

Foundations *of* Ecological Resilience



Edited by

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Foundations Of Ecological Resilience

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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 *Advances in Production Management Systems.*

Cyber-Physical-Human Production Systems: Human-AI Collaboration and Beyond Hajime Mizuyama, Eiji Morinaga, Tomomi Nonaka, Toshiya Kaihara, Gregor von Cieminski, David Romero, 2025-09-27 The six volume set IFIP AICT 764 769 constitutes the refereed proceedings of the 44th IFIP WG 5 7 International Conference on Advances in Production Management Systems APMS 2025 held in Kamakura Japan from August 31st to September 4th 2025 The 227 full papers presented in these proceedings were carefully reviewed and selected from 247 submissions which cover a broad array of research and technological developments on the present and future of Cyber Physical HUMAN Production Systems They were categorized under the following topical sections Part I Human centred Work Systems for the Operator 4 0 5 0 in Manufacturing Logistics and Service Domains AI Driven Decision Support and Human AI Collaboration for Smart and Sustainable Supply Chains Digital Twins and AI for Dynamic Scheduling and Human Centric Applications Part II Smart Manufacturing Evolution Integrating AI and the Digital Twin for Human centric Circular and Collaborative Production Systems Human centered Service Engineering and Digital Transformation for Sustainable Service Industries Shaping Human Capital for Industry 5 0 Skills Knowledge and Technologies for Human centric Resilient and Sustainable Manufacturing Experiential Learning in Engineering Education Theoretical and Practical Advances in Human centric Resilient and Sustainable Supply Chain Management Maintenance and Asset Lifecycle Management for Sustainable and Human centered Production Methods and Tools for Assessing the Value of Digital Sustainable and Servitized Offerings of Manufacturing Companies Part III Digital

Transformation Approaches in Production and Management Digital Technologies in Manufacturing and Logistics Exploring Digital Twin IoT and Additive Manufacturing Enhancing the Value Creation Mechanisms of Manufacturing Value Chains through Digital Platforms Circular strategies and Servitization Principles Part IV Enhancing Value Chain Resilience through Digital Technologies How Supply Chain Can React to Internal and External Disruptions Mechanism Design for Production Service and Supply Chain Management Transforming Engineer to Order Projects Supply Chains and Systems Designing Next Generation Lean Models Supporting Social Sustainable and Smart Production Systems Part V Advancing Eco efficient and Circular Industrial Practices Upgrade Circular Economy for the Manufacturing Industry Cyber Physical System Based Approaches to Achieve Sustainability Industrial Data Spaces and Sustainability Enabling Circularity in Batteries Circular and Green Manufacturing Sustainable Product Design and Engineering Part VI Digital Services and Smart Product Service Systems Innovative Approaches and Methods for Developing Industry 4 0 and Industry 5 0 Skills Scheduling and Production Planning in Smart Manufacturing Supply Network Planning and Optimization Artificial Intelligence Machine Learning in Manufacturing Cloud and Collaborative Technologies Simulation of Production and Supply Chains

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

Literature and sustainability Adeline Johns-Putra, John Parham, Louise Squire, 2017-08-16 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 An electronic edition of this book is freely available under a Creative Commons CC BY NC ND licence

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

Drylands under the Influence of Climate Change and Human Activities Zhiming Han, Mou Leong Tan, Jing Zhao, Xiaoping Wang, Song Feng, 2025-12-19 Covering over 40 percent of the Earth's land area and inhabited by more than 38 percent of the world's population drylands are very sensitive to climate change and human activities These areas characterized by low soil fertility possess a heightened vulnerability to both climate warming and land degradation due mostly to human activities Numerous studies have highlighted the expansion of drylands in the context of global warming Therefore maintaining the ecological balance and ensuring sustainable economic development of the drylands are critical for the overall global environment and economy The escalating drought exacerbated warming and rapid population growth are intensifying dryland expansion resulting in a multitude of potential risks such as reduced carbon sequestration regional warming land degradation and desertification As environmentally sensitive and economically vulnerable areas the ecosystems and society in drylands will confront even more formidable challenges in a future warmer world with a rapidly growing population Hence there is an urgent need for in depth exploration and understanding of the change in dryland regions and their underlying mechanisms The objective of this Research Topic is to explore the change in drylands and the underlying mechanisms in the context of climate change and human activities This endeavor will play a pivotal role in enhancing our comprehension and formulation of appropriate mitigation and adaptive strategies contributing to global stability and sustainable development Contributions must improve our knowledge and understanding of dryland change processes and may include topics such as but not limited to the following Climate change and dryland expansion Hydroclimatic variability in drylands and their underlying physical mechanisms Land air system interactions in drylands Past and future changes of weather and climate extremes in drylands

