

Principles Of Ecosystem Stewardship

Grassroots StewardshipManaging Natural Resources for Development in AfricaAdaptation to Climate Change and Variability in Rural West AfricaGrassroots StewardshipSocial-Ecological Resilience and LawResilience ThinkingAdaptive Capacity and Environmental GovernanceHealing EarthGreen GovernancePrinciples of Terrestrial Ecosystem EcologyPathways to Urban SustainabilityEcological Restoration, Second EditionA Safe and Sustainable WorldEcological StewardshipBeyond NaturalnessPrinciples of Sustainable Soil Management in AgroecosystemsEcological stewardshipPrinciples for Building ResiliencePrinciples of Terrestrial Ecosystem EcologyPrinciples of Environmental EconomicsProject Planning and Managemfor Ecological RestorationEarth StewardshipPromoting Stewardship of Forests in the Humid Forest Zone of Anglophone West and Central AfricaPractical Organic GardeningEcosystem Functions and ManagementTrojan-Horse AidSustainable Golf CoursesThe Politics of Ecosystem ManagementAlternative Approaches to DevelopmentGlobal Biodiversity in a Changing EnvironmentMaintaining Biodiversity in Forest EcosystemsCivic EcologyPlanting in a Post-Wild WorldEarthkeeping in the NinetiesSoundscape EcologyAtlas of Ecosystem ServicesNovel EcosystemsThe Science and Practice of Landscape StewardshipEcosystem ManagementPrinciples of Ecosystem Stewardship

Grassroots Stewardship

Ecological restoration is a rapidly growing discipline that encompasses a wide range of activities and brings together practitioners and theoreticians from a variety of backgrounds and perspectives, ranging from volunteer backyard restorationists to highly trained academic scientists and professional consultants. This book offers a comprehensive and coherent account of the field for everyone who initiates, finances, designs, administers, issues government permits for, manages, and implements ecological restoration projects, and all those who serve in supportive roles. Originally published in 2007, this revised and reorganized edition brings the book up to date with new developments and current trends in the field. In a lively, personal fashion, the authors discuss scientific and practical aspects of the field as well as the human needs and values that motivate practitioners. The book identifies fundamental concepts upon which restoration is based considers the principles of restoration practice explores the diverse values that are fulfilled with the restoration of ecosystems reviews the structure of restoration practice, including the various contexts for restoration work, the professional development of its practitioners, and the relationships of restoration with allied fields and activities The book also includes case studies and Virtual Field Trips around the world that illustrate points made in the book with on-the-ground information from those who were intimately involved with the projects described. Throughout, ecological

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restoration is conceived as a holistic endeavor, one that addresses issues of ecological degradation, biodiversity loss, personal engagement, and sustainability science simultaneously, and draws upon cultural resources and local skills and knowledge in restoration work.

Managing Natural Resources for Development in Africa

The world is undergoing unprecedented changes in many of the factors that determine its fundamental properties and their influence on society. These changes include climate; the chemical composition of the atmosphere; the demands of a growing human population for food and fiber; and the mobility of organisms, industrial products, cultural perspectives, and information flows. The magnitude and widespread nature of these changes pose serious challenges in managing the ecosystem services on which society depends. Moreover, many of these changes are strongly influenced by human activities, so future patterns of change will continue to be influenced by society's choices and governance. The purpose of this book is to provide a new framework for natural resource management—a framework based on stewardship of ecosystems for human well-being in a world dominated by uncertainty and change. The goal of ecosystem stewardship is to respond to and shape change in social-ecological systems in order to sustain the supply and opportunities for use of ecosystem services by society. The book links recent advances in the theory of resilience, sustainability, and

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vulnerability with practical issues of ecosystem management and governance. The book is aimed at advanced undergraduates and beginning graduate students of natural resource management as well as professional managers, community leaders, and policy makers with backgrounds in a wide array of disciplines, including ecology, policy studies, economics, sociology, and anthropology.

