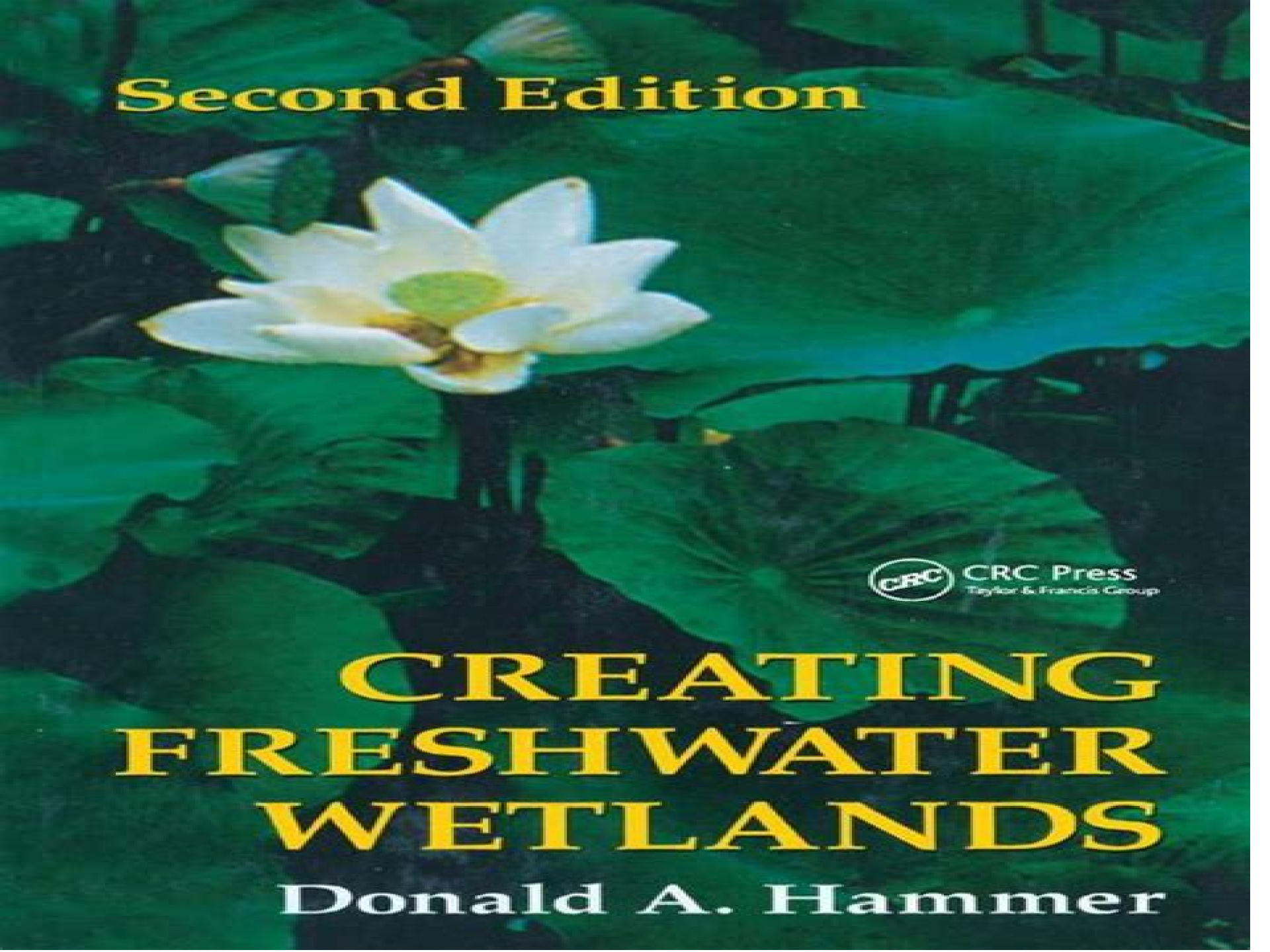




Second Edition

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CREATING FRESHWATER WETLANDS

Donald A. Hammer

Creating Freshwater Wetlands

Daniela Niemeyer



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consistent and coherent organization for ease of discoverability The table of contents is divided into four main subjects Foundations Restoration of Freshwater Wetlands Restoration of Estuarine Wetlands and From Theory to Practice each with multiple chapters Part 1 Foundations contains chapters describing definitions of wetlands ecological theory used to guide restoration and considerations on where to implement restoration on the landscape In Parts 2 and 3 restoration of specific freshwater marshes forests peatlands and estuarine tidal marshes mangroves wetlands are described Part 4 From Theory to Practice contains chapters describing performance standards to gauge success of projects and case studies describing small scale and large scale restoration projects of various freshwater and estuarine wetlands Each chapter contains clearly labeled sections which assist the reader to quickly and easily key in on the subject matter that they are seeking The approach of *Creating and Restoring Wetlands* is unique in that in each chapter it links ecological theory important to ecosystem restoration with practical techniques to undertake and implement successful wetland restoration projects including recommendations for performance standards to gauge success as well as realistic expectations and timescales for achieving success Each chapter ends with a summary table describing keys to ensure success for a given wetland ecosystem Each chapter ends with a summary table describing keys to ensure success for a given wetland ecosystem Written by a single author providing a consistent structure that is coherent cohesive and well referenced Contains case studies of small and large scale restoration activities ensuring relevance to individuals and organizations Wetland Creation and Restoration Mary E. Kentula,1989 *Wetland Creation and Restoration* Karen Schneller-McDonald, Lee S. Ischinger, Gregor T. Auble,1990 This report provides a hard copy of the bibliographic information contained in the digital Wetland Creation Restoration Data Base One thousand one hundred data base records are included each of these represents one article report or other publication dealing with the creation or restoration of wetlands Information in the records is accessible via a cross referenced index divided into four sections Location Index Plant Genus Index Wetland Type Index and Subject Index Page 1 Abstract Wetland Creation and Restoration: Regional reviews Jon A. Kusler, Mary E. Kentula,1989 **Tropical**

