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[Toward A Unified Ecology](#)

One day soon ecology and ecological perspectives will have to embrace and contain economics and become the dominant lens through which we look at the human condition. When that day comes, Toward a Unified Ecology will be the rootstock onto which much will be grafted.

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The first edition of Toward a Unified Ecology was ahead of its time. For the second edition, the authors present a new synthesis of their core ideas on evaluating communities, organisms, populations, biomes, models, and management. The book now places greater emphasis on post-normal critiques, cognizant of ever-present observer values in the system.

Toward a Unified Ecology | Columbia University Press

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Book : Toward a unified ecology. 1992 pp.xiv + 384 pp. ref.16 pp. of Abstract : The principles of ecological integration are examined and the following conventional criteria, landscape, ecosystem, community, organism, population, biome and biosphere, for ecological classification, are evaluated in the first 7 chapters.

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One day soon ecology and ecological perspectives will have to embrace and contain economics and become the dominant lens through which we look at the human condition. When that day comes, Toward a Unified Ecology will be the rootstock onto which much will be grafted.

Amazon.com: Toward a Unified Ecology (Complexity in ...

Toward a Unified Ecology is as relevant now as it was over 20 years ago when it was first published. The good news is there is now a new edition that is even better. However, any serious ecologist or conservationist should how a copy of the original version too. I read this as a graduate student and it profoundly influenced my thinking.

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Toward a Unified Ecology places greater emphasis on post-normal critiques, cognizant of ever-present observer values in the system. The problem is how to work holistically on complex things that cannot be defined, and this book continues to define an approach to the problem of scaling in ecosystems.

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The initial edition of Toward a Unified Ecology was a provocative call to rescue ecology from sterile reductionism. In this second edition, the authors present new intellectual approaches to evaluating communities, organisms, populations, biomes, models, and management.

Toward a Unified Ecology (eBook, 2015) [WorldCat.org]

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Toward a Unified Ecology eBook by Timothy Allen ...

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Toward a Unified Ecology : Timothy Allen : 9780231168892

The first edition of Toward a Unified Ecology was ahead of its time, and in this equally groundbreaking text, the authors present a new synthesis of their core ideas on evaluating communities, organisms, populations, biomes, models, and management.

The first edition of Toward a Unified Ecology was ahead of its time. For the second edition, the authors present a new synthesis of their core ideas on evaluating communities, organisms, populations, biomes, models, and management. The book now places greater emphasis on post-normal critiques, cognizant of ever-present observer values in the system. The problem it addresses is how to work holistically on complex things that cannot be defined, and this book continues to build an approach to the problem of scaling in ecosystems. Provoked by complexity theory, the authors add a whole new chapter on the central role of narrative in science and how models improve them. The book takes data and modeling seriously, with a sophisticated philosophy of science.

Two key demands are being made of ecology: that the discipline increasingly be a predictive one; and that ecologists be prepared to consider large-scale systems. These systems become simple or complex based on the level and type of explanation required, and a strict and consistent epistemology is needed in light of new insights into the nature of complexity. T. F. H. Allen and Thomas W. Hoekstra argue that complex systems analysis requires ecologists to distinguish models and to recognize that models must invoke a scale and point of view. Toward a Unified Ecology offers a strategy to attain a unity that brings basic ecology to bear on ecological management. Beginning with hierarchy theory as a basic premise, the book goes on to explain that the conventional "levels"--ecosystems, landscapes, communities, populations, organisms--are not levels in themselves but criteria for observation. The authors assert that the essential character of ecology's subdisciplines is scale-dependent. Putting scale back into systems of well-defined type captures the richness of the connections in the material ecological system. Allen and Hoekstra present a conceptual framework for a more coherent view of ecology, showing how to link the various parts of ecology into a natural whole.

