
Conventional engineering solutions to problems of flooding and erosion are extremely destructive to natural environments. Restoring Streams in Cities presents viable alternatives to traditional practices that can be used both to repair existing ecological damage and to prevent such damage from happening. Ann L. Riley describes an interdisciplinary approach to stream management that does not attempt to "control" streams, but rather considers the stream as a feature in the urban environment. She presents a logical sequence of land-use planning, site design, and watershed restoration measures along with stream channel modifications and floodproofing strategies that can be used in place of destructive and expensive public works projects. She features examples of effective and environmentally sensitive bank stabilization and flood damage reduction projects, with information on both the planning processes and end results. Chapters provide: background needed to make intelligent choices, ask necessary questions, and hire the right professional help; history of urban stream management and restoration information on federal programs, technical assistance and funding opportunities; in-depth guidance on implementing projects: collecting watershed and stream channel data, installing revegetation projects, protecting buildings from overbank stream flows; profusely illustrated and including more than 100 photos, Restoring Streams in Cities includes detailed information on all relevant components of stream restoration projects, from historical background to hands-on techniques. It represents the first comprehensive volume aimed at helping those involved with stream management in their community, and describes a wealth of options for the treatment of urban streams that will be useful to concerned citizens and professional engineers alike.

Restoring Neighborhood Streams - Ann L. Riley 2016-07-12

Thirty years ago, the best thinking on urban stream management prescribed cement as the solution to flooding and other problems of people and flowing water forced into close proximity. Urban streams were perceived as little more than flood control devices designed to hurry water through cities and neighborhoods with scant thought for aesthetics or ecological considerations. Stream restoration pioneers like hydrologist Ann Riley thought differently. She and other like-minded field scientists imagined that by restoring ecological function, and with careful management, streams and rivers could be a net benefit to cities, instead of a net liability. In the intervening decades, she has spearheaded numerous urban stream restoration projects.
and put to rest the long-held misconception that degraded urban streams are beyond help. What has been missing, however, is detailed guidance for restoration practitioners wanting to undertake similar urban stream restoration projects that worked with, rather than against, nature. This book presents the author’s thirty years of practical experience managing long-term stream and river restoration projects in heavily degraded urban environments. Riley provides a level of detail only a hands-on design practitioner would know, including insights on project design, institutional and social context of successful projects, and how to avoid costly and time-consuming mistakes. Early chapters clarify terminology and review strategies and techniques from historical schools of restoration thinking. But the heart of the book comprises the chapters containing nine case studies of long-term stream restoration projects in northern California. Although the stories are local, the principles, methods, and tools are universal, and can be applied in almost any city in the world.

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The Sustainable Urban Development Reader-Stephen M. Wheeler 2004 Bringing together classic readings from a wide variety of sources, this key book investigates how our cities and towns can become more sustainable. Thirty-eight selections span issues such as land use planning, urban design, transportation, ecological restoration, economic development, resource use and equity planning. Section introductions outline the major themes, whilst the editors' introductions to the individual writings explain their interest and significance to wider debates. Additional sections present twenty-four case studies of real-world sustainable urban planning examples, sustainability planning exercises, and further reading. Providing background in theory, practical application, and vision, in a clear, accessible format, The Sustainable Urban Development Reader is an essential resource for students, professionals, and indeed anyone interested in the future of urban environments.

Restored Urban Streams-Ann L. Riley 2015-12 Thirty years ago, urban streams were perceived as little more than flood control devices designed to hurry water through cities and neighborhoods with scant thought for aesthetics or ecological considerations. But stream restoration pioneers like hydrologist Ann Riley argued that by restoring ecological function and with careful management, streams and rivers could be a net benefit to cities instead of a net liability. Riley has since spearheaded numerous urban stream restoration projects and put to rest the long-held misconception that degraded urban streams are beyond help. What has been missing, however, has been detailed guidance for restoration practitioners wanting to undertake similar urban stream restoration projects that worked with, rather than against, nature. This book presents the author's thirty years of practical experience managing long-term stream and river restoration projects in heavily degraded urban environments. Although the case studies are local, the principles, methods, and tools are universal, and can be applied in almost any city in the world.