Adaptation to Climate Change and Variability in Rural West Africa

Grassroots Stewardship

In a compelling first-hand account of development assistance gone awry, Susan Walsh recounts how national, international, and multilateral organizations failed the Jalq'a people in the Bolivian Andes during the early millennium. Intent on assisting potato farmers, development organizations pushed for changes that ultimately served their own interests, paradoxically undermining local resilience and pushing farmers off their lands. Trojan-Horse Aid challenges the idea of Western capacity-building, particularly the notion that introduced technologies related to food production are essential ingredients for sustainable livelihoods among farmers. Walsh argues that the well-intentioned organizations working in Jalq'a communities paid insufficient attention to longstanding knowledge that has supported human survival in regions where the natural world has the upper hand. Walsh goes beyond

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a critical review of misguided aid to offer reflections on the relationship between indigenous knowledge and resilience theory, the hopeful future of development assistance, and the contradictions in her own hybrid role as researcher and development-practitioner. In light of growing global concern over the worsening food crisis and interconnected climate extremes, Trojan-Horse Aid offers an important critique of development practices that undermine peasant strategies as well as suggestions for more effective approaches for the future.

Social-Ecological Resilience and Law

"Sustainable Golf Courses is the most authoritative guidebook on environmental management of planned and existing golf courses. Featuring a practical integration of scientifically based siting, design, and management practices founded on accepted principles of sustainability, this convenient resource helps readers meet the economic, ecological, and social expectations facing the game of golf and the entire golf course industry." "Complete with detailed case studies and environmental research from the USGA, Sustainable Golf Courses is a valuable tool for maximizing open-space opportunities on golf courses."

Resilience Thinking

Improving the dynamic relationship between nature and human well-being is a pressing issue of our time. Landscapes embody this tight interconnectedness

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and serve as unique sustainability learning hubs, showcased by the global rise of place-based and holistic landscape stewardship initiatives. Incorporating these exciting developments, this book explores the principles of landscape stewardship and their function in fields such as agriculture, ecological restoration and urban green infrastructure. It provides insights into the challenges and the potential of landscape stewardship and identifies future paths for the science and practice of landscape-related sustainability efforts. Aligning analytical perspectives with practical applications, it brings together contributions from leading scholars and innovative models of landscape stewardship from all around the world, making it an essential resource for anyone interested in developing sustainable human-nature relationships.

Adaptive Capacity and Environmental Governance

Stories of environmental stewardship in communities from New Orleans to Soweto accompany an interdisciplinary framework for understanding civic ecology as a global phenomenon.

Healing Earth

A true pioneer and respected elder in ecological recovery and sustainability shares effective solutions he has designed and implemented. A stand-out from the sea of despairing messages about climate change, well-known sustainability elder John Todd,

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who has taught, mentored, and inspired such well-known names in the field as Janine Benyus, Bill McKibben, and Paul Hawken, chronicles the different ecological interventions he has created over the course of his career. Each chapter offers a workable engineering solution to an existing environmental problem: healing the aftermath of mountain-top removal and valley-fill coal mining in Appalachia, using windmills and injections of bacteria to restore the health of a polluted New England pond, working with community members in a South African village to protect an important river. A mix of both success stories and concrete suggestions for solutions to tackle as yet unresolved issues, Todd's narrative provides an important addition to the conversation about specific ways we can address the planetary crisis. Eighty-five color photos and images illustrate Todd's concepts. This is a refreshingly hopeful, proactive book and also a personal story that covers a known practitioner's groundbreaking career.

Green Governance

This is the first book to provide vital information on key local ecosystems, their functions, state of health, and their role in development in an Asian context, particularly on the Indian subcontinent. It addresses six major ecosystems on the Indian subcontinent – mountain, rural, desert, forest, urban, and freshwater – and discusses their functions, how they support livelihoods and the economy, the impacts on ecosystem services, and management issues. Asia is home to nearly one third of the global population.

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With massive industrialization occurring at an increasing pace to support the lifestyles of a growing population, impacts on natural ecosystems are inevitable in this region. The book also explores the concepts, theory and practice regarding these key ecosystems by linking them with the livelihoods of a large population base and subsequently illustrating their importance for sustainable development in the region. Further, by suggesting policies and ways in which these systems can be maintained and enhanced, it facilitates better management of natural resources within the ecological constraints to achieve socio-economic objectives and move towards a green economy for sustainable and equitable development in the region.

Principles of Terrestrial Ecosystem Ecology

A guide to organic gardening offers tips on soil selection, using natural remedies for pests and diseases, and repurposing vintage containers.

