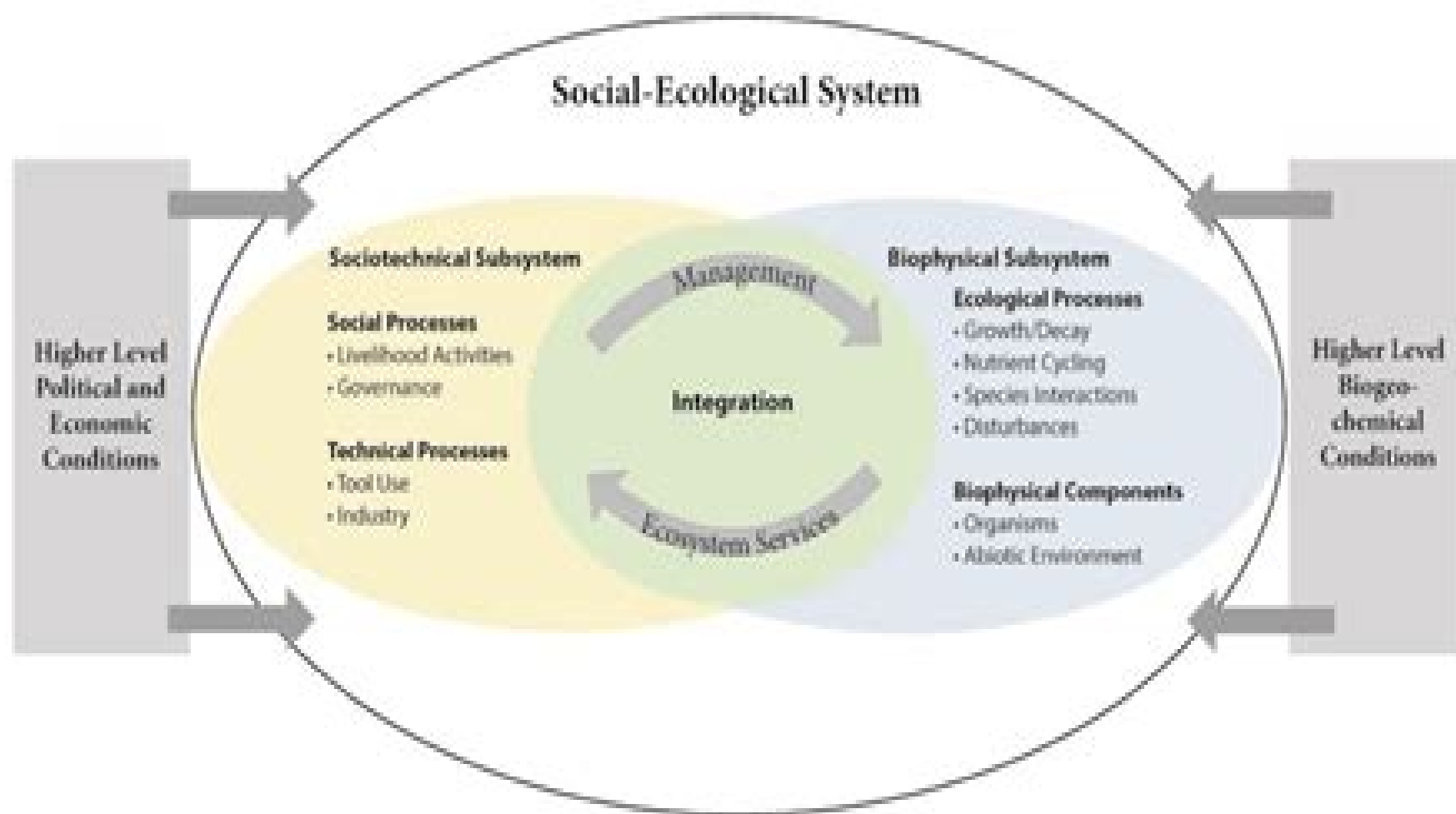


# A Socio-ecological System Holon



# Social And Ecological Systems

**Lingsheng Yao**



## **Social And Ecological Systems:**

*Linking Social and Ecological Systems* Fikret Berkes, Carl Folke, Johan Colding, 2000-04-13 It is usually the case that scientists examine either ecological systems or social systems yet the need for an interdisciplinary approach to the problems of environmental management and sustainable development is becoming increasingly obvious Developed under the auspices of the Beijer Institute in Stockholm this new book analyses social and ecological linkages in selected ecosystems using an international and interdisciplinary case study approach The chapters provide detailed information on a variety of management practices for dealing with environmental change Taken as a whole the book will contribute to the greater understanding of essential social responses to changes in ecosystems including the generation accumulation and transmission of ecological knowledge structure and dynamics of institutions and the cultural values underlying these responses A set of new or rediscovered principles for sustainable ecosystem management is also presented *Linking Social and Ecological Systems* will be of value to natural and social scientists interested in sustainability