Stream Corridor Restoration- 1998 This document is a cooperative effort among fifteen Federal agencies and partners to produce a common reference on stream corridor restoration. It responds to a growing national and international interest in restoring stream corridors.
Stream and Watershed Restoration - Philip Roni 2012-09-18 With $2 billion spent annually on stream restoration worldwide, there is a pressing need for guidance in this area, but until now, there was no comprehensive text on the subject. Filling that void, this unique text covers both new and existing information following a stepwise approach on theory, planning, implementation, and evaluation methods for the restoration of stream habitats. Comprehensively illustrated with case studies from around the world, Stream and Watershed Restoration provides a systematic approach to restoration programs suitable for graduate and upper-level undergraduate courses on stream or watershed restoration or as a reference for restoration practitioners and fisheries scientists. Part of the Advancing River Restoration and Management Series. Additional resources for this book can be found at: www.wiley.com/go/roni/streamrestoration.

Rivers Lost, Rivers Regained - Martin Knoll 2017-05-31 Many cities across the globe are rediscovering their rivers. After decades or even centuries of environmental decline and cultural neglect, waterfronts have been vamped up and become focal points of urban life again; hidden and covered streams have been daylighted while restoration projects have returned urban rivers in many places to a supposedly more natural state. This volume traces the complex and winding history of how cities have appropriated, lost, and regained their rivers. But rather than telling a linear story of progress, the chapters of this book highlight the ambivalence of these developments. The four sections in Rivers Lost, Rivers Regained discuss how cities have gained control and exerted power over rivers and waterways far upstream and downstream; how rivers and floodplains in cityscapes have been transformed by urbanization and industrialization; how urban rivers have been represented in cultural manifestations, such as novels and songs; and how more recent strategies work to redefine and recreate the place of the river within the urban setting. At the nexus between environmental, urban, and water histories, Rivers Lost, Rivers Regained points out how the urban-river relationship can serve as a prime vantage point to analyze fundamental issues of modern environmental attitudes and practices.

Revitalizing Urban Waterway Communities - Richard Smardon 2018-06-19 The revitalizing and restoration of rivers, creeks and streams is a major focus of urban conservation activity throughout North America and Europe. This book presents models and examples for organizing multiple stakeholders for purposes of waterway revitalization – if not restoration – within a context of fairness and environmental justice. After decades of neglect and misuse the complexity of cleaning up urban rivers and streams is shown to be complex and truly daunting. Urban river cleanup typically involve multiple agendas and stakeholders, as well as complicated technical issues. It is also often the situation that the most affected have the least voice in what happens. The authors present social process models for maximum inclusion of various stakeholders in decision-making for urban waterway regeneration. A range of examples is presented, drawn principally from North America and Europe.
Environmental Restoration and Design for Recreation and Ecotourism—Robert L. France 2016-04-19 A wetland center in London, parks in downtown San Francisco, a wildlife sanctuary in Arcata, and a wetlands park on the outskirts of Las Vegas—what do these urban and suburban locations have in common? They are leading examples of a new restoration design approach that is squarely placed at the interface of nature and culture. This multidisciplinary paradigm bridges the gap between an ecological approach preoccupied with returning damaged landscapes to an imagined original state and a landscape design approach concerned with creating a place for people to rehabit. Environmental Restoration and Design for Recreation and Ecotourism is the first book to provide a detailed examination of the entire process of restoring damaged or abandoned landscapes to benefit both nature and people, specifically for the purposes of recreation and ecotourism. With a focus on history, planning, methodology, design, and construction, it explores five case studies of successful regenerative landscape design projects and gives readers an inside look at the evolution of design projects. Two of the cases offer a particularly comprehensive review of award-winning projects: the reparation of the degraded Las Vegas Wash into Clark County Wetlands Park and the transformation of the abandoned Barn Elms Reservoirs into the London Wetland Centre. Supported by extensive photographs, tables, maps, sketches, and schematics, these case studies trace how ideas are first conceived and then adopted, transformed, or even abandoned along the way. Each case study also includes a questions-and-answers discussion with designers and managers. Emphasizing the need for interdisciplinary cooperation, the book presents lessons learned from some of the most innovative projects in regenerative landscape design.

