

# Fundamentals Of Economics In Sustainable Construction

Recognizing the artifice ways to get this ebook **Fundamentals Of Economics In Sustainable Construction** is additionally useful. You have remained in right site to begin getting this info. acquire the Fundamentals Of Economics In Sustainable Construction link that we give here and check out the link.

You could purchase lead Fundamentals Of Economics In Sustainable Construction or get it as soon as feasible. You could speedily download this Fundamentals Of Economics In Sustainable Construction after getting deal. So, gone you require the ebook swiftly, you can straight acquire it. Its as a result utterly simple and thus fats, isnt it? You have to favor to in this tell

*Fundamentals Of Economics In Sustainable Construction*

2024-08-13

## SHERMAN JESSIE

### Lectures in Ecological Economics and Sustainability Routledge

An analysis of the economic system that explains why a few people are getting richer, most people are getting poorer and why we are all heading for a global catastrophe. Mass poverty and hunger, unemployment, under-development, waste, armed conflict, resource scarcity and environmental destruction are all caused by the flaws in the economic system. This work shows how economic growth is seriously mistaken since it ignores finite resource and ecological limits, thereby promoting violence and injustice as well as ecological calamity. Having invalidated both "free enterprise capitalism" and "big state socialism" as viable long-term economic systems, the author puts forward an alternative, a Third Way "conservative society" that includes some of the best elements of the other two. His argument is that an economy for a sustainable world order must involve simpler living standards, a high degree of local economic self-sufficiency and therefore much less transport and travel, a much smaller cash sector of the economy, more co-operative arrangements such as town banks and working bees, and many free goods from Permaculture-designed "edible landscapes".

### Economics, Politics, and Technology OECD Publishing

The world has changed dramatically. We no longer live in a world relatively empty of humans and their artifacts. We now live in the "Anthropocene," era in a full world where humans are dramatically altering our ecological life-support system. Our traditional economic concepts and models were developed in an empty world. If we are to create sustainable prosperity, if we seek "improved human well-being and social equity, while significantly reducing environmental risks and ecological scarcities," we are going to need a new vision of the economy and its relationship to the rest of the world that is better adapted to the new conditions we face. We are going to need an economics that respects planetary boundaries, that recognizes the dependence of human well-being on social relations and fairness, and that recognizes that the ultimate goal is real, sustainable human well-being, not merely growth of material consumption. This new economics recognizes that the economy is embedded in a society and culture that are themselves embedded in an ecological life-support system, and that the economy cannot grow forever on this finite planet. In this report, we discuss the need to focus more directly on the goal of sustainable human well-being rather than merely GDP growth. This includes protecting and restoring nature, achieving social and intergenerational fairness (including poverty alleviation), stabilizing population, and recognizing the significant nonmarket contributions to human well-being from natural and social capital. To do this, we need to develop better measures of progress that go well beyond GDP and begin to measure human well-being and its sustainability more directly.

### Fundamentals of Sustainable Development Routledge

This new edition of "Environmental and Natural Resources Economics" provides an accessible yet rigorous treatment of the subject, including the economics of sustainability. The new edition has been updated extensively throughout. A new chapter has been added on fisheries economics and policy, and the chapter on global climate change has been substantially rewritten to incorporate new scientific information and evolving public policy. Many new figures and tables have been added, and the glossary has also been expanded. Readers will appreciate the balanced and accessible coverage, and the integration of economics with science and public policy.

Oxford University Press, USA

This book addresses current practices related to sustainable development, its challenges and the future. People belonging to different genders regardless of their age, social class and education should be equal as citizens and individuals, and identical in their rights and responsibilities. The business sector, authorities, societies and religious circles have the potential to play a fundamental role in curbing social ills and the degradation of the environment in this modern world. The authors of this book argue that without good governance, the status of a human being is unlikely to improve. They make the case that to achieve sustainability, government, society and the economy must ensure a platform for people to participate in decision-making and benefit from the rights they are accorded. By covering a range of perspectives across economic, social and moral life, the book will shed light on the problems and possible solutions to sustainable development and the triple bottom line, of people, planet and profit, under the umbrella of morals and divine law. This will be a useful guide for undergraduate and postgraduate students across multiple disciplines, such as economics, religious studies, business studies, political science, anthropology and sociology.

