

# Foundations *of* Ecological Resilience



*Edited by*

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# Foundations Of Ecological Resilience

**Daniel Nelson**



## **Foundations Of Ecological Resilience:**

**Foundations of Ecological Resilience** Lance H. Gunderson, Craig Reece Allen, C. S. Holling, 2012-07-16 Ecological resilience provides a theoretical foundation for understanding how complex systems adapt to and recover from localized disturbances like hurricanes fires pest outbreaks and floods as well as large scale perturbations such as climate change Ecologists have developed resilience theory over the past three decades in an effort to explain surprising and nonlinear dynamics of complex adaptive systems Resilience theory is especially important to environmental scientists for its role in underpinning adaptive management approaches to ecosystem and resource management Foundations of Ecological Resilience is a collection of the most important articles on the subject of ecological resilience those writings that have defined and developed basic concepts in the field and help explain its importance and meaning for scientists and researchers The book s three sections cover articles that have shaped or defined the concepts and theories of resilience including key papers that broke new conceptual ground and contributed novel ideas to the field examples that demonstrate ecological resilience in a range of ecosystems and articles that present practical methods for understanding and managing nonlinear ecosystem dynamics Foundations of Ecological Resilience is an important contribution to our collective understanding of resilience and an invaluable resource for students and scholars in ecology wildlife ecology conservation biology sustainability environmental science public policy and related fields [Routledge Handbook of Ecological and Environmental Restoration](#)

Stuart K. Allison, Stephen D. Murphy, 2017-05-18 Ecological restoration is a rapidly evolving discipline that is engaged with developing both methodologies and strategies for repairing damaged and polluted ecosystems and environments During the last decade the rapid pace of climate change coupled with continuing habitat destruction and the spread of non native species to new habitats has forced restoration ecologists to re evaluate their goals and the methods they use This comprehensive handbook brings together an internationally respected group of established and rising experts in the field The book begins with a description of current practices and the state of knowledge in particular areas of restoration and then identifies new directions that will help the field achieve increasing levels of future success Part I provides basic background about ecological and environmental restoration Part II systematically reviews restoration in key ecosystem types located throughout the world In Part III management and policy issues are examined in detail offering the first comprehensive treatment of policy relevance in the field while Part IV looks to the future Ultimately good ecological restoration depends upon a combination of good science policy planning and outreach all issues that are addressed in this unrivalled volume

*The Smartness Mandate* Orit Halpern, Robert Mitchell, 2023-01-10 Over the last half century smartness the drive for ubiquitous computing has become a mandate a new mode of managing and governing politics economics and the environment Smart phones Smart cars Smart homes Smart cities The imperative to make our world ever smarter in the face of increasingly complex challenges raises several questions What is this smartness mandate How has it emerged and what

does it say about our evolving way of understanding and managing reality How have we come to see the planet and its denizens first and foremost as data collecting instruments In *The Smartness Mandate* Orit Halpern and Robert Mitchell radically suggest that smartness is not primarily a technology but rather an epistemology Through this lens they offer a critical exploration of the practices technologies and subjects that such an understanding relies upon above all artificial intelligence and machine learning The authors approach these not simply as techniques for solving problems of calculations but rather as modes of managing life human and other in terms of neo Darwinian evolution distributed intelligences and resilience all of which have serious implications for society politics and the environment The smartness mandate constitutes a new form of planetary governance and Halpern and Mitchell aim to map the logic of this seemingly inexorable and now naturalized demand to compute to illuminate the genealogy of how we arrived here and to point to alternative imaginaries of the possibilities and potentials of smart technologies and infrastructures *Ecology* Jaboury Ghazoul,2020-08-27