Fields and Streams—Rebecca Lave 2012-11-01 Examining the science of stream restoration, Rebecca Lave argues that the neoliberal emphasis on the privatization and commercialization of knowledge has fundamentally changed the way that science is funded, organized, and viewed in the United States. Stream restoration science and practice is in a startling state. The most widely respected expert in the field, Dave Rosgen, is a private consultant with relatively little formal scientific training. Since the mid-1990s, many academic and federal agency–based scientists have denounced Rosgen as a charlatan and a hack. Despite this, Rosgen’s Natural Channel Design approach, classification system, and short-course series are not only accepted but are viewed as more legitimate than academically produced knowledge and training. Rosgen’s methods are now promoted by federal agencies including the Environmental Protection Agency, the U.S. Forest Service, the U.S. Fish and Wildlife Service, and the Natural Resources Conservation Service, as well as by resource agencies in dozens of states. Drawing on the work of Pierre Bourdieu, Lave demonstrates that the primary cause of Rosgen’s success is neither the method nor the man but is instead the assignment of a new legitimacy to scientific claims developed outside the academy, concurrent with academic scientists’ decreasing ability to defend their turf. What is at stake in the Rosgen wars, argues Lave, is not just the ecological health of our rivers and streams but the very future of environmental science.
Urban Sustainability and River Restoration-Katia Perini 2017-02-06 13.1.3 Policies and local community -- References -- Chapter 13.2: Los Angeles River, USA - Opportunities and Policies -- 13.2.1 River revitalization plans -- 13.2.2 Costs and benefits -- 13.2.3 Community involvement -- References -- Chapter 13.3: Madrid Rio, Spain - Opportunities and Policies -- 13.3.1 Project development -- 13.3.2 Project costs and benefits -- References -- Chapter 13.4: Paillon River, France - Opportunities and Policies -- 13.4.1 Framework of French water policies -- 13.4.2 Local policies and projects -- References -- Chapter 13.5: River Thames, England - Opportunities and Policies -- 13.5.1 Water policy framework and planning strategies -- 13.5.2 Local policies and projects -- 13.5.3 Project costs and benefits -- References -- Chapter 13.6: Emscher River, Germany - Opportunities and Policies -- 13.6.1 Project development -- 13.6.2 Policies and participation -- 13.6.3 Project costs and benefits -- References -- Index -- End User License Agreement

Cities Going Green-Roger L. Kemp 2014-01-10 Over the past several decades, numerous planning movements have taken root within the United States. With names like “Urban Renewal,” “Garden Cities,” “Healthy Cities,” “Smart Growth,” “Eco-Cities” and “Sustainability,” these programs promote ways to create, protect, preserve, enhance, and restore the quality of life in cities, towns and suburbs, especially in regards to the natural environment. This guide to the best practices of these programs introduces the rapidly evolving field before presenting more than 40 case studies of communities that are effectively “going green.” An assessment of the future of these towns and cities and resources for citizens and officials seeking additional information conclude the work. By compiling these success stories, this handbook makes an excellent resource for anyone seeking to facilitate the restoration of the natural environment within their community.

Streams of Revenue-Rebecca Lave 2021-01-26 An analysis of stream mitigation banking and the challenges of implementing market-based approaches to environmental conservation. Market-based approaches to environmental conservation have been increasingly prevalent since the early 1990s. The goal of these markets is to reduce environmental harm not by preventing it, but by pricing it. A housing development on land threaded with streams, for example, can divert them into underground pipes if the developer pays to restore streams elsewhere. But does this increasingly common approach actually improve environmental well-being? In Streams of Revenue, Rebecca Lave and Martin Doyle answer this question by analyzing the history, implementation, and environmental outcomes of one of these markets: stream mitigation banking.

