal computers have made life convenient in many ways but what about their impacts on the environment due to production use and disposal Manufacturing computers requires prodigious quantities of fossil fuels toxic chemicals and water Rapid improvements in performance mean we often buy a new machine every 1 3 years which adds up to mountains of waste computers How should societies respond to manage these environmental impacts This volume addresses the environmental impacts and management of computers through a set of analyses on issues ranging from environmental assessment technologies for recycling consumer behaviour strategies of computer manufacturing firms and government policies One

conclusion is that extending the lifespan of computers e g through reselling is an environmentally and economically effective strategy that deserves more attention from governments firms and the general public

**User Behavior and Technology Development** Peter-Paul Verbeek,Adriaan Slob,2006-10-11 Environmental policy has long been determined by a dichotomy between technology and behavior Some approaches stress the importance of technology and technological innovation while others focus on behavioral change Each approach has its limitations however since technology and behavior often appear so closely intertwined Human behavior results not only from intentions and deliberate decisions but also from its interaction with technological artifacts In the area of traffic safety for instance people s driving behavior is determined as much by curves speed bumps and the power of their motors as by considerations of safety and responsibility How can we best describe and understand these interactions between behavior and technology What conceptual frameworks and empirical studies are available and how can they be integrated And how can we bring these interactions to bear on product design and policy making The book User Behavior and Technology Development explores these relationships between technology and behavior from an interdisciplinary perspective This includes contributions from cognitive psychology industrial design public administration marketing sociology ergonomics science and technology studies and philosophy The book aims to create a conceptual basis for analyzing interactions between technology and behavior and to provide insights that are relevant to technology design and environmental policy

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