While environmentalists insist that lower rates of consumption of natural resources are essential for a sustainable future, many economists dismiss the notion that resource limits act to constrain modern, creative societies. The conflict between these views tinges political debate at all levels and hinders our ability to plan for the future. Supply-Side Sustainability offers a fresh approach to this dilemma by integrating ecological and social science approaches in an interdisciplinary treatment of sustainability. Written by two ecologists and an anthropologist, this book discusses organisms, landscapes, populations, communities, biomes, the biosphere, ecosystems and energy flows, as well as patterns of sustainability and collapse in human societies, from hunter-gatherer groups to empires to today's industrial world. These diverse topics are integrated within a new framework that translates the authors' advances in hierarchy and complexity theory into a form useful to professionals in science, government, and business. The result is a much-needed blueprint for a cost-effective management regime, one that makes problem-solving efforts themselves sustainable over time. The authors demonstrate that long-term, cost-effective resource management can be achieved by managing the contexts of productive systems, rather than by managing the commodities that natural systems produce.

Biodiversity in Drylands, the first internationally based synthesis volume in the Long-Term Ecological Research (LTER) Network Series, unifies the concepts of species and landscape diversity with respect to deserts. Within this framework, the book treats several emerging themes, among them: how animal biodiversity can be supported in deserts; diversity's relation to habitat structure, environmental variability, and species interactions; the relation between spatial scale and diversity; how to use a landscape simulation model to understand diversity; microbial contributions to biodiversity in deserts; species diversity and ecosystem processes; resource partitioning and biodiversity in fractal environments; effects of grazing on biodiversity; reconciliation ecology and the future of conservation management. In the face of global change, integration is crucial for dealing with the problem of sustaining biodiversity. This book promises to be a vital resource for students, researchers, and managers interested in integrative species, resource, and landscape diversities.

Research papers from the end of twentieth-century have been assembled, alongside expert commentary, for the first collected volume on complexity-based ecology.

The first "urban century" in history has arrived: a majority of the world's population now resides in cities and their surrounding suburbs. Urban expansion marches on, and the planning and design of future cities requires attention to such diverse issues as human migration, public health, economic restructuring, water supply, climate and sea-level change, and much more. This important book draws on two decades of pioneering social and ecological studies in Baltimore to propose a new way to think about cities and their social, political, and ecological complexity that will apply in many different parts of the

world. Readers will gain fresh perspectives on how to study, build, and manage cities in innovative and sustainable ways.

Percy is incredibly accident-prone, and holds the dubious record of the most accidents. Percy has had a small rivalry with Harold, however, they are always willing to help each other when in trouble.

The urgent need for a sustainable environment has resulted in the increased recognition of the field of landscape ecology amongst policy makers working in the area of nature conservation, restoration and territorial planning. Nonetheless, the question of what is precisely meant by the term landscape ecology is still unresolved. No doubt, a proper foundation of the discipline must first be cemented. This book develops such a foundation. In doing so it provides all the diverse applications of the discipline with a solid framework and proposes an effective diagnostic methodology to investigate the ecological state and the pathologies of the landscape.

It is more and more evident that our living system is completely disturbed by human intrusion. Such intrusion affects the functioning of entire systems in ways we do not yet fully understand. We use paradigms such as the disturbance to cover large and deep gaps in our scientific knowledge. Human ecology is an uncertain terrain for anthropologists, geographers, and ecologists and rarely is expanded to include the social and economic realms. The integration of different disciplines and the application of their many paradigms to problems of environmental complexity remains a distant goal despite the many efforts that have been made to achieve it. Philosophical and semantic barriers are erected when such integration is pursued by pioneering scientists. Recently, evolutionary ecology has shown great interest in the spatial processes well described by the emerging discipline of landscape ecology. But this interest takes the form of pure curiosity or at worst, of skepticism toward the real capacity of landscape ecology to contribute to the advancement of ecological science. The past two centuries have been characterized by huge changes occurring in the entire ecosphere. Global changes are the effects of human intervention at a planetary scale, with consequent degradation of the environment creating an ecological debt for future generations. On the other side of the issue, new technologies have improved the welfare of billions of people and have given hope to many other billions that they may also see such improvement in the near future.

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