Sustainable Urban Development Reader-Stephen M. Wheeler 2014-10-03 Building on the success of its second edition, the third edition of the Sustainable Urban Development Reader provides a generous selection of classic and contemporary readings giving a broad
introduction to this topic. It begins by tracing the roots of the sustainable development concept in the nineteenth and twentieth centuries, before presenting readings on a number of dimensions of the sustainability concept. Topics covered include land use and urban design, transportation, ecological planning and restoration, energy and materials use, economic development, social and environmental justice, and green architecture and building. All sections have a concise editorial introduction that places the selection in context and suggests further reading. Additional sections cover tools for sustainable development, international sustainable development, visions of sustainable community and case studies from around the world. The book also includes educational exercises for individuals, university classes, or community groups, and an extensive list of recommended readings. The anthology remains unique in presenting a broad array of classic and contemporary readings in this field, each with a concise introduction placing it within the context of this evolving discourse. The Sustainable Urban Development Reader presents an authoritative overview of the field using original sources in a highly readable format for university classes in urban studies, environmental studies, the social sciences, and related fields. It also makes a wide range of sustainable urban planning-related material available to the public in a clear and accessible way, forming an indispensable resource for anyone interested in the future of urban environments.

**Stream Hydrology**-Nancy D. Gordon 2013-05-03 Since the publication of the first edition (1994) there have been rapid developments in the application of hydrology, geomorphology and ecology to stream management. In particular, growth has occurred in the areas of stream rehabilitation and the evaluation of environmental flow needs. The concept of stream health has been adopted as a way of assessing stream resources and setting management goals. Stream Hydrology: An Introduction for Ecologists Second Edition documents recent research and practice in these areas. Chapters provide information on sampling, field techniques, stream analysis, the hydrodynamics of moving water, channel form, sediment transport and commonly used statistical methods such as flow duration and flood frequency analysis. Methods are presented from engineering hydrology, fluvial geomorphology and hydraulics with examples of their biological implications. This book demonstrates how these fields are linked and utilised in modern, scientific river management. Emphasis on applications, from collecting and analysing field measurements to using data and tools in stream management. Updated to include new sections on environmental flows, rehabilitation, measuring stream health and stream classification. Critical reviews of the successes and failures of implementation. Revised and updated windows-based AQUAPAK software. This book is essential reading for 2nd/3rd year undergraduates and postgraduates of hydrology, stream ecology and fisheries science in Departments of Physical Geography, Biology, Environmental Science, Landscape Ecology, Environmental Engineering and Limnology. It would be valuable reading for professionals working in stream ecology, fisheries science and habitat management, environmental consultants and engineers.
River Restoration-Stephen Darby 2008-02-28 River restoration projects are designed to recreate functional characteristics within a context of physical stability. They tend to focus on the development and application of geomorphic principles for river restoration design. Due to different models obtaining different results on the same problem, incomplete or absent data, and climatic/social/cultural changes, the designers and managers of such projects frequently face high levels of uncertainty. This book will provide a systematic overview of the issues involved in minimizing and coping with uncertainty in river restoration projects. A series of thematic sections will be used to define the various sources of uncertainty in restoration projects and how these show at different points in the life cycle (design, construction and post-construction phases) of restoration projects. The structure of the book will offer a rational theoretical analysis of the problem while providing practical guidance in managing the different sources of uncertainty. A wide range of case studies will be included from Europe, North America and Australasia

National Management Measures to Control Nonpoint Source Pollution from Urban Areas- 2005


Restoration of Aquatic Ecosystems-National Research Council 1992-01-01 Aldo Leopold, father of the "land ethic," once said, "The time has come for science to busy itself with the earth itself. The first step is to reconstruct a sample of what we had to begin with." The concept he expressedâ€"restorationâ€"is defined in this comprehensive new volume that examines the prospects for repairing the damage society has done to the nation's aquatic resources: lakes, rivers and streams, and wetlands. Restoration of Aquatic Ecosystems outlines a national strategy for aquatic restoration, with practical recommendations, and features case studies of aquatic restoration activities around the country. The committee examines: Key concepts and techniques used in restoration. Common factors in successful restoration efforts. Threats to the health of the nation's aquatic ecosystems. Approaches to evaluation before, during, and after a restoration project. The emerging specialties of restoration and landscape ecology.

