

ROUTLEDGE STUDIES IN ECOLOGICAL
ECONOMICS

Beyond Reductionism

A passion for interdisciplinarity

Edited by
Katharine N. Farrell, Tommaso Luzzati
and Sybille van den Hove



Beyond Reductionism A Passion For Interdisciplinarity Routledge Studies In Ecological Economics

Brent M. Haddad, Barry D. Solomon



Beyond Reductionism A Passion For Interdisciplinarity Routledge Studies In Ecological Economics:

Beyond Reductionism Katharine Farrell, Tommaso Luzzati, Sybille van den Hove, 2013-05-07 This is a book about the work of scientists in the era of the Anthropocene where human beings appear to have become a driving force in the evolution of the planet. It is a diverse collection of empirical, methodological, and theoretical chapters concerned with the practice of interdisciplinary social ecological systems research. The aim of the contributors is to give the reader an appreciation for the range and complexity of the challenges faced by researchers, research institutions, and wider communities trying to make sense of the causes and consequences of this new era of global environmental change. The tragedy of the Anthropocene, of the large scale anthropogenic habitat destruction and planet wide impacts of anthropogenic climate change, is not that science has failed humanity but rather that it has served humanity all too well, making possible in just a few hundred years volumes and scales of human activity far exceeding anything ever seen before. Coming to terms with that success was the aim of the 1969 Alpbach Symposium from which this book draws its name, where contributors including Friedrich Hayek and Ludwig von Bertalanffy asked themselves what theory, practices, and standards are required to move beyond reductionism. Like those from 1969, the answers presented in this collection are hugely diverse, ranging from PhD students concerned with research methods and institutional obstacles to mid-career scholars presenting their innovative beyond reductionism research methods to emeritus professors looking back over what has been achieved in the past 30 years and suggesting where things might go from here. All the contributors begin from the premise that the challenges of the Anthropocene can only be successfully met if interdisciplinary research effectively brings together social and natural sciences, the humanities, stakeholders, and decision makers. They conclude in unison that both the institutional and the methodological foundations needed to do this work are still sorely lacking. While this may seem a dismal position, the book is full of success stories such as the integrative approach of MuSIASEM (Multi Scale Integrative Assessment of Social Ecological Metabolism) developed by Mario Giampietro's group in Barcelona, Spain; the alternative perspectives of what Ariel Salleh calls the meta industrial discourse in Ecofeminism; or the innovative trans departmental status of the Stockholm Resilience Centre in Sweden. Putting both the theoretical and methodological challenges of moving beyond reductionism on the table for discussion, this text aims to help a growing community of passionate thinkers and actors better understand themselves and their work.

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scale anthropogenic habitat destruction and planet wide impacts of anthropogenic climate change is not that science has failed humanity but rather that it has served humanity all too well making possible in just a few hundred years volumes and scales of human activity far exceeding anything ever seen before. Coming to terms with that success was the aim of the 1969 Alpbach Symposium from which this book draws its name where contributors including Friedrich Hayek and Ludwig von Bertalanffy asked themselves what theory practices and standards are required to move beyond reductionism. Like those from 1969 the answers presented in this collection are hugely diverse ranging from PhD students concerned with research methods and institutional obstacles to mid career scholars presenting their innovative beyond reductionism research methods to emeritus professors looking back over what has been achieved in the past 30 years and suggesting where things might go from here. All the contributors begin from the premise that the challenges of the Anthropocene can only be successfully met if interdisciplinary research effectively brings together social and natural sciences the humanities stakeholders and decision makers. They conclude in unison that both the institutional and the methodological foundations needed to do this work are still sorely lacking. While this may seem a dismal position the book is full of success stories such as the integrative approach of MuSIASEM Multi Scale Integrative Assessment of Social Ecological Metabolism developed by Mario Giampietro's group in Barcelona Spain the alternative perspectives of what Ariel Salleh calls the meta industrial discourse in Ecofeminism or the innovative trans departmental status of the Stockholm Resilience Centre in Sweden. Putting both the theoretical and methodological challenges of moving beyond reductionism on the table for discussion this text aims to help a growing community of passionate thinkers and actors better understand themselves and their work.