Understanding how our living environment works is essentially a study of ecological systems Ecology is the science of how organisms interact with each other and with their environment and how such interactions create self organising communities and ecosystems This science touches us all The food we eat the water we drink the natural resources we use our physical and mental health and much of our cultural heritage are to a large degree products of ecological interactions of organisms and their environment This *Very Short Introduction* celebrates the centrality of ecology in our lives Jaboury Ghazoul explores how ecology has evolved rapidly from natural history to become a predictive science that explains how the natural world works and which guides environmental policy and management decisions Drawing on a range of examples he shows how ecological science can be applied to management and conservation including the extent to which theory has shaped practice Ecological science has also shaped social and cultural perspectives on the environment a process that influences politics of the environment Ghazoul concludes by considering the future of ecology particularly in the light of current and future environmental challenges ABOUT THE SERIES The *Very Short Introductions* series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable *Ecosystem-Based Adaptation* Noralene Uy,Rajib Shaw,2012-12-14 Ecosystems are often examined from a ecological perspective because of the importance of biodiversity and ecosystem services This book makes a case for ecosystem based adaptation by arguing that ecosystems and its services are critical in the climate change and disaster risk reduction fields **Literature and sustainability** Adeline Johns-Putra,John Parham,Louise Squire,2017-08-16 This electronic version has been made available under a Creative Commons BY NC ND open access license How might literary scholarship engage with the sustainability debate Aimed at research scholars and advanced students in literary and environmental studies this collection brings together twelve essays by leading and up coming scholars on the theme of

literature and sustainability In today's sociopolitical world sustainability has become a ubiquitous term yet one potentially driven to near meaninglessness by the extent of its usage While much has been written on sustainability in various domains this volume sets out to foreground the contributions literary scholarship might make to notions of sustainability both as an idea with a particular history and as an attempt to reconceptualise the way we live Essays in this volume take a range of approaches using the tools of literary analysis to interrogate sustainability's various paradoxes and to examine how literature in its various forms might envisage notions of sustainability

*The Wiley Blackwell Companion to Tourism* C. Michael Hall, 2024-08-26 The first authoritative overview of tourism studies published post COVID 19 The Wiley Blackwell Companion to Tourism remains a definitive reference in this interdisciplinary field Edited and authored by leading scholars from around the world this state of the art volume provides a comprehensive critical overview of tourism studies across the social sciences In depth yet accessible chapters combine established theories and cutting edge developments and analysis addressing a wide range of current and emerging topics issues debates and themes The second edition of the Companion reflects the complexity of the changing field incorporating new developments diverse theories core themes and fresh perspectives throughout New and revised chapters explore the organization and practice of tourism pressing health economic social and environmental challenges the impact of the COVID 19 pandemic on tourism and the tourist industry empowerment placemaking mindfulness and wellbeing resident attitudes towards tourism Chinese outbound tourism public transport long distance walking and more Covers the full spectrum of tourism studies including its connections to geography sociology urban studies sustainability marketing management globalization and policy Outlines exciting new and emerging approaches theoretical foundations and major developments in tourism studies Offers perspectives on major topics including the role of tourism in the Anthropocene global and local change resilience innovation and consumer and business behavior Sets an agenda for future tourism research and reviews significant issues in theory method and practice Features new contributions from an international panel of younger scholars and established researchers With a wealth of up to date bibliographic references and extensive coverage of the tourism related literature The Wiley Blackwell Companion to Tourism Second Edition is required reading for undergraduate students postgraduate researchers lecturers and academic scholars in tourism studies tourism management tourism geography tourism theory sociology urban studies and globalization as well as professionals working in tourism and hospitality management worldwide

**The Wiley Blackwell Companion to Tourism** Alan A. Lew, C. Michael Hall, Allan M. Williams, 2014-04-02 The Wiley Blackwell Companion to Tourism presents a collection of readings that represent an essential and authoritative reference on the state of the art of the interdisciplinary field of tourism studies Presents a comprehensive and critical overview of tourism studies across the social sciences Introduces emerging topics and reassesses key themes in tourism studies in the light of recent developments Includes 50 newly commissioned essays by leading experts in the social sciences from around the world Contains cutting edge perspectives on

topics that include tourism's role in globalization sustainable tourism and the state's role in tourism development Sets an agenda for future tourism research and includes a wealth of bibliographic references