Rivertown-Paul Stanton Kibel 2007 "Each case study in Rivertown considers the critical questions of who makes decisions about our urban rivers, who pays to implement these decisions, and who ultimately benefits or suffers from these decisions." --book cover.
The Watershed Project Management Guide - Thomas E. Davenport 2002-08-28 A key question for individuals involved in managing watersheds is, "What is an effective process that will integrate science, policy, and public participation in order to help manage water resources effectively?" The Watershed Project Management Guide presents a four-phase approach to watershed management that is based on a collaborative process that responds to common needs and goals. It utilizes assessments and decision processes that are based on local knowledge and a combination of biophysical, social, and economic information. Individually these principles and practices are not new, but in combination they describe an innovative approach for addressing complex water and related management issues. This recommended process consists of a series of four basic phases; Assessment, Planning, Implementation, and Evaluation, which are built on stakeholder involvement, social capacity, and adequate monitoring. This four-phased approach will assist watershed practitioners develop a plan consistent with the recently released USDA-EPA Watershed Management Planning and Implementation Process guidance. This process can be used to implement a management strategy to meet the load allocations required by an approved Total Maximum Daily Load (TMDL), the goals of a Source Water Protection Plan, USDA programs such as EQIP, or Section 319 Project. The process outlined in the text is applicable for both restoration and prevention projects. The Watershed Project Management Guide focuses on the complexities of the watershed management process, the watershed partnership's role in the processes, and what needs to be done next. The author has kept the technical jargon to a minimum to help the reader easily grasp the important points and where appropriate directs the reader to specific resources and references for further information. About the Author: Thomas E. Davenport is an Environmental Scientist for the U. S. Environmental Protection Agency and was designated as the Agency's National Expert on Nonpoint Source Control in 1991. Dr. Davenport has received seven Bronze Medals from the EPA for outstanding contributions for various activities related to nonpoint source, lake restoration, and watershed management. Dr. Davenport has published over 40 papers, book chapters, and project reports. Present duties include serving as the Water Program Lead for the Great Lakes/Baltic Seas and 3 Rivers 3 Countries Watershed Capacity Building Projects.

Restoration Ecology - Jelte van Andel 2009-03-12 Aimed at Masters, and PhD students, teachers, researchers and natural resource managers, this book explores the interface between restoration ecology and ecological restoration. Covers both the ecological concepts involved in restoration ecology and their practical applications. Written by an excellent group of ecologists from centres across Europe with a strong reputation for restoration ecology. Only textbook around aimed specifically at advanced undergraduate courses and postgraduate study programmes.
A Practitioner's Guide to Freshwater Biodiversity Conservation-Nicole Silk 2013-04-10 A Practitioner's Guide to Freshwater Biodiversity Conservation brings together knowledge and experience from conservation practitioners and experts around the world to help readers understand the global challenge of conserving biodiversity in freshwater ecosystems. More importantly, it offers specific strategies and suggestions for managers to use in establishing new conservation initiatives or improving the effectiveness of existing initiatives. The book: offers an understanding of fundamental issues by explaining how ecosystems are structured and how they support biodiversity; provides specific information and approaches for identifying areas most in need of protection; examines promising strategies that can help reduce biodiversity loss; and describes design considerations and methods for measuring success within an adaptive management framework. The book draws on experience and knowledge gained during a five-year project of The Nature Conservancy known as the Freshwater Initiative, which brought together a range of practitioners to create a learning laboratory for testing ideas, approaches, tools, strategies, and methods. For professionals involved with land or water management-including state and federal agency staff, scientists and researchers working with conservation organizations, students and faculty involved with freshwater issues or biodiversity conservation, and policymakers concerned with environmental issues-the book represents an important new source of information, ideas, and approaches.