Dictionary of Ecological Economics Brent M. Haddad, Barry D. Solomon, 2023-02-14 This comprehensive Dictionary brings together an extensive range of definitive terms in ecological economics. Assembling contributions from distinguished scholars it provides an intellectual map to this evolving subject ranging from the practical to the philosophical.

Long Term Socio-Ecological Research Simron Jit Singh, Helmut Haberl, Marian Chertow, Michael Mirtl, Martin Schmid, 2012-11-13 The authors in this volume make a case for LTSER's potential in providing insights knowledge and experience necessary for a sustainability transition. This expertly edited selection of contributions from Europe and North America reviews the development of LTSER since its inception and assesses its current state which has evolved to recognize the value of formulating solutions to the host of ecological threats we face. Through many case studies this book gives the reader a greater sense of where we are and what still needs to be done to engage in and make meaning from long term place based and cross disciplinary engagements with socio ecological systems.

Transdisciplinary Perspectives on Transitions to Sustainability Edmond Byrne, Gerard Mullally, Colin Sage, 2016-06-17 Demonstrating how a university can in a very practical and pragmatic way be re envisioned through a transdisciplinary informed frame this book shows how through an open and collegiate spirit of inquiry the most pressing and multifaceted issue of contemporary societal unsustainability can be addressed and understood in a way that

transcends narrow disciplinary work. It also provides a practical exemplar of how far more meaningful deliberation, understandings and options for action in relation to contemporary sustainability related crises can emerge than could otherwise be achieved. Indeed it helps demonstrate how only through a transdisciplinary ethos and approach can real progress be achieved. The fact that this can be done in parallel to or perhaps underneath the day to day business of the university serves to highlight how even micro seed initiatives can further the process of breaking down silos and reuniting C P Snow's two cultures after some four centuries of the relentless project of modernity. While much has been written and talked about with respect to both sustainability and transdisciplinarity this book offers a pragmatic example which hopefully will signpost the ways others can will and indeed must follow in our common quest for real progress. *Smart Technologies in Urban Engineering* Olga Arsenyeva, Tetyana Romanova, Maria Sukhonos, Ihor Biletskyi, Yevgen Tsegelnyk, 2023-12-18 This book offers a comprehensive review of smart technologies and provides perspectives on their applications in urban engineering. It covers a wide range of applications from manufacturing engineering and transport logistics to information and computation technologies providing readers with fresh ideas for future research and collaborations. The book showcases selected papers from the International Conference on Smart Technologies in Urban Engineering STUE 2023 hosted by O M Beketov National University of Urban Economy in Kharkiv, Ukraine. The conference held on June 8-10, 2023 aimed to address the complex rehabilitation of areas damaged by military conflicts and natural disasters. The contributions within this book offer a wealth of valuable information fostering a meaningful exchange of experiences among scientists in the field of urban engineering. By delving into this book, readers explore innovative approaches to tackle urban challenges, gain insights from experts, and contribute to the advancement of smart technologies for the betterment of cities worldwide. Education for Sustainable Human and Environmental Systems Will Focht, Michael A. Reiter, Paul A. Barresi, Richard C. Smardon, 2018-10-03 The goal of Sustainable Human and Environmental Systems (SHES) education is to prepare students to facilitate social learning in communities that builds knowledge of capacity for and commitment to sustainability to facilitate the emergence of sustainable societies. The SHES approach to sustainability education relies on complexity based systems thinking that transcends disciplinary boundaries. This book provides a comprehensive guide to the SHES approach including its rationale and theoretical foundation, its pedagogy and practical applications in curricula and ways to support the approach through institutional administration. This book will be of great interest to academics and students of education, environmental sciences and studies, sustainability and sustainable development, natural resource management, conservation, environmental policy, environmental planning and related fields in higher education. Educators can use this book as a guide to SHES pedagogy, curriculum design, sustainability, environmental studies, sustainable development and sustainable well-being. Administrators will find the book useful in establishing, evaluating, staffing and promoting programs based on the SHES approach.