**Navigating Through Changing Times** Anne Eskola, 2017-10-04 Complexity theory including the concepts of chaos and emergence has been considered one of the most revolutionary products of the 20th century having influence on science technology and economics among others Any complex systems such as organisms societies stock market or the Internet have emergent properties that cannot be reduced to the mere properties of their parts The theory has been used in organizational studies and strategic management where it offers an alternative way to look at organizations The theory rejects the idea of organizations seen as machines and a planned approach to organizational change Instead the theory underlines understanding on how organizations adapt to their environments Complexity theory suggests that organizations tend to self organize themselves to a state where they regulate themselves Complexity theory would advocate for approaches that focus on flatter more flexible organizations It shifts focus from management control to self organization and individual interrelations between different people The aim of Navigating through Changing Times Knowledge Work in Complex Environment is to give insights on how complexity has changed the environment of many business organizations The book aims at identifying and discussing special features of business organizations performing knowledge work in a knowledge oriented economy Navigating through Changing Times Knowledge Work in Complex Environment will be vital reading for those scholar and researchers in the fields of knowledge and wisdom management as well as organizational behavior and communication HRM strategy culture change and development and other related disciplines

Valuing Nature's Time Syeda Tayyaba Ijaz, 2025-01-16 Valuing Nature's Time Integrating Temporality into Financial Decision Making for Sustainable Development offers an innovative exploration of the intricate relationship between finance ethics and environmental sustainability This book delves into the concept of the time value of nature highlighting the critical importance of considering the long term impacts of financial decisions on natural ecosystems and future generations Through a multidisciplinary lens drawing from ecological economics environmental ethics and finance it critiques traditional financial valuation methods and proposes new approaches for integrating temporality into investment appraisal processes By emphasizing ethical considerations such as intergenerational equity and environmental justice this book provides actionable insights for policymakers investors and businesses seeking to promote sustainable development and responsible stewardship of natural resources Valuing Nature's Time is essential reading for anyone interested in shaping a more sustainable and equitable future

**Agent-Based Modeling of Environmental Conflict and Cooperation** Todd BenDor, Jürgen Scheffran, 2018-10-12 Conflict is a major facet of many environmental challenges of our time However growing conflict complexity makes it more difficult to identify win win strategies for sustainable conflict resolution Innovative methods are needed to help predict understand and resolve conflicts in cooperative ways Agent Based Modeling of Environmental Conflict and Cooperation examines computer modeling techniques as an important set of tools for

assessing environmental and resource based conflicts and ultimately for finding pathways to conflict resolution and cooperation This book has two major goals First it argues that complexity science can be a unifying framework for professions engaged in conflict studies and resolution including anthropology law management peace studies urban planning and geography Second this book presents an innovative framework for approaching conflicts as complex adaptive systems by using many forms of environmental analysis including system dynamics modeling agent based modeling evolutionary game theory viability theory and network analysis Known as VIABLE Values and Investments from Agent Based interaction and Learning in Environmental systems this framework allows users to model advanced facets of conflicts including institution building coalition formation adaptive learning and the potential for future conflict and conflict resolution based on the long term viability of the actors strategies Written for scholars students practitioners and policy makers alike this book offers readers an extensive introduction to environmental conflict research and resolution techniques As the result of decades of research the text presents a strong argument for conflict modeling and reviews the most popular and advanced techniques including system dynamics modeling agent based modeling and participatory modeling methods This indispensable guide uses NetLogo a widely used and free modeling software package to implement the VIABLE modeling approach in three case study applications around the world Readers are invited to explore adapt modify and expand these models to conflicts they hope to better understand and resolve