The Restoration Economy-Storm Cunningham 2002-11-02 The Restoration Economy reveals the previously undocumented trillion-dollar global industries that are restoring our natural and manmade environments. Restorative development is rapidly overtaking new development because we are running out of things to develop. Most natural areas are already either farmed or degraded, and cities have built all the way to their borders. However, there is no lack of things to redevelop and restore. Storm Cunningham surveys the wide range of restoration industries and points out the connections among them. He shows, for example, how the restoration of a river ecosystem can have a major impact on the commercial success of a redeveloped historic urban waterfront. Written for a broad range of audiences, The Restoration Economy is an entertaining blend of business, science, and economics that details exciting new business and investment opportunities in this dynamic economic sector.

Encyclopedia of Geomorphology-Andrew Goudie 2013-04-15 Geomorphology, the discipline which analyzes the history and nature of the earth's surface, deals with the landforms produced by erosion, weathering, deposition, transport and tectonic processes. In recent decades there have been major developments in the discipline and these are reflected in this major Encyclopedia, the first such reference work in the field to be published for thirty-five years. Encyclopedia of Geomorphology has been produced in association with the International Association of Geomorphologists (IAG) and has a truly global perspective. The entries have been written by an international editorial team of contributors, drawn from over thirty countries, who are all among the leading experts in the discipline. In
two lavishly illustrated volumes, Encyclopedia contains nearly 700 alphabetically organized entries to provide a comprehensive guide both to specific landforms and to the major types of geomorphological processes that create them. The Encyclopedia also demonstrates the major developments that have taken place in recent years in our knowledge of tectonic and climatic changes and in the use of new techniques such as modelling, remote sensing and process measurement. Older concepts, however, are not forgotten and provide an historical perspective on the development of ideas. Both accessible and authoritative, Encyclopedia of Geomorphology is destined to become the definitive resource for students, researchers and applied practitioners in the field of geomorphology and the cognate disciplines of geography, earth science, sedimentology and environmental science.

Riparian Areas-National Research Council 2002-10-10 The Clean Water Act (CWA) requires that wetlands be protected from degradation because of their important ecological functions including maintenance of high water quality and provision of fish and wildlife habitat. However, this protection generally does not encompass riparian areas—"the lands bordering rivers and lakes"—even though they often provide the same functions as wetlands. Growing recognition of the similarities in wetland and riparian area functioning and the differences in their legal protection led the NRC in 1999 to undertake a study of riparian areas, which has culminated in Riparian Areas: Functioning and Strategies for Management. The report is intended to heighten awareness of riparian areas commensurate with their ecological and societal values. The primary conclusion is that, because riparian areas perform a disproportionate number of biological and physical functions on a unit area basis, restoration of riparian functions along America’s waterbodies should be a national goal.

River Channel Management-Peter Downs 2014-02-24 River Channel Management is the first book to deal comprehensively with recent revolutions in river channel management. It explores the multi-disciplinary nature of river channel management in relation to modern management techniques that bear the background of the entire drainage basin in mind, use channel restoration where appropriate, and are designed to be sustainable. River Channel Management is divided into five sections: ·The Introduction outlines the need for river channel management. ·Retrospective Review offers an overview of twentieth century engineering methods and the ways that river channel systems operate. ·Realisation explains how greater understanding of river channel adjustments, channel hazards and river basin planning created a context for twenty-first century management. ·Requirements for Management explains and examines environmental assessment, restoration-based approaches, and methods that work towards 'design with nature'. ·Final Revision speculates about prospects for twenty-first century river channel management. River Channel Management is written for higher-level undergraduates and for postgraduates in geography, ecology, engineering, planning, geology and environmental science, for professionals involved in river channel management, and for staff in environmental agencies.
Restoring the Pacific Northwest- Dean Apostol 2012-09-26 The Pacific Northwest is a global ecological "hotspot" because of its relatively healthy native ecosystems, a high degree of biodiversity, and the number and scope of restoration initiatives that have been undertaken there. Restoring the Pacific Northwest gathers and presents the best examples of state-of-the-art restoration techniques and projects. It is an encyclopedic overview that will be an invaluable reference not just for restorationists and students working in the Pacific Northwest, but for practitioners across North America and around the world.