Routledge Handbook of Ecological Economics Clive L. Spash, 2017-04-07 Since becoming formally established with

an international academic society in the late 1980s ecological economics has advanced understanding of the interactions between social and biophysical reality It initially combined questioning of the basis of mainstream economics with a concern for environmental degradation and limits to growth but has now advanced well beyond critique into theoretical analytical and policy alternatives Social ecological economics and transformation to an alternative future now form core ideas in an interdisciplinary approach combining insights from a range of disciplines including heterodox economics political ecology sociology political science social psychology applied philosophy environmental ethics and a range of natural sciences This handbook edited by a leading figure in the field demonstrates the dynamism of ecological economics in a wide ranging collection of state of the art essays Containing contributions from an array of international researchers who are pushing the boundaries of the field the Routledge Handbook of Ecological Economics showcases the diversity of the field and points the way forward A critical analytical perspective is combined with realism about how economic systems operate and their essential connection to the natural world and society This provides a rich understanding of how biophysical reality relates to and integrates with social reality Chapters provide succinct overviews of the literature covering a range of subject areas including heterodox thought on the environment society power and politics markets and consumption value and ethics science and society methods for evaluation and policy analysis policy challenges and the future post growth society The rich contents dispel the myth of there being no alternatives to current economic thought and the political economy it supports The Routledge Handbook of Ecological Economics provides a guide to the literature on ecological economics in an informative and easily accessible form It is essential reading for those interested in exploring and understanding the interactions between the social ecological and economic and is an important resource for those interested in fields such as human ecology political ecology environmental politics human geography environmental management environmental evaluation future and transition studies environmental policy development studies and heterodox economics

Philosophical Basics of Ecology and Economy Malte Faber,Reiner Manstetten,2009-09-10 In today s world despite the dramatic anthropogenic environmental changes a proper understanding of the relationship between humanity and nature requires a certain detachment The pressing problems in their whole extent will only be fully understood and solved with comprehensive and patient analysis Accordingly this book develops new perspectives on fundamental questions of biology ecology and the economy integrated within a framework of a terminology specially devised by the authors By illuminating the epistemological backgrounds of ecological economic research the authors lay foundations for interdisciplinary environmental research and offer guidelines for practical action In close contact to the findings of present day biology and economics they demonstrate the fruitfulness as well as the shortcomings of modern science for the understanding of the proper place of humankind in nature Many of the book s central concepts are rooted in a tradition whose origins go back to European philosophy and literature of the 17th Century Frequently current problems in the fields of economics ecology politics

philosophy and biology are discussed in a kind of dialogue with thinkers and poets like Bacon Quesnay Kant Goethe and Novalis This approach of the book known in Continental European Philosophy as hermeneutics offers a map rather than marking out a specific course On the other hand the book offers traits of the Anglo Saxon tradition of thought a precise analytical approach to theory and a pragmatic approach to action Both approaches are used by the authors complementarily Thus the authors lay the foundations for an ecological economical and political practice which is able to tackle concrete environmental problems on an encompassing and long term basis This translated volume will be of great use and interest to students of ecology economics and in particular environmental education sustainable development and environmental ethics

A History of Ecological Economic Thought Marco P. Vianna Franco, Antoine Missemer, 2022-08-01 Contributing to a better understanding of contemporary issues of environmental sustainability from a historical perspective this book provides a cohesive and cogent account of the history of ecological economic thought The work unearths a diverse set of ideas within a Western and Slavic context from the Renaissance and the Enlightenment to the late 1940s to reveal insights firmly grounded in historiographical research and of import for addressing current sustainability challenges not least by means of improving our grasp on how humans and nature can generously coexist in the long term The history of ecological economic thought offered in this volume is rich and diverse encompassing views that are bound by the observance of the tenets of the natural sciences but which differ significantly in terms of the role of energy and materials to cultural development and the normative aspects involving resource distribution social ideals and policy making Combining the approaches of independent scholarly figures and scientific communities from different historical periods and nationalities the book brings elements that are still missing in the scarce literature on the history of ecological economic thought and highlights the underlying threads which unite such initiatives The book brings a fresh look into the historical development of ecological economic ideas and will therefore be of great interest to scholars and students of ecological economics environmental economics sustainability science interdisciplinary studies and history of economic thought