Pathways to Urban Sustainability

Soundscape Ecology represents a new branch of ecology and it is the result of the integration of different disciplines like Landscape ecology, Bioacoustics, Acoustic ecology, Biosemiotics, etc. The soundscape that is the object of this discipline, is defined as the acoustic context resulting from natural and human originated sounds and it is considered a relevant environmental proxy for animal and human

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life. With Soundscape Ecology Almo Farina means to offer a new cultural tool to investigate a partially explored component of the environmental complexity. For this he intends to set the principles of this new discipline, to delineate the epistemic domain in which to develop new ideas and theories and to describe the necessary integration with all the other ecological/environmental disciplines. The book is organized in ten chapters. The first two chapters delineate principles and theory of soundscape ecology. Chapters three and four describe the bioacoustic and communication theories. Chapter five is devoted to the human dimension of soundscape. Chapters six to eight regard the major sonic patterns like noise, choruses and vibrations. Chapter nine is devoted to the methods in soundscape ecology and finally chapter ten describes the application of the soundscape analysis.

Ecological Restoration, Second Edition

“As practical as it is poetic. . . . an optimistic call to action.” —Chicago Tribune Over time, with industrialization and urban sprawl, we have driven nature out of our neighborhoods and cities. But we can invite it back by designing landscapes that look and function more like they do in the wild: robust, diverse, and visually harmonious. Planting in a Post-Wild World by Thomas Rainer and Claudia West is an inspiring call to action dedicated to the idea of a new nature—a hybrid of both the wild and the cultivated—that can flourish in our cities and suburbs. This is both a post-wild manifesto and practical guide

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that describes how to incorporate and layer plants into plant communities to create an environment that is reflective of natural systems and thrives within our built world.

A Safe and Sustainable World

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 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

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engaging and important work for anyone interested in managing risk in a complex world.

Ecological Stewardship

Project Planning and Management for Ecological Restoration addresses a problem that is the reason many current restoration projects are not as effective or successful as they could be: a lack of understanding of the principles of sound planning and management. John Rieger, John Stanley, and Ray Traynor, who collectively have decades of experience implementing successful restoration projects, provide a straightforward framework for developing and executing an ecological restoration project in order to maximize its potential for success. The authors focus on process, planning, design, implementation, and management rather than science. They describe a simple project management plan, identify the design approaches and the commitments that decisions require, and explain how design theory is translated to on-the-ground project design. The book includes numerous illustrations, as well as a series of checklists and tables to help restorationists recognize and then correct problems that may arise.

Beyond Naturalness

Land conversion, climate change and species invasions are contributing to the widespread emergence of novel ecosystems, which demand a shift in how we think about traditional approaches to conservation, restoration and environmental

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management. They are novel because they exist without historical precedents and are self-sustaining. Traditional approaches emphasizing native species and historical continuity are challenged by novel ecosystems that deliver critical ecosystem services or are simply immune to practical restorative efforts. Some fear that, by raising the issue of novel ecosystems, we are simply paving the way for a more laissez-faire attitude to conservation and restoration. Regardless of the range of views and perceptions about novel ecosystems, their existence is becoming ever more obvious and prevalent in today's rapidly changing world. In this first comprehensive volume to look at the ecological, social, cultural, ethical and policy dimensions of novel ecosystems, the authors argue these altered systems are overdue for careful analysis and that we need to figure out how to intervene in them responsibly. This book brings together researchers from a range of disciplines together with practitioners and policy makers to explore the questions surrounding novel ecosystems. It includes chapters on key concepts and methodologies for deciding when and how to intervene in systems, as well as a rich collection of case studies and perspective pieces. It will be a valuable resource for researchers, managers and policy makers interested in the question of how humanity manages and restores ecosystems in a rapidly changing world. A companion website with additional resources is available at <http://www.wiley.com/go/hobbs/ecosystems>

Principles of Sustainable Soil Management in Agroecosystems

In a society more concerned with how to cope with existential dread than how to make actionable changes to save the planet, a surprisingly large number of Americans identify as environmentalists. What can individual people do to lessen human impacts on the planet? This is not an easy question. Most research is focused on large-scale changes that go beyond anything an individual can accomplish, and people are left feeling defeated rather than inspired to make changes in their everyday lives. Change starts at home, and F Stuart Chapin, III has assembled a book for people who want to learn more about global changes and, more importantly, what they can do about them, starting today. *Grassroots Stewardship* approaches our current situation with an educated sense of hope and positivity. This book emphasizes actions by individuals, rather than governmental or corporate institutions, to trigger transformational change. Readers will learn what they can do to most significantly transform their communities and the planet with more sustainable pathways.