Changes in water and energy balance and the driving forces Modeling the water carbon cycle in dryland ecosystems
Response of dryland vegetation to climate change and human activities Change in ecosystem patterns and enhancement of services in drylands Biogeochemical cycles and fluxes e g carbon geochemistry and isotopes **Foundations of Environmental Ethics** Eugene C. Hargrove,1989 In this book the author examines the history of ideas that has produced the conflict between Western environmentalism and other Western traditions *Mémoires de la Société finno-ougrienne* Suomalais-ugrilainen Seura,2012 Spatial Analysis for Complex Territorial Systems Luca Salvati,2026-02-21 Spatial Analysis for Complex Territorial Systems Geo information Technologies and European Official Statistics offers a multidisciplinary exploration of spatial analysis geo information technologies and official statistics focusing on their applications in environmental economic and planning challenges in Europe and the Mediterranean Comprising 16 insightful chapters authored by leading scholars from Southern and Eastern Europe Ireland and the United States the book delves into the complexities of socio ecological monitoring through data integration and refined statistical indicators Key topics include climate monitoring land degradation settlement patterns and disaster resilience providing a comprehensive understanding of local contexts and policy implications The book begins with contributions from a traditional ecological agronomic and environmental vision then continues with a set of studies with stricter socio demographic and economic focus It then discusses how other quantitative approaches e g based on big data and primary surveys may clarify the role of policies and planning addressing sustainable development goals in the kaleidoscopic European landscapes Conclusions confirm the urgent need of integrating the vast potential of geo information techniques together with spatial analysis and official statistics into more flexible sustainable development strategies that reflect local conditions and spatially explicit background contexts Offers a multidisciplinary perspective that bridges theoretical frameworks with practical applications making it an invaluable resource for academics students policymakers and practitioners across various fields Presents 15 representative case studies that illustrate practical applications of geo information tools making complex socio ecological phenomena accessible to both seasoned researchers and newcomers to quantitative techniques Analyzes the role of policies targeting sustainable development goals within diverse European contexts emphasizing the necessity for place specific approaches Discusses innovative methodologies for monitoring and assessing environmental conditions including remote sensing and big data integration providing readers with cutting edge insights into contemporary research **Silva lusitana** ,2011

Social-Ecological Resilience and Law Ahjond S. Garmestani,Craig R. Allen,2014-02-25 Environmental law envisions ecological systems as existing in an equilibrium state reinforcing a rigid legal framework unable to absorb rapid environmental changes and innovations in sustainability For the past four decades resilience theory which embraces uncertainty and nonlinear dynamics in complex adaptive systems has provided a robust invaluable foundation for sound environmental management Reforming American law to incorporate this knowledge is the key to sustainability This volume

features top legal and resilience scholars speaking on resilience theory and its legal applications to climate change biodiversity national parks and water law Social-Ecological Resilience and Sustainability Shelley Ross Saxer,Jonathan Rosenbloom,2018-02-22 Social Ecological Resilience and Sustainability by Shelley Ross Saxer and Jonathan Rosenbloom is designed to help students understand and address new changing and complex economic environmental and social systems This book introduces resilience and sustainability as analytical frameworks and illustrates how these concepts apply in various contexts water food shelter land use energy natural resources pollution disaster law and climate change The first two chapters Part I provide students with a conceptual foundation to explore the interdisciplinary nature of resilience and sustainability and the meanings of complexities embedded in and the overlap and differences between these frameworks Each of the remaining eight chapters Part II views resilience and sustainability in a specific law and policy context Strategically placed throughout Part II the authors describe eight useful tools Strategies to Facilitate Implementation to help identify assess integrate or utilize resilience and sustainability as analytical frameworks Key Features A two part approach that first provides students with a conceptual foundation and then allows students to view resilience and sustainability in eight law and policy contexts described above Numerous graphics throughout to illustrate concepts depict events described and otherwise enliven the content Case studies that examine human decisions that led to unsustainable and non resilient systems and societies New and innovative ways to explain complex systems and in turn rethink traditional notions of law and policy *Foundations of Social Work Practice in the Field of Aging* Roberta Rubin Greene,2007 The aging of societies is a global phenomenon In the United States alone the life expectancy for both men and women will continue to increase over the next few decades and with that a population explosion of older adults The dramatic increase in the number and diversity of older adults elevates the visibility of gerontological matters As a result social work practice is becoming more multigenerational thereby demanding social workers regardless of their professional endeavors to be equipped with the most innovative theories and practices to serve older adults and their families This comprehensive text spans the new knowledge and skills required in direct practice areas group work and macro practice It also outlines the Geriatric Social Work Competencies as developed by social work educators necessary to serve the older adult population and suggests how these competencies can be integrated into foundation curriculum Social work educators students practitioners administrators and policymakers will find updated useful information in this text regarding assessment tools cultural influences evidence based practices intervention techniques theoretical examples Individuals are living longer and healthier lives in part because of the extraordinary growth of biomedical knowledge and public health initiatives The confluence of the rapid and large increase of the older population and the exponential increase in the dissemination of knowledge create an imperative for social workers to employ the most recent knowledge in their practice with people living increasingly long lives JoAnn Damron Rodriguez Department of Social Welfare University of California Los Angeles *Assessing Assisted Migration as a Climate Change*