The Great Transition Mauro Bonaiuti, 2014 Recent events including the financial crisis and the gradual lessening of the planet's natural resources have raised the fundamental question as to whether the capitalist market system can survive its own contradictions or whether we are witnessing the outset of a profound change in civilization By deploying the tools of the science of complexity alongside those of historical research Mauro Bonaiuti tackles this basic question posed against a backdrop of declining marginal returns where growth in the complexity of industrial military and bureaucratic institutional apparatuses is thought to have led to progressive increases in economic social and environmental costs In this framework the economic crisis we are traversing grave as it is could be interpreted not as a simple cyclical crisis from which it is possible to escape by the traditional policies of supporting growth but as the outcome of a passage of civilization inscribed in the long term evolutionary dynamics of capitalism After the crisis that started in 2008 with millions of people unemployed with the failure of the economy to pick up and with the

ever growing sense of precariousness and insecurity we are beginning to suspect that we are facing something more than a cyclical crisis Routledge Studies in Ecological Economics [Anonymus AC08360211],2008 **Beyond Ecological**

Economics and Development Luis Valenzuela,María del Valle Barrera,2023-08-25 The interrelationship among development environment and human needs is one of the key issues being faced by the world today The Chilean economist Manfred Max Neef was a leading thinker on this dynamic and this book provides both an introduction to and analysis of his work and ideas Arranged in three main sections Human needs and wellbeing Development growth and sustainability and Methodology of economics the chapters in this book contribute to on going debates on issues as important as human development the limits of economic growth deep ecology sustainable consumption entrepreneurship climate change interdisciplinarity and the methodology and practice of economics The contributors to this volume provide a broad range of different critical perspectives on these issues and the chapters are arranged in dialogue with each other to provide the reader with a rounded view of the legacy of Max Neef This book is vital reading for all those interested in ecological economics environmental economics development economics methodology and philosophy of economics and heterodox economics Transformative Ecological Economics Ove Jakobsen,2017-04-21 This volume develops a synthesized interpretation of ecological economics integrating different levels economic system business practice and the economic actor It discusses how changes on a systems level are connected to changes in practise and development of individual consciousness Transformative Ecological Economics delves into the insight and knowledge from different sources of inspiration Thermodynamics Darwinism Anthroposophy and Buddhism as well as into an integrated story describing and illustrating the core ideas principles and values which characterize a utopian society anchored in ecological economics

Global Ecology and Unequal Exchange Alf Hornborg,2012-03-29 In modern society we tend to have faith in technology But is our concept of technology itself a cultural illusion This book challenges the idea that humanity as a whole is united in a common development toward increasingly efficient technologies Instead it argues that modern technology implies a kind of global zero sum game involving uneven resource flows which make it possible for wealthier parts of global society to save time and space at the expense of humans and environments in the poorer parts We tend to think of the functioning of machines as if it was detached from the social relations of exchange which make machines economically and physically possible in some areas But even the steam engine that was the core of the Industrial Revolution in England was indissolubly linked to slave labour and soil erosion in distant cotton plantations And even as seemingly benign a technology as railways have historically saved time and accessed space primarily for those who can afford them but at the expense of labour time and natural space lost for other social groups with less purchasing power The existence of technology in other words is not a cornucopia signifying general human progress but the unevenly distributed result of unequal resource transfers that the science of economics is not equipped to perceive Technology is not simply a relation between humans and their natural

environment but more fundamentally a way of organizing global human society From the very start it has been a global phenomenon which has intertwined political economic and environmental histories in complex and inequitable ways This book unravels these complex connections and rejects the widespread notion that technology will make the world sustainable Instead it suggests a radical reform of money which would be as useful for achieving sustainability as for avoiding financial breakdown It brings together various perspectives from environmental and economic anthropology ecological economics political ecology world system analysis fetishism theory semiotics environmental and economic history and development theory Its main contribution is a new understanding of technological development and concerns about global sustainability as questions of power and uneven distribution ultimately deriving from the inherent logic of general purpose money It should be of interest to students and professionals with a background or current engagement in anthropology sustainability studies environmental history economic history or development studies