Ecological stewardship

The complex and dynamic interlinks between natural resource management (NRM) and development have long been recognized by national and international research and development organizations and have generated voluminous literature. However, much of

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what is available in the form of university course books, practical learning manuals and reference materials in NRM is based on experiences from outside Africa. *Managing Natural Resources for Development in Africa: A Resource Book* provides an understanding of the various levels at which NRM issues occur and are being addressed scientifically, economically, socially and politically. The book's nine chapters present state-of-the-art perspectives within a holistic African context. The book systematically navigates the tricky landscape of integrated NRM, with special reference to Eastern and Southern Africa, against the backdrop of prevailing local, national, regional and global social, economic and environmental challenges. The authors' wide experience, the rich references made to emerging challenges and opportunities, and the presentation of different tools, principles, approaches, case studies and processes make the book a rich and valuable one-stop resource for postgraduate students, researchers, policymakers and NRM practitioners. The book is designed to help the reader grasp in-depth NRM perspectives and presents innovative guidance for research design and problem solving, including review questions, learning activities and recommended further reading. The book was developed through a writeshop process by a multi-disciplinary team of lecturers from the University of Nairobi, Egerton University, Kenyatta University, the University of Zimbabwe, the University of Malawi, Makerere University and the University of Dar es Salam. In addition, selected NRM experts from regional and international research organizations including the World Agroforestry Center (ICRAF), the Africa Forest

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Forum, RUFORUM, IIRR and the International Development Research Centre (IDRC) participated in the writeshop and contributed material to the book.

Principles for Building Resilience

The report is organised into nine chapters. The first chapter gives an account of the forestry situation in West and Central Africa, with emphasis on vegetation distribution and factors affecting forest management. Chapters 2 and 3 highlight past and present silvicultural and forest management practices and also consider management control systems. The relevance of biodiversity and the role of non-timber forest products are explored in Chapter 4. Inter-generational issues, socio-economic factors influencing sustainable forest management, and the relevance of policies and legislation are addressed in Chapters 5, 6 and 7. Chapter 8 outlines strategies and incentives which might be adopted to promote sustainable forest management. The report concludes with suggestions for research which could be undertaken to fill gaps in knowledge which became apparent in the course of this project.

Principles of Terrestrial Ecosystem Ecology

Discusses the ways in which we can continue to benefit from forests, while conserving their biodiversity.

Principles of Environmental Economics

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With the use of high-level soil management technology, Africa could feed several billion people, yet food production has generally stagnated since the 1960s. No matter how powerful the seed technology, the seedling emerging from it can flourish only in a healthy soil. Accordingly, crop yields in Africa, South Asia, and the Caribbean could be double

Project Planning and Management for Ecological Restoration

Resource management in the United States is undergoing a fundamental change. Traditional sustained-yield approaches that focus on commodity production and human resource use are steadily giving way to ecological approaches, often referred to as ecosystem management, that have long-term ecological sustainability as their primary goal. To achieve that goal, ecosystem management emphasizes socially defined goals and objectives, integrated and holistic science, collaborative decision making, and adaptable institutions. Political considerations are an essential component of ecosystem management, yet its socio-political context has been largely ignored by those studying and writing on the subject. *The Politics of Ecosystem Management* is the first book to focus entirely on the political challenges facing ecosystem management as it moves from theory to practice. The authors examine: the history of natural resource management in the United States the theory behind ecosystem management potential inconsistencies and contradictions in the themes of ecosystem

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management political philosophies that undergird traditional resource management alternative political principles inherent in ecosystem management opportunities and barriers for achieving collaborative ecosystem management

The Politics of Ecosystem Management considers the sweeping and profound changes that will be required of the American governance system -- its political philosophy, institutions, notions of citizenship, and politics, as well its resource management practices -- if the shift to ecosystem management is to be realized. It is a lucid and accessible volume that represents a vital contribution to the literature for students, researchers, and professionals involved with any aspect of developing and implementing ecosystem-based approaches to resource management.