### An Integrated Economic and Ecological Approach Routledge

Cities have experienced an unprecedented rate of growth in the last decade. More than half the world's population lives in urban areas, with the U.S. percentage at 80 percent. Cities have captured more than 80 percent of the globe's economic activity and offered social mobility and economic prosperity to millions by clustering creative, innovative, and educated individuals and organizations. Clustering populations, however, can compound both positive and negative conditions, with many modern urban areas experiencing growing inequality, debility, and environmental degradation. The spread and continued growth of urban areas presents a number of concerns for a sustainable future, particularly if cities cannot adequately address the rise of poverty, hunger, resource consumption, and biodiversity loss in their borders. Intended as a comparative illustration of the types of urban sustainability pathways and subsequent lessons learned existing in urban areas, this study examines specific examples that cut across geographies and scales and that feature a range of urban sustainability challenges and opportunities for collaborative learning across metropolitan regions. It focuses on nine cities across the United States and Canada (Los Angeles, CA, New York City, NY, Philadelphia, PA, Pittsburgh, PA, Grand Rapids, MI, Flint, MI, Cedar Rapids, IA, Chattanooga, TN, and Vancouver, Canada), chosen to represent a variety of metropolitan regions, with consideration given to city size, proximity to coastal and other waterways, susceptibility to hazards, primary industry, and several other factors.

### The Blue Economy in Sub-Saharan Africa W.E. Upjohn Institute

Written by international experts in their respective fields, Sustainable Growth and Resource Productivity provides a comprehensive overview of global issues of raw materials supply and resource use. It also introduces new views and perspectives on the sustainable growth of emerging economies and develops a rationale for a new resource economics. This book emphasizes why resources are back on the agenda: firstly, because of their fundamental economic role in technological progress and long-term prosperity; secondly, because deficits in raw material markets are now intertwined with deficits in the financial markets; and, thirdly, because the sustainable

management of natural resources is a crucial element in responses to new global challenges such as climate change. Sustainable Growth and Resource Productivity analyses raw materials supply and resource use in a global context. The contributions present state-of-the-art results and perspectives on the availability of resources and discuss factors such as limited supply, demand from emerging and other economies and the critical shortage of some materials – particularly some metals – that are essential inputs in many high-tech processes and may put certain industries at risk. Sustainable Growth and Resource Productivity sheds new light on the economics of sustainable growth. Linking the current financial crisis with stock market pricing and innovation dynamics, it argues for reforms in international macro-economic policies. It also critically discusses the implications of valuing labour productivity over capital and resource productivity and argues that policies favouring capital productivity will increase both social and economic sustainability. Further contributions are made on the business dimensions of material efficiency as well as on policy recommendations. The book examines the overall empirical trend towards decoupling resource use from economic growth. It undertakes a rigorous cross-country comparison and looks in more detail at the cases of Finland and Greece, as well as at emerging economies and their role in the global governance of natural resources. A key focus is placed on China, with discussion of recent findings regarding Chinese domestic policy on energy, climate and resources as well as on developing Chinese foreign policy in Africa. The book concludes with the positing of a new theory of resource economics: an emerging sub-discipline that puts resources at its heart but clearly aligns with other fields of economics, and transcends the borderlines of geology, geography, material science, recycling and waste, as well as elements of other social sciences. This important new book will be essential reading for economic researchers, governmental officials, businesses and NGOs with an interest in understanding the policy links to sustainable growth and in learning more about the emerging field of resource productivity.

### The Re-Creation of Economics for a Sustainable Future Routledge

Sustainable development (SD) and neo-classical economics (NCE) provide different but overlapping perspectives on how society may address economic, environmental, and social challenges as well as productivity concerns. The aim of this paper is to investigate the relationship between productivity and SD & NCE, with a key purpose of clarifying where both SD & NCE could support societal efforts to improve productivity. After an introduction on SD, NCE, and the importance of productivity, section 2 reviews the main characteristics of SD, with emphasis on their relationship to efficiency. Section 3 deals with the neo-classical view on productivity gains and their relation to growth. Section 4 discusses natural capital, a factor that SD focuses on. It considers voluntary economic instruments, the Porter hypothesis, and eco-taxation as means towards increasing the scarcity of natural capital and stimulating innovation. Section 5 covers market environmental products and services such as eco-labelling. Section 6 examines physical capital, considering in turn the neo-classical, evolutionary, and ecological engineering perspectives on innovation. Section 7 deals with human capital and information technologies which provide human capital with connectedness. Section 8 treats social capital and the rules of the productivity game. Section 9 considers no-regrets solutions which increase both economic efficiency and sustainability. The final section reviews the areas of complementarity and differences between SD and NCE.