Adaptation Strategy for Ontario's Forests Ngairé Eskelin, 2011 Assisted migration of tree species populations or seed sources is one of few adaptive strategies available to mitigate the projected effects of climate change on the structure productivity and distribution of forest ecosystems In this report the authors present the goals and objectives of a study initiated in 2008 to assess the potential of assisted migration as an adaptation strategy to manage for climate change in Ontario In support of this study they conducted a literature search on assisted migration and genetic variation in climatic response of forest tree species through which were identified several hundred related scientific and technical publications Citations and keywords for publications of greatest significance to using assisted migration as a climate change adaptation strategy are presented in the accompanying bibliography Document **Denver Journal of International Law and Policy**, 2013 *Resilience in Social-Ecological Systems* Marianne E. Krasny, Cecilia Lundholm, Ryan Plummer, 2013-10-18 Resilience thinking challenges us to reconsider the meaning of sustainability in a world that must constantly adapt in the face of gradual and at times catastrophic change This volume further asks environmental education and resource management scholars to consider the relationship of environmental learning and behaviours to attributes of resilient social ecological systems attributes such as ecosystem services innovative governance structures biological and cultural diversity and social capital Similar to current approaches to environmental education and education for sustainable development resilience scholarship integrates social and ecological perspectives The authors of *Resilience in social ecological systems* the role of learning and education present a wealth of perspectives integrating theory with reviews of empirical studies in natural resource management and in youth adult and higher education The authors explore the role of education and learning in helping social ecological systems as they respond to change through adaptation and transformation This book also serves to integrate a growing literature on resilience and social learning in natural resources management with research in environmental education and education for sustainable development This book was originally published as a special issue of *Environmental Education Research*

Boletín de la Sociedad Internacional de la Ciencia Del Suelo International Society of Soil Science, 1993 **Foundations of Restoration Ecology** Society for Ecological Restoration International, 2016-11 Society for Ecological Restoration Cover **Ecological Integrity** David Pimentel, Laura Westra, Reed F. Noss, 2000-11 Global Integrity Project has brought together leading scientists and thinkers from around the world to examine the combined problems of threatened and unequal human well being degradation of the ecosphere and unsustainable economies Based on the proposition that healthy functioning ecosystems are a necessary prerequisite for both economic security and social justice the project is built around the concept of ecological integrity and its practical implications for policy and management *Ecological Integrity* presents a synthesis and findings of the project Contributors including Robert Goodland James Karr Orié Loucks Jack Manno William Rees Mark Sagoff Robert Ulanowicz Philippe Crabbe Laura Westra David Pimentel Reed Noss and others examine the key elements of ecological integrity and consider what happens when integrity is lost or compromised The book examines historical and

philosophical foundations of the concept of ecological integrity explores how integrity can be measured examines the relationships among ecological integrity human health and food production looks at economic and ethical issues that need to be considered in protecting ecological integrity offers concrete recommendations for reversing ecological degradation while promoting social and economic justice and welfare Contributors argue that there is an urgent need for rapid and fundamental change in the ecologically destructive patterns of collective human behavior if society is to survive and thrive in coming decades Ecological Integrity is a groundbreaking book that integrates environmental science economics law and ethics in problem analysis synthesis and solution and is a vital contribution for anyone concerned with interactions between human and planetary health *Collection of Foundation Day & Lovraj Kumar Memorial Lectures* Society for Promotion of Wastelands Development (India),2006 Collection of contributed articles predominantly on watershed development and environment related issues with reference to India

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