Sustainable water management in the tropics and subtropics - and case studies in Brazil. Vl. 3-

Protection, Management, and Restoration for the 1990's- 1990

Handbook of Regenerative Landscape Design- Robert L. France 2007-10-18 What if environmentally damaged landscapes could not only be remediated from an ecological standpoint, but also designed to replenish an entire community as well as the nature surrounding it? The Handbook of Regenerative Landscape Design incorporates ecology, engineering, sociology, and design elements into a new paradigm for environmental restoration and the renewal of urban and cultural sites. This is the first resource in the field to examine the collaborative roles of scientists, landscape architects, and urban planners in transforming degraded landscapes into sustainable communities for both people and wildlife. Top practitioners and theorists from different fields and perspectives contribute innovative case studies that converge in their emphasis on new uses for reclaimed land, rather than a return to its original state. In addition, this book is one in only a handful to address the system conditions necessary for the repair of severely degraded landscapes, especially in an urban context. It elucidates the most suitable remediation strategies for treating degraded environments such as industrial landfills, mining sites, buried urban rivers, heavily polluted or effectively destroyed wetlands, Superfund sites, and abandoned factories. Bringing the perspectives of landscape architects, scientists, and urban planners to a wider audience, the Handbook of Regenerative Landscape Design demonstrates how ecological landscape restoration processes can facilitate sociological and urban renewal initiatives.

The Sunflower Forest- William R. Jordan 2012-02-07 Ecological restoration, the attempt to guide damaged ecosystems back to a previous, usually healthier or more natural, condition, is rapidly gaining recognition as one of the most promising approaches to conservation. In this book, William R. Jordan III, who coined the term "restoration ecology," and who is widely respected as an intellectual leader in the field, outlines a vision for a restoration-based environmentalism that has emerged from his work over twenty-
Restoring Streams In Cities A Guide For Planners Policymakers And Citizens

five years. Drawing on a provocative range of thinkers, from anthropologists Victor Turner, Roy Rappaport, and Mary Douglas to literary critics Frederick Turner, Leo Marx, and R.W.B. Lewis, Jordan explores the promise of restoration, both as a way of reversing environmental damage and as a context for negotiating our relationship with nature. Exploring restoration not only as a technology but also as an experience and a performing art, Jordan claims that it is the indispensable key to conservation. At the same time, he argues, restoration is valuable because it provides a context for confronting the most troubling aspects of our relationship with nature. For this reason, it offers a way past the essentially sentimental idea of nature that environmental thinkers have taken for granted since the time of Emerson and Muir.

Environmental Hydrology-Andy D. Ward 2015-09-17 The late Professor Reds Wolman in his Foreword to the award-winning second edition said, "This is not your ordinary textbook. Environmental Hydrology is indeed a textbook, but five elements often found separately combine here in one text to make it different. It is eclectic, practical, in places a handbook, a guide to fieldwork, engagingly personal

Planning and Urban Design Standards-American Planning Association 2006-02-03 From the publishers of Architectural Graphic Standards, this book, created under the auspices of The American Planning Association, is the most comprehensive reference book on urban planning, design, and development available today. Contributions from more than two hundred renowned professionals provide rules of thumb and best practices for mitigating such environmental impacts as noise, traffic, aesthetics, preservation of green space and wildlife, water quality, and more. You get in-depth information on the tools and techniques used to achieve planning and design outcomes, including economic analysis, mapping, visualization, legal foundations, and real estate developments. Thousands of illustrations, examples of custom work by today's leading planners, and insider information make this work the new standard in the field. Order your copy today.