Green Economy Reader Stanislav Shmelev, 2016-09-22

State of the art in sustainability thinking inspired by interdisciplinary ideas of ecological economics This book is focusing on sustainability pathways new economic theory democracy and institutions multidimensional assessment of sustainability macroeconomic modelling and policies climate change and renewable energy resource flows and circular economy regenerative cities environmental conflicts and values It will be helpful for MSc and PhD students in Economics Management Environmental Change Ecological Economics Development Economics Sustainability and practitioners in business international and nongovernmental organizations Rich diverse and thought provoking collection of top level contributions it will help to facilitate the transition towards sustainability and educational reform A fabulous composition of papers by the authors who really count Ernst von Weizsäcker The Club of Rome The authors present a refreshing perspective on the possibilities of human progress in harmony with nature without the need for economic growth to secure long term human welfare and wise use of nature's services Extremely relevant Peter May Past President International Society for Ecological Economics and Professor UFRRJ Rio de Janeiro Brazil The book goes well beyond the Green Economy offering arguments and blueprints for a complete makeover of the current economic system With multi and interdisciplinary contributions ranging from moderately to fundamentally critical of current economics it raises fundamental questions of value and power draws on a wide range of theories opens the eyes for the historical processes that brought about the current crises and demonstrates the value of ecological but also classical economic thinking to their solution If better politics require better theories this is a must read for academics and decision makers in the time of climate crisis Joachim Spangenberg Sustainable Europe Research Institute SERI Germany e V

Beyond Uneconomic Growth Joshua C. Farley, Deepak Malghan, 2016

Daly's contributions to the still emergent field of ecological economics are constant references for our peers throughout the developing world as well as in the North His courageous tilting at the windmills of mainstream economic nonsense inspire us to continue questioning in whose interests do we continue on a perpetual search for unlimited material satisfaction Daly's

conception is not only of a world restricted by biophysical limits but also one in which poverty and deprivation are commonplace and where Sisyphean efforts to maintain accelerated economic growth only exacerbate inequitable distribution. His vision of sustainable economic welfare shed light on other aspects of our existence which make it worth living. Thanks to Farley Rees, El Serafy, Goodland, and other fellow travelers, we are bestowed with an excellent collection synthesizing Daly's contributions to our work which will inspire our youth and their children long after we too depart. Peter H. May, President, Brazilian Society for Ecological Economics (ECOECO). Contributed by several eminent thinkers, the chapters in this book herald the paradigm shift that is needed to save the scientific framework of economics. In spite of the conceptual inconsistencies, GDP continues to be accepted by the nation states as the singular parameter to comprehensively describe the health of their economy. What gets easily hidden behind Market Failures is actually the success of cost shifting on the heads of the ignorant and marginalized people as price for economic growth. The chapters eloquently establish the need for moving beyond the religious faith on a paradigm that is facing fundamental conceptual challenges but has not addressed them with due seriousness. What is a greater contribution of this collection is the identification of the gaps in knowledge of economics that need to be filled up to arrive at some basic articulations of the new paradigm that can throw some light on what is ecologically and socially Sustainable Development. Jayanta Bandyopadhyay, Past President, The Indian Society for Ecological Economics. The title *Beyond Uneconomic Growth* captures both the core of Herman Daly's key message and the linguistic mastery that makes his texts so enjoyable to read. The book forms a great tribute to the work of Herman Daly by gathering a distinguished set of contributors covering a wide variety of the topics that Daly has dealt with and pointing in new directions. Inge R. Pke, Aalborg University, Denmark. This engaging book brings together leading ecological economists to collectively present a definitive case for looking beyond economic growth as the sole panacea for the world's ecological predicament. Grounded in physics, ecology, and the science of human behavior, contributors show how economic growth itself has become uneconomic and adds to a ravaging of both social and ecological cohesion. Guided by a clear moral vision that prioritizes sustainability and justice over profit, the authors provide a blueprint for an economy that replaces quantitative growth with qualitative improvement to enhance human welfare while restoring degraded ecosystems. They present solutions for many of today's challenges ranging from global climate change and biodiversity loss to natural resource depletion. This interdisciplinary work not only relates ecological economics theory to the most urgent predicaments of the contemporary world but also pays tribute to the work of Herman Daly, a leading pioneer of modern ecological economics. Researchers and faculty studying and teaching ecological economics and environmental studies will find value in this unprecedented book. It will also be of interest to practitioners working to solve a variety of global environmental issues. *Anarchism and Ecological Economics*. Ove Daniel Jakobsen, 2018-12-07. *Anarchism and Ecological Economics: A Transformative Approach to a Sustainable Future* explores the idea that anarchism aimed at creating a society where there is as much freedom in solidarity.