Earth Stewardship

In a society more concerned with how to cope with existential dread than how to make actionable changes to save the planet, a surprisingly large number of Americans identify as environmentalists. What can individual people do to lessen human impacts on the planet? This is not an easy question. Most research is focused on large-scale changes that go beyond anything an individual can accomplish, and people are left feeling defeated rather than inspired to make changes in their everyday lives. Change starts at home, and F Stuart Chapin, III has assembled a book for people who want to learn more about global changes and, more importantly, what they can do about them, starting today. Grassroots

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Stewardship approaches our current situation with an educated sense of hope and positivity. This book emphasizes actions by individuals, rather than governmental or corporate institutions, to trigger transformational change. Readers will learn what they can do to most significantly transform their communities and the planet with more sustainable pathways.

Promoting Stewardship of Forests in the Humid Forest Zone of Anglophone West and Central Africa

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.

Practical Organic Gardening

Features review questions at the end of each chapter;
Includes suggestions for recommended reading;
Provides a glossary of ecological terms; Has a wide

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audience as a textbook for advanced undergraduate students, graduate students and as a reference for practicing scientists from a wide array of disciplines

Ecosystem Functions and Management

Cities have experienced an unprecedented rate of growth in the last decade. More than half the world's population lives in urban areas, with the U.S. percentage at 80 percent. Cities have captured more than 80 percent of the globe's economic activity and offered social mobility and economic prosperity to millions by clustering creative, innovative, and educated individuals and organizations. Clustering populations, however, can compound both positive and negative conditions, with many modern urban areas experiencing growing inequality, debility, and environmental degradation. The spread and continued growth of urban areas presents a number of concerns for a sustainable future, particularly if cities cannot adequately address the rise of poverty, hunger, resource consumption, and biodiversity loss in their borders. Intended as a comparative illustration of the types of urban sustainability pathways and subsequent lessons learned existing in urban areas, this study examines specific examples that cut across geographies and scales and that feature a range of urban sustainability challenges and opportunities for collaborative learning across metropolitan regions. It focuses on nine cities across the United States and Canada (Los Angeles, CA, New York City, NY, Philadelphia, PA, Pittsburgh, PA, Grand Rapids, MI, Flint, MI, Cedar Rapids, IA, Chattanooga,

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TN, and Vancouver, Canada), chosen to represent a variety of metropolitan regions, with consideration given to city size, proximity to coastal and other waterways, susceptibility to hazards, primary industry, and several other factors.

Trojan-Horse Aid

This book advances Earth Stewardship toward a planetary scale, presenting a range of ecological worldviews, practices, and institutions in different parts of the world and to use them as the basis for considering what we could learn from one another, and what we could do together. Today, inter-hemispheric, intercultural, and transdisciplinary collaborations for Earth Stewardship are an imperative. Chapters document pathways that are being forged by socio-ecological research networks, religious alliances, policy actions, environmental citizenship and participation, and new forms of conservation, based on both traditional and contemporary ecological knowledge and values. “The Earth Stewardship Initiative of the Ecological Society of America fosters practices to provide a stable basis for civilization in the future. Biocultural ethic emphasizes that we are co-inhabitants in the natural world; no matter how complex our inventions may become” (Peter Raven).

Sustainable Golf Courses

The Politics of Ecosystem Management

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Can economic growth be environmentally sustainable? This crucial question goes right to the heart of environmental economics and is a matter of increasing concern globally. The first edition of this popular title was the first introductory textbook in environmental economics that truly attempted to integrate economics with not only the environment but also ecology. This new version builds and improves upon the popular formula with new material, new examples, new pedagogical features and new questions for discussion. With international case-studies and examples, this book will prove an excellent choice for introducing both students and other academics to the world of environmental economics.