**Navigating Social-Ecological Systems** Fikret Berkes, Johan Colding, Carl Folke, 2008-04-24 In the effort towards sustainability it has become increasingly important to develop conceptual frames to understand the dynamics of social and ecological systems Drawing on complex systems theory this book investigates how human societies deal with change in linked social ecological systems and build capacity to adapt to change The concept of resilience is central in this context Resilient social ecological systems have the potential to sustain development by responding to and shaping change in a manner that does not lead to loss of future options Resilient systems also provide capacity for renewal and innovation in the face of rapid transformation and crisis The term navigating in the title is meant to capture this dynamic process Case studies and examples from several geographic areas cultures and resource types are included merging forefront research from natural sciences social sciences and the humanities into a common framework for new insights on sustainability

*Social-Ecological Systems in Transition* Shoko Sakai, Chieko Umetsu, 2014-08-12 This book presents an overview of current knowledge about social ecological systems SESs a productive new field dedicated to understanding the relationships between human society and nature To make the reader aware of how SESs are necessary to maintain our society the book begins with a broad perspective about what social ecological systems are and what the related research issues in this field are as well The second part discusses how human activities have changed ecosystems from temperate grasslands to tropical areas The third part focuses on the adaptability of societies to unpredictable fluctuation in ecosystems while the last part summarizes factors for the resilience of society against social and ecological shocks Human activities have severely degraded most natural ecosystems which are now in critical condition Various approaches have been developed to improve the SESs to understand environmental problems and explore better ways to increase the sustainability both of ecosystems and of human societies However a clear perspective on how to address such problems is still lacking Part of the difficulty arises because of the diversity and complexity of

ecosystems and human societies Another important factor is the effect of extremely rapid changes in the social and economic characteristics of social ecological systems Consequently adaptability and resilience clearly are essential for the sustainability of SESs Although there is no one direct method to achieve high adaptability and resilience a possible way is to compare and understand the diverse problems associated with differing social ecological systems This published work makes a useful contribution to a greater understanding of the way that essential social responses linked to changes in ecosystems can potentially stimulate further research on this important and interesting subject The book will attract the attention of scholars in environmental sciences ecology and sociology and indeed of anyone interested in the concept of social ecological systems

*Social-Ecological Systems (SES)* Mohamed Behnassi, Himangana Gupta, Mahjoub El Haiba, Gopichandran Ramachandran, 2021-07-12 This book contributes to the multidisciplinary debate about social ecological systems SES within the perspective of rethinking the nature of interaction between these systems especially in the Anthropocene Era Most chapters either deliberate on risk dynamics threatening current SES or stimulate thought processes to manage such risks and related negative implications After analyzing the main drivers of SES vulnerability the book highlights the shifts to be made to enhance the sustainability and resilience of these systems mainly the integration and restructuring of governance frameworks the reorganization of production and consumption systems far from conventional models based on consumerism the elaboration of mitigation adaptation and SDGs implementation measures from a co benefit perspective and the consideration of appropriate approaches and paradigms while elaborating and implementing response mechanisms This volume is relevant to researchers experts students practitioners and decision makers from different scales and spheres

**Collaboration Across Boundaries for Social-Ecological Systems Science** Stephen G. Perz, 2019-03-30 Collaboration across boundaries is widely recognized as a vital requisite for the advancement of innovative science to address problems such as environmental degradation and global change This book takes collaboration across boundaries seriously by focusing on the many challenges and practices involved in team science when spanning disciplinary organizational national and other divides The authors draw on a shared framework for managing the challenges of collaboration across boundaries as applied to the science of understanding complex social ecological systems Teams working across boundaries on diverse social ecological systems in countries around the world report their challenges and share their practices outcomes and lessons learned From these diverse experiences arise many commonalities and also some important differences These provide the basis for a set of recommendations to any collaborators intending to use science as a tool to better understand social ecological systems and to improve their management and governance

*Principles for Building Resilience* Reinette Biggs, Maja Schlüter, Michael L. Schoon, 2015-04-02 Reflecting the very latest research this book provides an in depth review of the role of resilience in the management of social ecological systems and the ecosystem services they provide Leaders in the field outline seven principles for building resilience in social ecological systems examining how these can be applied to

advance sustainability      **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      Spatial Resilience in Social-Ecological Systems Graeme S.