*Strategic Japan* Michael J. Green, Zack Cooper, 2014-11-06 Is Japan capable of grand strategy when it comes to foreign policy Modern Japan faces challenges on every front from a rising China and constrained economic growth at home to an ever present threat posed by an increasingly unstable North Korea to an evolving and complex relationship with the West that for so long has served as the bedrock of Japanese foreign policy Prime Minister Shinzo Abe has garnered significant attention for his policies undergirding a path of proactive pacifism for Japan but many questions remain unanswered with regard to what Japan's global role ought to be what it can be and what that role's development would mean for the greater stability of the region and the fate of broader geopolitical alliances across the world While it is clear that both Japan and its allies would be best served by a clear comprehensive and forward thinking Japanese foreign policy blueprint but actually developing and implementing such a policy is understandably easier said than done Fortunately shaping this new strategy is a generation of Japanese foreign policy experts with eyes toward the future of Japanese power and diplomacy In *Strategic Japan* New Approaches to Foreign Policy and the U S Japan Alliance five preeminent scholars Yasuhiro Matsuda Tetsuo Kotani Hiroyasu Akutsu Yoshikazu Kobayashi and Nobuhiro Aizawa discuss Japan's changing role in the world and the high stakes policy issues affecting Japan Asia and the world today Taken together these experts contributions highlight potential areas for enhanced cooperation between the United States and Japan at a time when the West desperately needs a confident and proactive Japan and Japan needs sustained American engagement and deterrence in an Asia Pacific region that will continue to be the site of economic growth and expansion for years to come

**The Routledge Companion to Smart Design Thinking in Architecture & Urbanism for a Sustainable, Living Planet** Mitra Kanaani, 2024-11-11 This comprehensive companion surveys intelligent design thinking in architecture and urbanism investigates multiple facets of smart approaches to design thinking that augment the potentials of user experiences as well as his/her physical and mental interactions with the built environment Split into six paradigms this volume looks at the theoretical and historical background of smart design smart design methodologies and typologies smart materials smart design for extreme weather and climatic regions as well as climate change issues and side effects smart mobility and the role of digital technologies and simulations in architectural and urban design Often at odds with each other this volume places emphasis on smart design for various typologies and user groups emphasizing on advancements in form making and implementation of technology for healthy and sustainable living environments Written by emerging and established architects planners designers scientists and engineers from around the globe this will be an essential reference volume for architecture and urban design students and scholars as well as those in related fields interested in the implications various facets and futures of smart design

*Nature's Burdens* Daniel Nelson, 2017-05-15 *Nature's Burdens* is a political and intellectual history of American natural resource conservation from the 1980s into the twenty-first century a period of intense political turmoil shifting priorities among federal policymakers and changing ideas about the goals of conservation Telling a story of persistent activism conflict and frustration but also of striking achievement it is an account of how new ideas and policies regarding human relationships to plants animals and their surroundings have become vital features of modern environmentalism In the 1960s and 1970s Congress embraced the largely dormant movement to preserve distinctive landscapes and the growing demand for outdoor recreation establishing an unprecedented number of parks monuments and recreation areas The election of Ronald Reagan and a shift to a Republican controlled Senate brought this activity to an abrupt halt and introduced a period of intense partisanship and legislative gridlock that extends to the present In this political climate three developments largely defined the role of conservation in contemporary society environmental organizations have struggled to defend the legal status quo private land conservation has become increasingly important and the emergence of potent scientific voices has promoted the protection of animals and plants and injected a new sense of urgency into the larger cause These developments mark this period as a distinctive and important chapter in the history of American conservation Scrupulously researched scientifically and politically well informed concise and accessibly written *Nature's Burdens* is the most comprehensive examination of recent efforts to protect and enhance the natural world It will be of interest to environmental historians environmental activists and any general reader interested in conservation