Alternative Approaches to Development

This book presents conceptual and empirical discussions of adaptation to climate change/variability in West Africa. Highlighting different countries' experiences in adaptation by different socio-economic groups and efforts at building their adaptive capacity, it offers readers a holistic understanding of adaptation on the basis of contextual and generic sources of adaptive capacity. Focusing on adaptation to climate change/variability is critical because the developmental challenges West Africa faces are increasingly intertwined with its climate history. Today, climate change is a major developmental issue for agrarian rural communities with high percentages of the population earning a living directly or indirectly from the natural environment. This makes them

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highly vulnerable to climate-driven ecological change, in addition to threats in the broader political economic context. It is imperative that rural people adapt to climate change, but their ability to successfully do so may be limited by competing risks and vulnerabilities. As such, elucidating those vulnerabilities and sources of strength with regard to the adaptive capacities needed to support successful adaptation and avoid maladaptation is critical for future policy formulation. Though the empirical discussion is geographically based on West Africa, its applicability in terms of the processes, structures, needs, strategies, and recommendations for policy transcends the region and provides useful lessons for understanding adaptation broadly in the developing world.

Global Biodiversity in a Changing Environment

The vast majority of the world's scientists agree: we have reached a point in history where we are in grave danger of destroying Earth's life-sustaining capacity. But our attempts to protect natural ecosystems are increasingly ineffective because our very conception of the problem is limited; we treat 'the environment' as its own separate realm, taking for granted prevailing but outmoded conceptions of economics, national sovereignty and international law. Green Governance is a direct response to the mounting calls for a paradigm shift in the way humans relate to the natural environment. It opens the door to a new set of solutions by proposing a compelling new synthesis of environmental protection based on broader notions of

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economics and human rights and on commons-based governance. Going beyond speculative abstractions, the book proposes a new architecture of environmental law and public policy that is as practical as it is theoretically sound.

Maintaining Biodiversity in Forest Ecosystems

Rapid environmental change calls for individuals and societies with an ability to transform our interactions with each other and the ecosystems upon which we depend. Adaptive capacity - the ability of a social-ecological system (or the components of that system) to be robust to disturbances and capable of responding to changes - is increasingly recognized as a critical attribute of multi-level environmental governance. This unique volume offers the first interdisciplinary and integrative perspective on an emerging area of applied scholarship, with contributions from internationally recognized researchers and practitioners. It demonstrates how adaptive capacity makes environmental governance possible in complex social-ecological systems. Cutting-edge theoretical developments are explored and empirical case studies offered from a wide range of geographic settings and natural resource contexts, such as water, climate, fisheries and forestry. • Of interest to researchers, policymakers and resource managers seeking to navigate and understand social-ecological change in diverse geographic settings and resource contexts

Civic Ecology

The scientific community has voiced two general concerns about the future of the earth. Firstly, climatologists and oceanographers have focused on the changes in our physical environment, ie climate, oceans, and air. And secondly, environmental biologists have addressed issues of conservation and the extinction of species. There is increasing evidence that these two broad concerns are intertwined and mutually dependent. Past changes in biodiversity have both responded to and caused changes in the earths environment. In its discussions of ten key terrestrial biomes and freshwater ecosystems, this volume uses our broad understanding of global environmental change to present the first comprehensive scenarios of biodiversity for the twenty-first century. Combining physical earth science with conservation biology, the book provides a starting-point for regional assessments on all scales. The book will be of interest to those concerned with guiding research on the changing environment of the earth and with planning future policy, especially in accordance with the Global Biodiversity Convention.

Planting in a Post-Wild World

In the late sixties, as the world was waking to a need for Earth Day, a pioneering group founded a small non-profit research and education organization they called the New Alchemy Institute. Their aim was to explore the ways a safer and more sustainable world could be created. In the ensuing years, along with scientists,

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agriculturists, and a host of enthusiastic amateurs and friends, they set out to discover new ways that basic human needs--in the form of food, shelter, and energy--could be met. *A Safe and Sustainable World* is the story of that journey, as it was and as it continues to be. The dynamics and the resilience of the living world were the Institute's model and the inspiration for their research. Central to their efforts then and now is, along with science, a spiritual quest for a more harmonious human role in our planet's future. The results of this work have now entered mainstream science through the emerging discipline of ecological design. Nancy Jack Todd not only relates a fascinating journey from lofty ideals through the hard realities encountered in learning how to actually grow food, harness the energy of the sun and wind, and design green architecture. She also introduces us to some of the heroes and mentors who played a vital role in those efforts as well, from Buckminster Fuller to Margaret Mead. The early work of the Institute culminated in the design and building of two bioshelters--large greenhouse-like independent structures called Arks, that provided the setting for much of the research to follow. Successfully proving through the Institute's designs and investigations that basic land sustainability is achievable, John Todd and the author founded a second non-profit research group, Ocean Arks International. Here they applied the New Alchemy's natural systems thinking to restoring polluted waters with the invention and implementation of biologically based living technologies called Ecomachines and Pond and Lake Restorers. *A Safe and Sustainable World* demonstrates what has and can be done--it also looks