### Principles of Environmental Economics and Sustainability Routledge

Every year, as soon as reports on global economic inequality remind us about the direction our civilization is heading, there is a hysterical reaction, but hysteria dies down within weeks and we go back to the lifestyle that brought us here today. Often the blame is laid on the Millennial generation for their "apathy," "lust for comfort," and "bratty" attitude. Yet, business insider surveys indicate it's the same Millennial generation that overwhelmingly cares for the state of the world and the direction in which our civilization is heading. Nearly 50% of them ranked climate change and destruction of nature as their primary concern. This is followed by concern for war and global conflict, and then global economic inequality. The vast majority of those surveyed are willing and eager to make lifestyle changes. This book breaks open the hypocrisy of our civilization and stops the blame game in its tracks and identifies the root causes of today's world economy, ecology, and global politics. The book demonstrates that changes in lifestyle are necessary but not sufficient. No economic policy or technology development mode has a chance to survive, let alone thrive unless supported by the political establishment. In this process, the government plays a pivotal role. The challenge is to change the attitude of the government from a 'self-serving' controlling mode to a representative philanthropic mode. This new system of economic development and political governance is inspired by a long-forgotten understanding of political economics: medieval Islamic economics. In reviewing the history of economics from trade, currencies, and interest, the strengths and weaknesses of various economic developments over our centuries are evaluated. Based on the historical analysis, a step by step procedure is outlined for this fundamental change in our society today. As a whole, this book is the first of modern era to offer such a comprehensive analysis, complete with solutions to the entire crisis of today's civilization. Whether for the student, engineer in the field, economist, or even layperson interested in the subject, this groundbreaking new work is a must-have. Covering one of the most important subjects in our world today, it is a valiant attempt at solving one of the biggest problems facing all of us.

### Challenges and Opportunities for the United States Routledge

This book provides a rigorous, concise guide to the current status and future prospects of the global energy system. As we move away from fossil fuels and toward clean energy solutions, the complexity of the global energy system has increased. Tagliapietra cuts through this complexity with a multidisciplinary perspective of the system, which encompasses economics, geopolitics, and basic technology. He goes on to explore the main components of the global energy system - oil, natural gas, coal, nuclear energy, bioenergy, hydropower, geothermal energy, wind energy, solar energy, marine energy - as well as energy consumption and energy efficiency. It then provides an in-depth analysis of the pivotal issues of climate change and of energy access in Africa.

### Economic Growth and Sustainable Development Routledge

The concept of circular economy is based on strategies, practices, policies, and technologies to achieve principles related to reusing, recycling, redesigning, repurposing, remanufacturing, refurbishing, and recovering water, waste materials, and nutrients to preserve natural resources. It provides the necessary conditions to encourage economic and social actors to adopt strategies toward sustainability. However, the increasing complexity of sustainability aspects means that traditional engineering and management/economics alone cannot face the new challenges and reach the appropriate solutions. Thus, this book highlights the role of engineering and management

in building a sustainable society by developing a circular economy that establishes and protects strong social and cultural structures based on cross-disciplinary knowledge and diverse skills. It includes theoretical justification, research studies, and case studies to provide researchers, practitioners, professionals, and policymakers the appropriate context to work together in promoting sustainability and circular economy thinking. Volume 1, *Circular Economy and Sustainability: Management and Policy*, discusses the content of circular economy principles and how they can be realized in the fields of economy, management, and policy. It gives an outline of the current status and perception of circular economy at the micro-, meso-, and macro-levels to provide a better understanding of its role in achieving sustainability. Volume 2, *Circular Economy and Sustainability: Environmental Engineering*, presents various technological and developmental tools that emphasize the implementation of these principles in practice (micro-level). It demonstrates the necessity to establish a fundamental connection between sustainable engineering and circular economy. Presents a novel approach, linking circular economy concepts to environmental engineering and management to promote sustainability goals in modern societies Approaches the topic on production and consumption at both the micro and macro levels, integrating principles with practice Offers a range of theoretical and foundational knowledge in addition to case studies that demonstrate the potential impact of circular economy principles on both economic and societal progress

#### **Sustainability in the Twenty-First Century** John Wiley & Sons

This book offers an accurate and updated approach to the main contributions of cosmopolitan biolaw in relation to sustainability, global governance, organizational health care economics and COVID-19. Bringing together different robust and dense biojuridical epistemologies to analyze key bioethical problems as well as the health care, management, economics and sustainability issues of our time, it constitutes a paradigmatic text in its field. In addition to exploring different epistemologies and jurisdictional scopes of biolaw, including the relationships between this new field and the challenges which have arisen in the current globalized and technologized world, the book addresses controversial issues straight from today's headlines: for example, the basics for health care, finance and organizational economics, global biojuridical principles for governance, globalization, bioscientific empowerment, global and existential risk and sustainability challenges for a post-pandemic world. The book encourages readers to think impartially in order to know and understand the bioethical and biojuridical dilemmas that stem from current economics and sustainability issues. Accordingly, it will be a valuable resource for courses in the fields of biolaw, law, bioethics, global sustainability, organizational health care economics, and global governance at different professional levels.