as possible may provide an ideal political basis for the goals of ecological economics. It seems clear that it is going to be impossible to solve the problems connected to environmental degradation, climate change, economic crashes, and increasing inequality within the existing paradigm. The anarchist aims of reducing the disparities of rank and income in society and obtaining a high standard of living within environmentally sound ecosystems chime well with the ecological economists' goal of living within our environmental limits for the betterment of the planet and society. The book refers to the UN's sustainability development goals and the goals expressed in the Earth Charter, viewing them through an anarchist's lens. It argues that in order to establish ecological economics as a radical new economy right for the 21st century, neoliberal economics needs to be replaced. By connecting ecological economics to a solid philosophical tradition such as anarchism, it will be easier for ecological economics to become a far more potent alternative to green economic thinking, which is based on and supports the dominant political regime. Innovative and challenging, this book will appeal to students and scholars interested in economics and the politics surrounding it.

Philosophy of Interdisciplinarity Jan Cornelius Schmidt, 2021-12-27. Interdisciplinarity is a hallmark of contemporary knowledge production. This book introduces a Philosophy of Interdisciplinarity at the intersection of science, society, and sustainability. In light of the ambivalence of the technosciences and the challenge of sustainable development in the Anthropocene, this engaged philosophy provides a novel critical perspective on interdisciplinarity in science policy and research practice. It draws upon the original spirit of interdisciplinarity as an environmentalist concept and advocates an essential change in human-nature relations. The author utilizes the rich tradition of philosophy for case study analysis and develops a framework to disentangle the various forms of inter- and transdisciplinarity. *Philosophy of Interdisciplinarity* offers a foundation for a critical reflexive program of interdisciplinarity conducive to a sustainable future for our knowledge society and contributes to fields such as sustainable sciences, social ecology, environmental ethics, technology assessment, complex systems, philosophy of nature, and philosophy of science. It injects a fresh way of thinking on interdisciplinarity and supports researchers as well as science policy makers, university managers, and academic administrators in critical reflexive knowledge production for sustainable development.

The Question of Limits Christian Marrouby, 2018-11-09. We have forgotten how to think about limits. Most philosophical approaches to the environment have focused primarily on the value of the natural world, the status of anthropocentrism, and the Anthropocene, and the largely ethical questions of our impact on the world. While fully acknowledging these concerns, this book emphasizes the centrality of the confrontation between the imperative of growth that has been present since the Enlightenment and our belated rediscovery of limits. The expression 'Limits to Growth', the title of a famous book from 1972 by Donella H. Meadows et al., may have passed into a common discourse, yet the notion of limits itself remains insufficiently theorized or even reflected upon in the current movement of environmental advocacy. Sometimes it even seems as if there is an effort to avoid it. This book argues that on the contrary, we can only resolve the present global challenges by confronting

the question of limits and making it central to our reflection This entails discussing the long history of thinking about limits in which Malthus is the most infamous figure but which also includes such major participants as John Stuart Mill and Karl Marx Ultimately The Question of Limits contends that the value of embracing limits extends beyond the environment and offers the potential to become a transformative social good The Question of Limits will be of great interest to students and scholars working at the intersection of environmental studies economics intellectual history and philosophy

Enjoying the Track of Appearance: An Emotional Symphony within **Beyond Reductionism A Passion For Interdisciplinarity Routledge Studies In Ecological Economics**

In some sort of used by monitors and the ceaseless chatter of immediate communication, the melodic elegance and emotional symphony created by the published term often disappear into the back ground, eclipsed by the constant noise and distractions that permeate our lives. However, nestled within the pages of **Beyond Reductionism A Passion For Interdisciplinarity Routledge Studies In Ecological Economics** a marvelous fictional treasure overflowing with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a wonderful composer of language, this captivating masterpiece conducts visitors on a mental journey, skillfully unraveling the hidden songs and profound affect resonating within each carefully crafted phrase. Within the depths of the emotional evaluation, we shall explore the book is main harmonies, analyze their enthralling writing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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