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to what must be done to integrate human ingenuity and the four billion or so years of evolutionary intelligence of the natural world into healthy, decentralized, locally dreams hard won--and hope.

Earthkeeping in the Nineties

Soundscape Ecology

This book aims to identify, present and discuss key driving forces and pressures on ecosystem services. Ecosystem services are the contributions that ecosystems provide to human well-being. The scope of this atlas is on identifying solutions and lessons to be applied across science, policy and practice. The atlas will address different components of ecosystem services, assess risks and vulnerabilities, and outline governance and management opportunities. The atlas will therefore attract a wide audience, both from policy and practice and from different scientific disciplines. The emphasis will be on ecosystems in Europe, as the available data on service provision is best developed for this region and recognizes the strengths of the contributing authors. Ecosystems of regions outside Europe will be covered where possible.

Atlas of Ecosystem Services

Provides essays, exercises, summaries, learning tools, and definitions focusing on the issues surrounding ecosystem management.

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Novel Ecosystems

Features review questions at the end of each chapter;
Includes suggestions for recommended reading;
Provides a glossary of ecological terms; Has a wide audience as a textbook for advanced undergraduate students, graduate students and as a reference for practicing scientists from a wide array of disciplines

The Science and Practice of Landscape Stewardship

The central concept guiding the management of parks and wilderness over the past century has been “naturalness”—to a large extent the explicit purpose in establishing these special areas was to keep them in their “natural” state. But what does that mean, particularly as the effects of stressors such as habitat fragmentation, altered disturbance regimes, pollution, invasive species, and climate change become both more pronounced and more pervasive? Beyond Naturalness brings together leading scientists and policymakers to explore the concept of naturalness, its varied meanings, and the extent to which it provides adequate guidance regarding where, when, and how managers should intervene in ecosystem processes to protect park and wilderness values. The main conclusion is the idea that naturalness will continue to provide an important touchstone for protected area conservation, but that more specific goals and objectives are needed to guide stewardship. The issues considered in Beyond Naturalness are central not just to conservation of

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parks, but to many areas of ecological thinking—including the fields of conservation biology and ecological restoration—and represent the cutting edge of discussions of both values and practice in the twenty-first century. This book offers excellent writing and focus, along with remarkable clarity of thought on some of the difficult questions being raised in light of new and changing stressors such as global environmental climate change.

Ecosystem Management

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.

Principles of Ecosystem Stewardship

Ever since its original publication over a decade ago, *Earthkeeping* has presented a thought-provoking, biblically based call for responsible stewardship. In view of the continuing environmental crisis worldwide and in light of increased ecological awareness in recent years, the book's message regarding "earthkeeping" is now more pertinent than ever. This greatly revised and augmented edition of *Earthkeeping* updates the original edition while retaining the same breadth of perspective, reflecting the combined insights of Christian scholars in biology,

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physics, economics, literature, and philosophy. The book begins by laying out, with scientific precision, the state of the planet. Several chapters then carefully examine various historical and contemporary views of creation. Next the authors survey biblical and theological teaching relative to humanity's use of creation. The book concludes by offering helpful, practical guidelines for an earthkeeping ethic. Besides providing an updated "state of the planet" analysis, this revised edition of Earthkeeping deals with recent cultural and religious developments, incorporating new material, for example, on the "Deep Ecology" and "new age" movements, the Gaia hypothesis, and ecofeminism. This edition also takes into account the recent wealth of Christian thinking about the earth, including the recovery of important but neglected voices from the Christian tradition, such as Hildegard of Bingen and Celtic spirituality. At the end of the book, an expanded and updated annotated bibliography, organized according to subject area, and new indexes (of names and subjects and of Scripture references) enhance the value of Earthkeeping as a significant resource fostering better human stewardship of God's creation.

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