#### *Economics of Sustainable Energy* Cambridge University Press

In twenty-four essays, internationally renowned economic thinkers share the fundamentals for a new economy that is rooted in the well-being of humanity and of our planet. In 'Thrive. Fundamentals for a New Economy', Kees Klomp and Shinta Oosterwaal provide insights into alternative approaches to economics that are sustainable and just for both society and the planet in the long term. In twenty-four essays, internationally renowned economic thinkers like Kate Raworth, Charles Eisenstein, Clair Brown, Helena Norberg-Hodge and Daniel C. Wahl, share the alternatives that are available to us, such as doughnut economics, wellbeing economics, common good economics, regenerative economics, buddhist economics, commons economics, local economics, bioregional economics, indigenous economics and degrowth economics. Each of these approaches provides a realistic and enticing vision of a thriving future. 'Thrive' offers readers the fundamentals for a new economy that is rooted in the well-being of humanity and of our planet. This book is a must-read for anyone in search of economic perspectives that contribute to a flourishing world. .

#### *FUNDAMENTAL ECONOMICS - Volume II* Routledge

The concept of circular economy is based on strategies, practices, policies, and technologies to achieve principles related to reusing, recycling, redesigning, repurposing, remanufacturing, refurbishing, and recovering water, waste materials, and nutrients to preserve natural resources. It provides the necessary conditions to encourage economic and social actors to adopt strategies toward sustainability. However, the increasing complexity of sustainability aspects means that traditional engineering and management/economics alone cannot face the new challenges and reach the appropriate solutions. Thus, this book highlights the role of engineering and management in building a sustainable society by developing a circular economy that establishes and protects strong social and cultural structures based on cross-disciplinary knowledge and diverse skills. It includes theoretical justification, research studies, and case studies to provide researchers, practitioners, professionals, and policymakers the appropriate context to work together in promoting sustainability and circular economy thinking. Volume 1, *Circular Economy and Sustainability: Management and Policy*, discusses the content of circular economy principles and how they can be realized in the fields of economy, management, and policy. It gives an outline of the current status and perception of circular economy at the micro-, meso-, and macro-levels to provide a better understanding of its role to achieve sustainability. Volume 2, *Circular Economy and Sustainability: Environmental Engineering*, presents various technological and developmental tools that emphasize the implementation of these principles in practice (micro-level). It demonstrates the necessity to establish a fundamental connection between sustainable engineering and circular economy. Presents a novel approach linking circular economy concept to environmental engineering and management to promote sustainability goals in modern societies Approaches the topic of production and consumption at both the micro- and macro-levels, integrating principles with practice Offers a range of theoretical and foundational knowledge in addition to case studies that demonstrate the potential impact of circular economy principles on economic and societal progress

#### *Moral, Ethical and Religious Perspectives* Routledge

This powerful book sets out arguments and an agenda of policy proposals for achieving a sustainable and prosperous, but non-growing economy, also known as a steady-state economy. The authors describe a plan for solving the major social and environmental problems which face us today on a finite planet with a rapidly growing population. They show how we have to find ways to reverse the environmental crises, while at the same time, we have to eradicate poverty and erase the divide between the haves and the have-nots. They argue that the economic orthodoxy...

#### *The Sustainable Economy* Springer

Economic growth, reflected in increases in national output per capita, makes possible an improved material standard of living and the alleviation of poverty. Sustainable development, popularly and

concisely defined as 'meeting the needs of the present generations without compromising the ability of future generations to meet their needs,' directly addresses the utilization of natural resources, the state of the environment, and intergenerational equity. Now in its second edition, *Economic Growth and Sustainable Development* features expanded discussion of income distribution, social capital and the insights of behavioural economics for climate change mitigation. Boxed case studies have been added which explore the impact of economic growth on people and countries in both the developed and developing world. This text addresses the following fundamental questions: What causes economic growth? Why do some countries grow faster than others? What accounts for the extraordinary growth in the world's population over the past two centuries? What are the current trends in population and will these trends continue? How do we measure sustainable development and is sustainable development compatible with economic growth? Why is climate change the greatest market failure of all time? What can be done to mitigate climate change and global warming? With a blend of formal models, empirical evidence, history and policy, this text provides a coherent and comprehensive treatment of economic growth and sustainable development. It is suitable for those who study development economics, sustainable development and ecological economics.

