

Restoration ecology



A synthetic
approach to ecological research

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William R. Jordan III
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Restoration Ecology A Synthetic Approach To Ecological Research

Michael Paul Marchetti, Peter B. Moyle



Restoration Ecology A Synthetic Approach To Ecological Research:

Restoration Ecology William R. Jordan, Michael E. Gilpin, John D. Aber, 1990-08-16 Although interest in ecological restoration has grown rapidly in recent years restoration efforts have been highly empirical and have therefore been of only marginal interest to theoretical ecologists concerned with the structure and dynamics of communities The ability to reassemble a community or ecosystem and to make it function properly actually represents a critical test of ecological understanding in the most fundamental sense It is this idea of restoration as a technique and even a paradigm for ecological studies leading in turn to improved restoration methods that is the subject of this book *Restoration Ecology*, 1987

Restoration Ecology William R. Jordan, 1987 Although interest in ecological restoration has grown rapidly in recent years restoration efforts have been highly empirical and have therefore been of only marginal interest to theoretical ecologists concerned with the structure and dynamics of communities The ability to reassemble a community or ecosystem and to make it function properly actually represents a critical test of ecological understanding in the most fundamental sense It is this idea of restoration as a technique and even a paradigm for ecological studies leading in turn to improved restoration methods that is the subject of this book Restoration Ecology William R. Jordan (III.), Michael E. Gilpin, John D. Aber, 1990 **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 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 **The Routledge Companion to**

Environmental Ethics Benjamin Hale, Andrew Light, Lydia Lawhon, 2022-07-29 Written for a wide range of readers in environmental science philosophy and policy oriented programs The Routledge Companion to Environmental Ethics is a landmark comprehensive reference work in this interdisciplinary field Not merely a review of theoretical approaches to the ethics of the environment the Companion focuses on specific environmental problems and other concrete issues Its 65 chapters all appearing in print here for the first time have been organized into the following eleven parts I Animals II Land III Water IV Climate V Energy and Extraction VI Cities VII Agriculture VIII Environmental Transformation IX Policy Frameworks

and Response Measures X Regulatory Tools XI Advocacy and Activism The volume not only explains the nuances of important core philosophical positions but also cuts new pathways for the integration of important ethical and policy issues into environmental philosophy It will be of immense help to undergraduate students and other readers coming up to the field for the first time but also serve as a valuable resource for more advanced students as well as researchers who need a trusted resource that also offers fresh policy centered approaches

Planted Forests: Contributions to the Quest for Sustainable Societies James Reid Boyle, Jack K. Winjum, Kathleen Kavanagh, Edward C. Jensen, 2013-03-09 Planted forests from irrigated eucalypts in Brazil to Douglas fir seedlings in the mountains of Oregon are described and discussed by international experts The varieties purposes forms and ecological economic and social aspects of planted forests are considered in technical details and in case studies from temperate and tropical regions of the world

Fifty Years of Invasion Ecology David M. Richardson, 2011-02-23 Invasion ecology is the study of the causes and consequences of the introduction of organisms to areas outside their native range Interest in this field has exploded in the past few decades Explaining why and how organisms are moved around the world how and why some become established and invade and how best to manage invasive species in the face of global change are all crucial issues that interest biogeographers ecologists and environmental managers in all parts of the world This book brings together the insights of more than 50 authors to examine the origins foundations current dimensions and potential trajectories of invasion ecology It revisits key tenets of the foundations of invasion ecology including contributions of pioneering naturalists of the 19th century including Charles Darwin and British ecologist Charles Elton whose 1958 monograph on invasive species is widely acknowledged as having focussed scientific attention on biological invasions

Beyond Preservation A. Dwight Baldwin, Judith De Luce, Carl Pletsch, 1994

Ecological Engineering Patrick Kangas, 2003-09-25 Less expensive and more environmentally appropriate than conventional engineering approaches constructed ecosystems are a promising technology for environmental problem solving Undergraduates graduate students and working professionals need an introductory text that details the biology and ecology of this rapidly developing discipline known as

