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ecologists. With five clear and compelling case studies drawn from regions as diverse as Florida, Sweden, and Australia, this book shows how all highly adaptive systems--from ecologies to economies--go through regular cycles of growth, reorganization, and renewal and how our failures to understand the ...

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"Resilience thinking" offers a different way of understanding the

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"Resilience Thinking is an essential guidebook to a powerful new way of understanding our world—and of living resiliently within it—developed in recent decades by an international team of ecologists. With five clear and compelling case studies drawn from regions as diverse as Florida, Sweden, and Australia, this book

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A resilience thinking approach investigates how these interacting  
systems of people and nature can best be managed in the face of

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disturbances, surprises and uncertainty. We define resilience as the capacity of a system, be it an individual, a forest, a city or an economy, to deal with change and continue to develop.

Applying resilience thinking - Stockholm Resilience Centre  
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On a clear morning in October 2019, Benjamin Z. Houlton stood at the edge of a corn field in California ' s Central Valley. On a

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Increasingly, cracks are appearing in the capacity of communities, ecosystems, and landscapes to provide the goods and services that sustain our planet's well-being. The response from most quarters has been for "more of the same" that created the situation in the first place: more control, more intensification, and greater efficiency. "Resilience thinking" offers a different way of understanding the world and a new approach to managing resources. It embraces human and natural systems as complex entities continually adapting through cycles of change, and seeks to

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understand the qualities of a system that must be maintained or enhanced in order to achieve sustainability. It explains why greater efficiency by itself cannot solve resource problems and offers a constructive alternative that opens up options rather than closing them down. In Resilience Thinking, scientist Brian Walker and science writer David Salt present an accessible introduction to the emerging paradigm of resilience. The book arose out of appeals from colleagues in science and industry for a plainly written account of what resilience is all about and how a resilience approach differs from current practices. Rather than complicated theory, the book offers a conceptual overview along with five case studies of resilience thinking in the real world. It is an engaging and important work for anyone interested in managing risk in a complex world.

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sustainability. In Resilience Thinking, scientist Brian Walker and science writer David Salt present an accessible introduction to this emerging paradigm.

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.

In 2006, Resilience Thinking addressed an essential question: As the natural systems that sustain us are subjected to shock after shock, how much can they take and still deliver the services we need from

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them? This idea caught the attention of both the scientific community and the general public. In *Resilience Practice*, authors Brian Walker and David Salt take the notion of resilience one step further, applying resilience thinking to real-world situations and exploring how systems can be managed to promote and sustain resilience. The book begins with an overview and introduction to resilience thinking and then takes the reader through the process of describing systems, assessing their resilience, and intervening as appropriate. Following each chapter is a case study of a different type of social-ecological system and how resilience makes a difference to that system in practice. The final chapters explore resilience in other arenas, including on a global scale. *Resilience Practice* will help people with an interest in the “ coping capacity ” of systems—from farms and catchments to regions and nations—to

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better understand how resilience thinking can be put into practice. It offers an easy-to-read but scientifically robust guide through the real-world application of the concept of resilience and is a must read for anyone concerned with the management of systems at any scale.

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

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theory and its legal applications to climate change, biodiversity, national parks, and water law.

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As the Gulf of Mexico recovers from the Deepwater Horizon oil spill, natural resource managers face the challenge of understanding

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the impacts of the spill and setting priorities for restoration work.

The full value of losses resulting from the spill cannot be captured, however, without consideration of changes in ecosystem services--the benefits delivered to society through natural processes.

An Ecosystem Services Approach to Assessing the Impacts of the Deepwater Horizon Oil Spill in the Gulf of Mexico discusses the benefits and challenges associated with using an ecosystem services approach to damage assessment, describing potential impacts of response technologies, exploring the role of resilience, and offering suggestions for areas of future research. This report illustrates how this approach might be applied to coastal wetlands, fisheries, marine mammals, and the deep sea -- each of which provide key ecosystem services in the Gulf -- and identifies substantial differences among these case studies. The report also discusses the suite of technologies

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used in the spill response, including burning, skimming, and chemical dispersants, and their possible long-term impacts on ecosystem services.

Turning challenge into opportunity--a survey of successful sustainable ideas and practices from around the world.

Creating institutions to meet the challenge of sustainability is arguably the most important task confronting society; it is also dauntingly complex. Ecological, economic, and social elements all play a role, but despite ongoing efforts, researchers have yet to succeed in integrating the various disciplines in a way that gives adequate representation to the insights of each. Panarchy, a term devised to describe evolving hierarchical systems with multiple



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interrelated elements, offers an important new framework for understanding and resolving this dilemma. Panarchy is the structure in which systems, including those of nature (e.g., forests) and of humans (e.g., capitalism), as well as combined human-natural systems (e.g., institutions that govern natural resource use such as the Forest Service), are interlinked in continual adaptive cycles of growth, accumulation, restructuring, and renewal. These transformational cycles take place at scales ranging from a drop of water to the biosphere, over periods from days to geologic epochs. By understanding these cycles and their scales, researchers can identify the points at which a system is capable of accepting positive change, and can use those leverage points to foster resilience and sustainability within the system. This volume brings together leading thinkers on the subject -- including Fikret Berkes, Buz Brock, Steve

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Carpenter, Carl Folke, Lance Gunderson, C.S. Holling, Don Ludwig, Karl-Goran Maler, Charles Perrings, Marten Scheffer, Brian Walker, and Frances Westley -- to develop and examine the concept of panarchy and to consider how it can be applied to human, natural, and human-natural systems. Throughout, contributors seek to identify adaptive approaches to management that recognize uncertainty and encourage innovation while fostering resilience. The book is a fundamental new development in a widely acclaimed line of inquiry. It represents the first step in integrating disciplinary knowledge for the adaptive management of human-natural systems across widely divergent scales, and offers an important base of knowledge from which institutions for adaptive management can be developed. It will be an invaluable source of ideas and understanding for students, researchers, and professionals

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involved with ecology, conservation biology, ecological economics,  
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