#### **Toward Sustainable Development** Foundations of a Sustainable Economy Moral, Ethical and Religious Perspectives

Fundamental Economics in two volumes is a component of Encyclopedia of Social Sciences and Humanities in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme discusses on Fundamental Economics, Walrasian and Non-Walrasian Microeconomics, Strategic Behavior, The Economics of Bargaining, Economic Externalities, Public Goods, Macroeconomics, Decision Making Under Uncertainty, Development Economics and many other related topics. These two volumes are aimed at the following five major target audiences: University and College Students Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers, NGOs and GOs.

#### *Towards a Sustainable Economy* National Academies Press

A comprehensive resource to sustainability and its application to the environmental, industrial, agricultural and food security sectors Sustainability fills a gap in the literature in order to provide an important guide to the fundamental knowledge and practical applications of sustainability in a wide variety of areas. The authors - noted experts who represent a number of sustainability fields - bring together in one comprehensive volume the broad range of topics including basic concepts, impact assessment, environmental and the socio-economic aspects of sustainability. In addition, the book covers applications of sustainability in environmental, industrial, agricultural and food security, as well as carbon cycle and infrastructural aspects. Sustainability addresses the challenges the global community is facing due to population growth, depletion of non-renewable resources of energy, environmental degradation, poverty, excessive generation of wastes and more. Throughout the book the authors discuss the economics, ecological, social, technological and systems perspectives of sustainability. This important resource: • Explores the fundamentals as well as the key concepts of sustainability; • Covers basic concepts, impact assessment, environmental and socio-economic aspects, applications of sustainability in environmental, industrial, agricultural and food security, carbon cycle and infrastructural aspects; • Argues the essentiality of sustainability in ensuring the propitious future of earth systems; and • Authored by experts from a range of various fields related to sustainability. Written for researchers and scientists, students and academics, *Sustainability: Fundamentals and Applications* is a comprehensive book that covers the basic knowledge of the topic combined with practical applications.

#### **Enough Is Enough** Anchor

In order to manage the transition towards a sustainable future electricity system, an in-depth understanding of the key technological, economic, environmental and societal drivers for electricity markets is required. Suitable for advanced undergraduate and graduate students, this textbook provides an overview of these drivers and introduces readers to major economic models and empirical evidence for the study of electricity markets and systems. Readers will learn about electricity generation, demand, transport, and storage, as well as the fundamentals of grid and electricity markets in Europe. By introducing them to state-of-the-art models from operations research and economics, the book provides a solid basis for analytical insights and numerical modeling. Furthermore, the book discusses the policy instruments and design choices for electricity market regulation and sustainable power system development, as well as the current challenges for smart energy systems.

#### *Fundamentals and Applications* Business Contact

*Principles of Environmental Economics and Sustainability* was the first textbook to make a serious attempt to systematically integrate ecological and economic principles. It successfully introduced ecological perspectives to the study of environmental economics while maintaining the integrity of the standard economic approach. In this new edition this notion continues to be embraced while also offering readers several further features, including greater in-depth coverage of the economics of climate change, expanded reference sections, and an updated and expanded "review and discussion questions" section. The unique integration of both mainstream and ecological approaches which this textbook provides proves particularly illuminating in relation to the following topics: economics of climate change environmental valuation cost-benefit analysis and the environment sustainability in theory and practice limits to growth the role of technology the business case for environmental sustainability. Written in a clear and accessible way, this key textbook is an excellent resource for all students of environmental economics. With study tools including learning objectives, case studies, and charts and graphs, this volume uses real-world examples to engage both students and academics within the field. This text also accompanied by a Companion Website including resources for both students and instructors. Here you will find student study questions, interactive quizzes, and an instructor manual composed of lecture PowerPoint templates.

#### **Principles of Environmental Economics** Routledge

Combining theory, empirical data, and policy this book provides a fresh analysis of sustainable finance. It explains the sustainability challenges for corporate investment and shows how finance can steer funding to certain companies and projects without sacrificing return, speeding up the transition to a sustainable economy.