Protecting Life on Earth Michael Paul Marchetti, Peter B. Moyle, 2010-09-01 Written to be accessible to any college level reader Protecting Life on Earth offers a non technical yet comprehensive introduction to the growing field of conservation science This multifaceted exploration of our current biodiversity crisis delivers vivid examples throughout including features on some of nature s most compelling wildlife Beginning with a brief introduction to environmental history the text introduces the central concepts of evolution and ecology and covers several major issues related to the conservation of biodiversity including extinction climate change sustainability conservation law and invasive species It also touches on adjacent disciplines such as economics and sociology as they relate to conservation The text even includes practical advice on the decisions we make every day how we spend our money where we live and work what we eat and buy Throughout Protecting Life on Earth underscores the ways in which our future is tied to that of Earth s

threatened species and demonstrates exactly why conservation is so vitally important for us all *PLUMP, a Plume Predictor and Cloud Model for Fire Managers* Don J. Latham, 1994 **General Technical Report INT.**, 1994 **Urban Futures** Tim Hall, Malcolm Miles, 2004-11-23 Urban Futures brings together commentaries from a wide range of contemporary disciplines and fields relevant to urban culture form and society The book concerns cities in the broadest sense not just as buildings and spaces but also as processes and events or sites of occupation in which meanings are constructed in many ways The contributors draw on their specialist areas of research to inform current debate but they also speculate as to how cities will be shaped in the 21st century Specific areas of research include homeless people s organisations and restoration ecology in brownfield sites in the USA post industrial urban landscapes post industrial economics tourism and cultural planning The book allows each writer to state their own conclusions but together they suggest that tomorrow s cities will while remaining locations of difference and contestation be rapidly evolving systems in which dwellers assume increasing responsibilities and power *Estuarine Indicators* Stephen A. Bortone, 2004-12-28 Acknowledging the present inability to determine objectively the status and trends among estuarine ecosystems the environmental research community has recently stepped up efforts to develop and evaluate meaningful estuarine indicators This goal requires the effort of researchers from a broad spectrum of disciplines In order to expedite this init Temas sobre restauración ecológica Oscar Sánchez, 2005

Park Science, 1981 **Sustainability Science** Michael P. Weinstein, R. Eugene Turner, 2012-06-05 The object of this book is to highlight how the nascent field of sustainability science is addressing a key challenges for scientists that is understanding the workings of complex systems especially when humans are involved A consistent thread in the sustainability science movement is the wide acknowledgement that greater degrees of integration across what are now segmented dimensions of extant Science and Technology systems will be a key factor in matching the most appropriate science and technology solutions to specific sustainability problems in specific places *Reclamation of Mine-impacted Land for Ecosystem Recovery* Nimisha Tripathi, Raj S. Singh, Colin D. Hills, 2016-02-04 Mining activities significantly impact the environment they generate huge quantities of spoil promote deforestation and the loss of agricultural production as well as releasing contaminants that result in the loss of valuable soil resources These negative impacts are now being recognized and this book shows how corrective action can be taken The introduction of sustainable mining requires mitigation strategies that start during the mine planning stage and extend to after mineral extraction has ceased and post closure activities are being executed Reclamation of Mine impacted Land for Ecosystem Recovery covers methods of rejuvenation of mine wasteland including different practices of physical chemical and ecological engineering methods benefits of rejuvenation stabilization of land surfaces pollution control aesthetic improvement general amenity plant productivity and carbon sequestration as well as restoring biodiversity and ecosystem function best management practices and feasible solutions to the impacts of mining which will reduce the pollution load by reducing the discharge rate and the pollutant concentration

reduce erosion and sedimentation problems and result in improved abandoned mine lands and ecosystem development The authors explain how mining impacts on soil properties and how soil carbon reserves soil fertility can be restored when mining has ceased Restoration involves a coordinated approach that recognizes the importance of key soil properties to enable re vegetation to take place rapidly and ecosystems to be established in a low cost and sustainable way This book s unique combination of the methods for reclamation technologies with policies and best practice worldwide will provide the background and the guidance needed by scientists researchers and engineers engaged in land reclamation as well as by industry managers

Lessons Learned in Protecting and Restoring Biodiversity Bonnie L. Harper-Lore, Gary K. Lore, 2024-09-11 We have everything we need to begin solving this crisis with the exception of the will to act But in America our will to take action is itself a renewable resource Al Gore 2002 This book explains why we should take action and how to do so giving insights saving time and money for future generations Earth s biodiversity is threatened in many ways including by climate change invasive species and development Conservation response cannot be defined by political boundaries yet lands are commonly managed at the local state and national levels These authors actions from all levels crossed lines to partner and get things done for the greater good Expert educators scientists practitioners citizens and policymakers took action and contributed to the present volume Conservation requires a multidisciplinary approach and so herein some 50 disciplines inform and inspire future practices and policies Students and professionals alike in applied ecology wildlife biology entomology botany land management landscape architecture journalism ethics and public policy benefit from these authorities stories

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