HOFIC Handbook of Ecological Concepts

Astrid Schwarz · Kurt Jax Editors

# **Ecology Revisited**

Reflecting on Concepts, Advancing Science



**Astrid Schwarz** 

Ecology Revisited Astrid Schwarz, Kurt Jax, 2011-03-18 As concerns about humankind s relationship with the environment move inexorably up the agenda this volume tells the story of the history of the concept of ecology itself and adds much to the historical and philosophical debate over this multifaceted discipline The text provides readers with an overview of the theoretical institutional and historical formation of ecological knowledge The varied local conditions of early ecology are considered in detail while epistemological problems that lie on the borders of ecology such as disunity and complexity are discussed The book traces the various phases of the history of the concept of ecology itself from its 19th century origins and antecedents through the emergence of the environmental movement in the later 20th century to the future and how ecology might be located in the environmental science framework of the 21st century. The study of ecological phenomena has never been confined solely to the work of researchers who consider themselves ecologists It is rather a field of knowledge in which a plurality of practices concepts and theories are developed Thus there exist numerous disciplinary subdivisions and research programmes within the field the boundaries of which remain blurred As a consequence the deliberation to adequately identify the ecological field of knowledge its epistemic and institutional setting is still going on This will be of central importance not only in locating ecology in the frame of 21st century environmental sciences but also for a better understanding of how nature and culture are intertwined in debates about pressing problems such as climate change the protection of species diversity or the management of renewable resources **Ecology Revisited** Astrid Schwarz, Kurt Jax,2011-03-23 As concerns about humankind s relationship with the environment move inexorably up the agenda this volume tells the story of the history of the concept of ecology itself and adds much to the historical and philosophical debate over this multifaceted discipline The text provides readers with an overview of the theoretical institutional and historical formation of ecological knowledge The varied local conditions of early ecology are considered in detail while epistemological problems that lie on the borders of ecology such as disunity and complexity are discussed The book traces the various phases of the history of the concept of ecology itself from its 19th century origins and antecedents through the emergence of the environmental movement in the later 20th century to the future and how ecology might be located in the environmental science framework of the 21st century The study of ecological phenomena has never been confined solely to the work of researchers who consider themselves ecologists It is rather a field of knowledge in which a plurality of practices concepts and theories are developed Thus there exist numerous disciplinary subdivisions and research programmes within the field the boundaries of which remain blurred As a consequence the deliberation to adequately identify the ecological field of knowledge its epistemic and institutional setting is still going on This will be of central importance not only in locating ecology in the frame of 21st century environmental sciences but also for a better understanding of how nature and culture are intertwined in debates about pressing problems such as climate change the protection of species diversity or the

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Experiments in Practice Astrid Schwarz, 2015-10-06 Traditionally experimentation has been understood as an activity performed within the laboratory but in the twenty first century this view is being challenged Schwarz uses ecological and environmental case studies to show how scientific experiments can transcend the laboratory

Green Roof Ecosystems Richard K. Sutton, 2015-06-04 This book provides an up to date coverage of green vegetated roof research design and management from an ecosystem perspective It reviews explains and poses questions about monitoring substrate living components and the abiotic biotic and cultural aspects connecting green roofs to the fields of community landscape and urban ecology The work contains examples of green roof venues that demonstrate the focus level of detail and techniques needed to understand the structure function and impact of these novel ecosystems Representing a seminal compilation of research and technical knowledge about green roof ecology and how functional attributes can be enhanced it delves to explore the next wave of evolution in green technology and defines potential paths for technological advancement and research Evidence Contestation Karin Zachmann, Mariacarla Gadebusch Bondio, Saana Jukola, Olga Sparschuh, 2023-02-21 This book examines the practices of contesting evidence in democratically constituted knowledge societies It provides a multifaceted view of the processes and conditions of evidence criticism and how they determine the dynamics of de and re stabilization of evidence Evidence is an essential resource for establishing claims of validity resolving conflicts and legitimizing decisions In recent times however evidence is being contested with increasing frequency Such contestations vary in form and severity from questioning the interpretation of data or the methodological soundness of studies to accusations of evidence fabrication The contributors to this volume explore which actors for what reasons and to what effect question evidence in fields such as the biological environmental and health sciences In addition to actors inside academia they examine the roles of various other players including citizen scientists counter experts journalists patients consumers and activists The contributors tackle questions of how disagreements are framed and how they are used to promote vested interests By drawing on methodological and theoretical approaches from a wide range of fields this book provides a much needed perspective on how evidence criticism influences the development and state of knowledge societies and their political condition Evidence Contestation will appeal to scholars and advanced students working in philosophy of science epistemology bioethics science and technology studies the history of science and technology and science communication Eduquer à la biodiversité pour un développement durable Patrick Matagne,2012-11-01 Il tait utile d aborder d une autre fa on ce champ o biodiversit et d veloppement s'entrecroisent dans une perspective p dagogique et exp rimentale Ce livre croise les sciences de la nature avec les sciences de l homme et de la soci t Voici un manuel utile aux tudiants enseignants formateurs chercheurs et ducateurs en environnement et d veloppement durable Geoökologisches Modellgebiet "Riesenbecker Osning" Jürgen Lethmate,2013 The Journal of Wildlife Management ,2001