Freshwater Wetlands H. Roggeri,2013-03-09 Wetlands could be described as land and water at the same time and as such are very specific on the brink ecosystems Their often rich variety of resources makes them highly valuable to the peoples who live With a few exceptions like the Everglades in the or regularly stay in them However access to them United States the last remaining large wetlands are to be found in developing countries Perhaps this can be difficult and those unaware of their services be explained by insufficient financial resources frequently associate wetlands with such nuisances and calamities as mosquitos disease floods impede lower population density or a different concept of extractable wastelands etc As a result these areas are development and well being Whatever the reasons often perceived as obstacles to human development many tropical wetlands still exist and support the and well being subsistence of many communities But for how much History reflects these two views Wetlands may longer have been the cradle of great civilizations like the

During the last few decades tropical wetlands Maya Inca Aztec Nilotic and Mesopotamian have also been destroyed or considerably altered Dams and embankments now prevent water from civilizations but elsewhere their destruction allowed other societies to develop For example the Nether spreading into the floodplains of several rivers like lands literally emerged from the waters thanks to the Senegal Volta and Nile

Wetlands: Ecosystem Services, Restoration and Wise Use Shuqing An, Jos T. A. Verhoeven, 2019-07-04 This volume explores major wetland ecosystem services such as climate cooling and water quality improvement and discusses the recent wetland conservation and restoration activities in China and neighboring countries The role of wetlands in either cooling or warming the climate is analyzed as the net balance between carbon sequestration and emissions of methane and nitrous oxide Wetlands start off having a net warming effect on the climate but in time switch to net cooling Further they remove 40% of the N and P from run off and groundwater flow in agricultural areas but wetlands need to amount to 10% of the total catchment area to make a difference Reflecting on the recent large investment in wetland ecological studies in China and neighboring countries the book addresses invasive species in coastal wetlands as well as the protection and wise use of tidal flats around the Yellow Sea It also presents promising regional case studies on wetland restoration The book is intended for academics students and practitioners in the field of wetland ecology management and restoration as well as consultants and professionals working in conservation wise use and environmental policy

Compensating for Wetland Losses Under the Clean Water Act National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Board on Environmental Studies and Toxicology, Committee on Mitigating Wetland Losses, 2001-12-06 Recognizing the importance of wetland protection the Bush administration in 1988 endorsed the goal of no net loss of wetlands Specifically it directed that filling of wetlands should be avoided and minimized when it cannot be avoided When filling is permitted compensatory mitigation must be undertaken that is wetlands must be restored created enhanced and in exceptional cases preserved to replace the permitted loss of wetland area and function such as water quality improvement within the watershed After more than a dozen years the national commitment to no net loss of wetlands has been evaluated This new book explores the adequacy of science and technology for replacing wetland function and the effectiveness of the federal program of compensatory mitigation in accomplishing the nation's goal of clean water It examines the regulatory framework for permitting wetland filling and requiring mitigation compares the mitigation institutions that are in use and addresses the problems that agencies face in ensuring sustainability of mitigated wetlands over the long term Gleaning lessons from the mixed results of mitigation efforts to date the book offers 10 practical guidelines for establishing and monitoring mitigated wetlands It also recommends that federal state and local agencies undertake specific institutional reforms This book will be important to anyone seeking a comprehensive understanding of the no net loss issue policy makers regulators environmental scientists educators and wetland advocates

Wetland Mitigation Banking United States. Congress. Senate. Committee on Environment and Public Works, 1996

Creating Successful

Communities Luther Propst, Stephen F. Harper, Michael The Conservation Foundation, Michael Mantell, 2012-07-11 Creating Successful Communities is a practical compendium of techniques for effective land use and growth management It offers a framework for land use decisionmaking and growth management techniques for protecting key resources such as agricultural land open space historic and cultural structure aesthetics and rivers and wetlands as well as ways to organize effectively The companion Resource Guide provides detailed information on topics covered in I Creating Successful Communities Reauthorization of the Clean Water Act United States. Congress. Senate. Committee on Environment and Public Works. Subcommittee on Clean Water, Fisheries, and Wildlife, 1994 Joe Ney and Upper Pony Creek Reservoirs Expansion Project, Coos County , 1999 National Water Summary on Wetland Resources Judy D. Fretwell, 1996 U.S. Geological Survey Water-supply Paper , 1982 2005 Model Drainage Manual , **Restoring the Pacific Northwest** Dean Apostol, Marcia Sinclair, 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

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Creating Freshwater Wetlands Introduction

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