*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 the 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 Education, Nature, and Society Stephen Gough, 2014-11-20 Environmental issues continue to divide opinion sometimes in extreme ways Almost everyone agrees that education has a role to play in ensuring the future of humanity on Earth Some think we should all learn to leave a minimal environmental footprint others argue that education should promote economic growth because only growth can generate the capital needed to develop solutions to environmental problems Advocates on each side often find the views of their opponents simply incredible giving rise to accusations of bad faith or poor science This book explores the foundations of the debate by examining human interrelations with Nature It takes an educational perspective but also draws on evidence from anthropology economics ecology policy sciences and natural history The case presented is that any coherent view of the purposes and potential of education requires a theory of human society in the natural world For such a theory education and more broadly learning must be more than an instrument for the achievement of personal or policy goals Rather it is an integral continuing and necessary component of personal and policy development On this basis a novel

approach to curriculum design and implementation is outlined

**The Equitably Resilient City** Zachary B. Lamb, Lawrence J. Vale, 2024-10-01 Twelve global planning and urban design interventions and what they reveal about equity centered urban resilience in the face of climate change Hillside favelas in South America imperiled by landslides Flood threatened mobile home parks on the American Gulf Coast Canal side settlements facing eviction in megacities in Southeast Asia Too often the places most vulnerable to climate change are the ones that are home to people with the fewest economic and political resources And while some leaders are starting to take action to reduce climate risks many early adaptation schemes have actually made preexisting inequalities worse In *The Equitably Resilient City* Zachary Lamb and Lawrence Vale ask how cities can adapt to climate change and other threats while also doing right by disadvantaged residents Lamb and Vale's model for the equitably resilient city includes four central domains 1 environmental safety and vitality 2 security from displacement 3 stable and dignified livelihoods and 4 enhanced self governance These principles represent the four LEGS Livelihoods Environment Governance and Security of equitable resilience To illustrate these core principles the book draws on 12 case studies from settlements facing a range of hazards across diverse geographies in the Global North and South from heat stress in Paris to drought in Bolivia to floods in Bangkok and New Orleans Offering concrete strategies in the form of planning community action and design interventions Lamb and Vale show that equitable urban resilience is not a pipe dream nor an abstract ethical proposition but an achievable reality grounded in struggle and solidarity

Defining the Urban Deljana Iossifova, Christopher N.H Doll, Alexandros Gasparatos, 2017-10-02 What is urban How can it be described and contextualised How is it used in theory and practice Urban processes feature in key international policy and practice discourses They are at the core of research agendas across traditional academic disciplines and emerging interdisciplinary fields However the concept of the urban remains highly contested both as material reality and imaginary construct The urban remains imprecisely defined *Defining the Urban* is an indispensable guide for the urban transdisciplinary thinker and practitioner Parts I and II focus on how Academic Disciplines and Professional Practices respectively understand and engage with the urban Included among others are Architecture Ecology Governance and Sociology Part III Emerging Approaches outlines how elements from theory and practice combine to form transdisciplinary tools and perspectives Written by eminent experts in their respective fields *Defining the Urban* provides a stepping stone for the development of a common language a shared ontology in the disjointed fields of urban research and practice It is a comprehensive and accessible resource for anyone with an interest in understanding how urban scholars and practitioners can work together on this complex theme

**Rethinking the Law of Private Property** Jan G. Laitos, 2025-07-15 In *Rethinking the Law of Private Property* eminent legal scholars consider how private property rights might be transformed and realigned to better cope with modern challenges They rethink current paradigms around private property and natural resource ownership in light of police power regulations health rules and expanded land use regulations

*Weeds and the Carolingians* Paolo Squatriti, 2022-06-09 Why

did weeds matter in the Carolingian empire What was their special significance for writers in eighth and ninth century Europe and how was this connected with the growth of real weeds In early medieval Europe unwanted plants that persistently appeared among crops created extra work reduced productivity and challenged theologians who believed God had made all vegetation good For the first time in this book weeds emerge as protagonists in early medieval European history driving human farming strategies and coloring people s imagination Early medieval Europeans effort to create agroecosystems that satisfied their needs and cosmologies that confirmed Christian accounts of vegetable creation both had to come to terms with unruly plants Using diverse kinds of texts fresh archaeobotanical data and even mosaics this interdisciplinary study reveals how early medieval Europeans interacted with their environments

## Reviewing **Foundations Of Ecological Resilience**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Foundations Of Ecological Resilience**," an enthralling opus penned by a highly acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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### **Foundations Of Ecological Resilience Introduction**

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