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The Philosopher's Index ,1995 An international index to philosophical periodicals

Psychology Applied to Teaching Jack Snowman, Robert Frederick Biehler, 2006 Scaling up excellence is the key to creating a great organisation It s how a small enterprise expands without losing focus It s how a brilliant new idea or plan developed by the few goes on to be adopted by the many And in hard times and tough situations it s how pockets of smart new thinking overcome cultures of indifference or negativity An organisation that doesn t know how to scale up what is best within it won t achieve long term success Bestselling author Robert Sutton and his Stanford colleague Huggy Rao have devoted nearly a decade to uncovering what it takes to create and spread outstanding performance and in Scaling Up Excellence they share the fruits of their research Drawing on case studies that range from Silicon Valley enterprises to non profit organisations they provide crucial insights into corporate cultures both good and bad and offer a road map for establishing and stimulating excellence In the process they show how to use premortems when making big decisions about change They reveal why seven is so often the magic number when it comes to team size They examine successful and unsuccesful quests for improvement u in hospitals schools and elsewhere And they discuss when a single corporate mindset is best Catholicism and when local variation is preferable Buddhism Scaling Up Excellence is the first management book devoted to what is u or should be u a core priority for every organisation As such it is destined to become the standard bearer

Current Index to Journals in Education ,1992 American Journal of Botany ,1995 Philosophy of Ecology ,2011-05-16 The most pressing problems facing humanity today over population energy shortages climate change soil erosion species extinctions the risk of epidemic disease the threat of warfare that could destroy all the hard won gains of civilization and even the recent fibrillations of the stock market are all ecological or have a large ecological component in this volume philosophers turn their attention to understanding the science of ecology and its huge implications for the human project To get the application of ecology to policy or other practical concerns right humanity needs a clear and disinterested

philosophical understanding of ecology which can help identify the practical lessons of science Conversely the urgent practical demands humanity faces today cannot help but direct scientific and philosophical investigation toward the basis of those ecological challenges that threaten human survival This book will help to fuel the timely renaissance of interest in philosophy of ecology that is now occurring in the philosophical profession Provides a bridge between philosophy and current scientific findings Covers theory and applications Encourages multi disciplinary dialogue The Philosophy of Ecology David R. Keller, Frank B. Golley, 2000 This is the first introductory anthology on the philosophy of ecology edited by an ecologist and a philosopher It illustrates the range of philosophical approaches available to ecologists and provides a basis for understanding the thinking on which many of today s environmental ideas are founded Collectively these seminal readings make a powerful statement on the value of ecological knowledge and thinking in alleviating the many problems of modern industrial civilization Issues covered include the challenges of defining scientific ecology tracing its genealogy and distinguishing the science from various forms of ecological like thinking the ontology of ecological entities and processes selected concepts of community stability diversity and niche the methodology of ecology rationalism and empiricism reductionism and holism the significance of evolutionary law for ecological science Unity Of Nature, The: Wholeness And Disintegration In Ecology And Science Alan Marshall, 2002-10-04 The idea behind The Unity of Nature is a strong theoretical theme in a number of scientific and environmental fields from ecosystems ecology through quantum physics to environmental philosophy and ecopolitics giving rise to an inspiring optimistic socially responsive and environment friendly worldview The fields of science and environmentalism have inherited this theme of natural unity through an intellectual lineage that encompasses many non scientific and non environmental fields such as sociology theology and political philosophy Many of these fields have used natural unity in a way which is in stark opposition to the metaphysical and political desires of those who promulgate the unity of nature for progressive social change This book discusses how this has transpired and examines the social and intellectual processes that have been at work These include the social construction of the Organicism versus Mechanicism debate in ecology the intellectual links between neo classical economic principles and the New Sciences the techno scientific background of Gaia theory and the social conservatism of ecological functionalism The Ecology Book Jean Lightner, Tom Hennigan, 2013-04-15 Study the relationship between living organisms and our place in God's wondrous creation Learn important words and concepts from different habitats around the world to mutual symbiosis as a product of the relational character of God Designed with a multi age level format especially for homeschool educational programs Examine influential Scientists and their work more fully understand practical aspects of stewardship and investigate ecological connections in creation The best selling Wonders of Creation series adds a new biology focused title that unveils the intricate nature of God's world and the harmony that was broken by sin This educational resource is color coded with three educational levels in mind 5th to 6th grades 7th to 8th grades and 9th through 11th grades which can be utilized for

the classroom independent study or homeschool setting Whether used as part of our newly developed science curriculum or simply as a unique unit study the book includes full color photos informative illustrations and meaningful descriptions The text encourages an understanding of a world designed not as a series of random evolutionary accidents but instead as a wondrous well designed system of life around the globe created to enrich and support one another **Ecology** Carolyn Merchant,1999 Critical theorists environmental philosophers and scientists contribute to the ecological discussions about how people can partnership with nature *Ecological Concepts* British Ecological Society. Symposium,1989-01-01

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