Rethinking Environmentalism-Sharachchandra Lele 2019-03-29 A multidisciplinary examination of alternative framings of environmental problems, with using examples from forest, water, energy, and urban sectors. Does being an environmentalist mean caring about wild nature? Or is environmentalism synonymous with concern for future human well-being, or about a fair apportionment of access to the earth's resources and a fair sharing of pollution burdens? Environmental problems are undoubtedly one of the most salient public issues of our time, yet environmental scholarship and action is marked by a fragmentation of ideas and approaches because of the multiple ways in which these environmental problems are "framed." Diverse framings prioritize different values and explain problems in various ways, thereby suggesting different solutions. Are more inclusive framings possible? Will this enable more
socially relevant, impactful research and more concerted action and practice? This book takes a multidisciplinary look at these questions using examples from forest, water, energy, and urban sectors. It explores how different forms of environmentalism are shaped by different normative and theoretical positions, and attempts to bridge these divides. Individual perspectives are complemented by comprehensive syntheses of the differing framings in each sector. By self-reflectively exploring how researchers study and mobilize evidence about environmental problems, the book opens up the possibility of alternative framings to advance collaborative and integrated understanding of environmental problems and sustainability challenges.

**Urban Ecology**-Ian Douglas 2014-10-30 Urban Ecology: An Introduction seeks to open the reader’s mind and eyes to the way in which nature permeates everyday urban living, and how it has to be understood, cared for, and managed in order to make our towns and cities healthier places to visit and in which to live and work. The authors examine how nature can improve our physical and mental health, the air we breathe and the waters we use, as well as boosting our enjoyment of parks and gardens. Urban Ecology sets out the science that underlies the changing natural scene and the tools used to ensure that cities become both capable of adapting to climate change and more beautiful and resilient. The book begins with a discussion of the nature of urban places and the role of nature in towns and cities. Part 1 looks at the context and content of urban ecology, its relationship to other foci of interest within ecology and other environmental sciences, and the character of city landscapes and ecosystems. In Part 2 the authors set out the physical and chemical components of urban ecosystems and ecological processes, including urban weather and climate, urban geomorphology and soils, urban hydrology and urban biogeochemical cycles. In Part 3 urban habitats, urban flora and fauna, and the effects of, deliberate and inadvertent human action on urban biota are examined. Part 4 contains an exploration of the identification and assessment of ecosystem services in urban areas, emphasising economic evaluation, the importance of urban nature for human health and well-being, and restoration ecology and creative conservation. Finally, in Part 5 the tasks for urban ecologists in optimising and sustaining urban ecosystems, providing for nature in cities, adapting to climate change and in developing the urban future in a more sustainable manner are set out. Within the 16 chapters of the book – in which examples from around the world are drawn upon - the authors explore current practice and future alternatives, set out procedures for ecological assessment and evaluation, suggest student activities and discussion topics, provide recommended reading and an extensive bibliography. The book contains more than 150 tables and over 150 photographs and diagrams.

**Kissed by a Fox**-Priscilla Stuckey 2012-09-01 "Dissatisfaction with nature flows throughout Western civilization, as deep as its blood, as abiding as its bones. Convinced to the marrow that something is deeply wrong with nature, . . . the Western world tries to remake it into something better." For Priscilla Stuckey, this is a fundamental and heartbreaking misconception: that nature can be fixed, exploited, or simply ignored. Modern societies try to bend nature to human will instead of engaging in give-and-take with a living, breathing land
community. Using her personal experiences as the cornerstone, Stuckey explores the depth of relationship possible with the birch tree in our backyard, the nearby urban creek, the dog who settles on our bed each night. Drawing inspiration from sources as varied as ancient philosophers and contemporary biologists, Stuckey challenges readers to enact a different story of nature, one in which people and place are not separate, where other creatures respond to human need, and where humans and all others together create the world. With the eloquence of the great nature writers before her, Stuckey encourages us to open ourselves to the unlimited possibilities of a truly connected life.
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