Cumming, 2011-02-09 Spatial Resilience is a new and exciting area of interdisciplinary research It focuses on the influence of spatial variation including such things as spatial location context connectivity and dispersal on the resilience of complex systems and on the roles that resilience and self organization play in generating spatial variation Prof Cumming provides a readable introduction and a first comprehensive synthesis covering the core concepts and applications of spatial resilience to the study of social ecological systems The book follows a trajectory from concepts through models methods and case study analysis before revisiting the central problems in the further conceptual development of the field In the process the author ranges from the movements of lions in northern Zimbabwe to the urban jungles of Europe and from the collapse of past societies to the social impacts of modern conflict The many case studies and examples discussed in the book show how the concept of spatial resilience can generate valuable insights into the spatial dynamics of social ecological systems and contribute to solving some of the most pressing problems of our time Although it has been written primarily for students this book will provide fascinating reading for interdisciplinary scientists at all career stages as well as for the interested public Graeme Cumming central in the development of resilience thinking and theory has produced a wonderful book on spatial resilience the first ever on this topic The book will become a shining star a classic in the explosion of new ideas and approaches to studying and understanding social ecological systems Carl Folke Stockholm Resilience Centre Sweden

**The Routledge Handbook of Research Methods for Social-Ecological Systems** Reinette Biggs, Alta de Vos, Rika Preiser, Hayley Clements, Kristine Maciejewski, Maja Schlüter, 2021-07-29 The Routledge Handbook of Research Methods for Social Ecological Systems provides a synthetic guide to the range of methods that can be employed in social ecological

systems SES research The book is primarily targeted at graduate students lecturers and researchers working on SES and has been written in a style that is accessible to readers entering the field from a variety of different disciplinary backgrounds Each chapter discusses the types of SES questions to which the particular methods are suited and the potential resources and skills required for their implementation and provides practical examples of the application of the methods In addition the book contains a conceptual and practical introduction to SES research a discussion of key gaps and frontiers in SES research methods and a glossary of key terms in SES research Contributions from 97 different authors situated at SES research hubs in 16 countries around the world including South Africa Sweden Germany and Australia bring a wealth of expertise and experience to this book The first book to provide a guide and introduction specifically focused on methods for studying SES this book will be of great interest to students and scholars of sustainability science environmental management global environmental change studies and environmental governance The book will also be of interest to upper level undergraduates and professionals working at the science policy interface in the environmental arena

**Exploring Resilience in Social-ecological Systems** Brian Harrison Walker, 2006 The capacity of a system an ecosystem or a social ecological system to tolerate disturbance without collapsing into a qualitatively different state controlled by a different set of processes is known as resilience Written by some of the leading international thinkers in the field Exploring Resilience in Social Ecological Systems provides a state of the science account of resilience theory based on comparisons of a set of case studies around the world and gives some fascinating insights into the subject

Social-ecological Systems of Latin America: Complexities and Challenges Luisa E. Delgado, Víctor H. Marín, 2019-10-31 Human societies are influencing nature in such a way that their independent analysis is no longer suitable Fortunately social ecological systems provide a conceptual framework for the interconnected analysis of societies and ecosystems However in the case of Latin America the complexity of social ecological processes undermined a much needed compilation of theoretical concepts methods and case studies Increasing readers understanding of such systems using a postnormal approach the book discusses current concepts and methods with examples of studies from eight countries It is a useful resource for social actors government decision makers and scholars

**Adaptive Management of Social-Ecological Systems** Craig R. Allen, Ahjond S. Garmestani, 2015-04-25 Adaptive management is an approach to managing social ecological systems that fosters learning about the systems being managed and remains at the forefront of environmental management nearly 40 years after its original conception Adaptive management persists because it allows action despite uncertainty and uncertainty is reduced when learning occurs during the management process Often termed learning by doing the allure of this management approach has entrenched the concept widely in agency direction and statutory mandates across the globe This exceptional volume is a collection of essays on the past present and future of adaptive management written by prominent authors with long experience in developing implementing and assessing adaptive management Moving forward the book provides policymakers managers and scientists

a powerful tool for managing for resilience in the face of uncertainty      *Social-Ecological Transformation* Karl Bruckmeier, 2016-06-17 This book advances a social ecological theory to reconnect nature and society through sustainable transformation of interacting social and ecological systems Social ecology develops as an interdisciplinary science by using knowledge from the social sciences especially sociology and economics and from natural scientific ecology Knowledge integration across the boundaries of social and natural sciences is not widespread blocked by the specialisation of theories and their competing forms of explanation and interpretation Chapters in this book describe a new social ecological theory that connects concepts and theories from both sides to create a new interdisciplinary theory Inter and transdisciplinary knowledge synthesis creates possibilities to analyse global environmental problems more systematically by integrating specialized research on environmental problems The author uses social ecological theory to analyse and explain problems and processes of global change in modern society such as climate change and adaptation to it ecosystem change and transformation of the industrial energy regime finally offering pathways of transformation to a future sustainable society

Linking Social and Ecological Systems ,1998      **Complexity and Resilience in the Social and Ecological Sciences** Eoin Flaherty, 2018-08-16 This book introduces a new approach to environmental sociology by integrating complexity informed social science Marxian ecological theory and resilience based human ecology It argues that sociologists have largely ignored developments in ecology which move beyond functionalist approaches to systems analysis and as a result environmental sociology has failed to capitalise not only on the analytical promise of resilience ecology but on complementary developments in complexity theory By tracing the origins and discussing current developments in each of these areas it offers several paths to interdisciplinary dialogue Eoin Flaherty argues that complexity theory and Marxian ecology can enhance our understanding of the social aspect of social ecological systems whilst a resilience approach can sharpen the analytical power of environmental sociology      *Coviability of Social and Ecological Systems: Reconnecting*

*Mankind to the Biosphere in an Era of Global Change* Olivier Barrière, Mohamed Behnassi, Gilbert David, Vincent Douzal, Mireille Fargette, Thérèse Libourel, Maud Loireau, Laurence Pascal, Catherine Prost, Voyner Ravena-Cañete, Frédérique Seyler, Serge Morand, 2019-03-20 This book considers the principle of sustainable development which is currently facing a growing environmental crisis A new mode of thinking and positioning the ecological imperative is the major input of this volume The prism of co viability is not the economics of political agencies that carry the ideology of the dominant conventional economic schools but rather an opening of innovation perspectives through science This volume through its four parts more than 40 chapters and a hundred authors gives birth to a paradigm which crystallizes within a concept that will support in overcoming the ecological emergency deadlock      **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 or a balance of nature reinforcing a rigid legal framework unable to absorb rapid environmental changes and innovations in

sustainability For the past three decades resilience theory which embraces uncertainty and nonlinear dynamics in complex adaptive systems has shown itself to be a robust and invaluable basis for sound environmental management Reforming American law to account for this knowledge is key to transitioning 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     Transformations of Social-Ecological Systems Tetsu Sato,Ilan Chabay,Jennifer Helgeson,2018-12-08 Through this book readers will gain a comprehensive overview of transdisciplinary knowledge co production in local contexts as an issue driven and solution oriented process and will come to understand its relationship to societal transformation processes toward sustainability In a single volume the theory approaches and academic implications of this novel type of knowledge production are addressed together with its societal impacts In the midst of global anthropogenic impacts that affect various environments over the past few decades we have observed autonomous initiatives in local communities around the world to tackle these environmental challenges It is vital that such local actions be scaled up to achieve sustainable societies which requires societal transformation on larger scales Thanks to numerous collaborative actions in local communities transdisciplinary knowledge co production among diverse stakeholders has successfully been mobilized resulting in the development of Integrated Local Environmental Knowledge ILEK knowledge that can inform and support decisions and actions promoting the sustainable transformation of society This book uses comparative case studies in communities around the world to illuminate and clarify processes and factors promoting the co production and utilization of ILEK to facilitate decision making In addition readers will gain deeper insights into the science society interactions that can contribute to finding collaborative solutions to a wide range of critical environmental problems Though the book is ideally suited for researchers and students it also offers a valuable resource for practitioners government agencies and stakeholder agencies

**Adapting Institutions** Emily Boyd,Carl Folke,2011-10-27 Global environmental change is occurring at a rate faster than humans have ever experienced Climate change and the loss of ecosystem services are the two main global environmental crises facing us today As a result there is a need for better understanding of the specific and general resilience of networked ecosystems cities organisations and institutions to cope with change In this book an international team of experts provide cutting edge insights into building the resilience and adaptive governance of complex social ecological systems Through a set of case studies it focuses on the social science dimension of ecosystem management in the context of global change in a move to bridge existing gaps between resilience sustainability and social science Using empirical examples ranging from local to global levels views from a variety of disciplines are integrated to provide an essential resource for scholars policy makers and students seeking innovative approaches to governance     Practices in Social Ecological Research Andrea Rawluk,Ruth Beilin,Helena Bender,Rebecca Ford,2019-11-16 Aimed at those at the forefront of social ecological thinking this book presents a practice oriented process to navigate the complex interdisciplinary challenges of our time The book brings



together insights from the social sciences and beyond to introduce readers to adaptive doing a continuous and iterative process of experiential learning that provides an accessible structure and process for integrating a range of knowledge and practices As part of the adaptive doing learning cycle the authors argue for a common platform symbolically called the agora where multiple ways of understanding can be discussed In this space participants can work from practice and narratives toward meaning knowledge formation and practice change The book demonstrates three reframing tools for social ecological practice that provide readers with multiple ways of holistically entering the social ecological domain and expanding their perspectives with a view to changing practice Adaptive doing is presented as a catalyst for a new generation of social ecological research in which participants honour their disciplinary foundations while being ready to collaborate within each new system and each new engagement being able to act now for social ecological recognition and change

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