

CREATING AND RESTORING WETLANDS

From Theory to Practice

CHRISTOPHER CRAFT

Summarizes the state of our understanding of the field of wetland restoration, both coastal and inland, in the context of ecological theory.

KEY FEATURES

- Explicitly links ecological theory to restoration efforts in a variety of (freshwater and estuarine; natural, agricultural, and urban landscapes) wetland ecosystems
- Contains case studies of small- and large-scale restoration activities ensuring relevance to individuals and organizations
- Illustrates successes as well as failures of freshwater and estuarine wetland restorations in order to learn from them

Creating and Restoring Wetlands describes the challenges and opportunities of restoring freshwater and estuarine wetlands in natural, agricultural and urban environments in the coming century. The underpinnings of restoration, driven by ecological (disturbance, dispersal, succession) theory, are described and applied to various activities (restoring hydrology, soils and biota) that are used to improve the short- and long-term success of wetland restoration projects. Unforeseen problems that hinder restoration efforts and solutions to these problems are discussed.

This book contains five sections that consist of an introduction describing the defining characteristics of wetland, restoration of various estuarine and freshwater wetlands, case studies of estuarine and freshwater restoration and large-scale restoration and the future of wetland restoration.

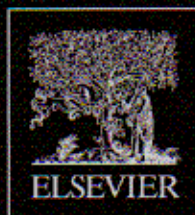
ABOUT THE AUTHOR

Christopher Craft is the Janet Duey Professor of Rural Land Policy, Indiana University, where he teaches courses in environmental science, applied ecology, wetlands ecology, and restoration ecology. His introduction to wetland science began in 1983 when, as a new Ph.D. student, he began studying the ecosystem development of tidal marshes that had been created and restored along the North Carolina coast in the 1960s and 1970s. Since that time, Christopher worked on restoration projects in freshwater wetlands of the Florida Everglades, Upper Klamath Lake (Oregon) and the agricultural landscapes of Midwest and in estuarine wetlands of the southeast (Sapelo Island, GA), New England and New York–New Jersey harbor. Professor Craft served as President of the Society of Wetland Scientists from 2008–2009. In 2012, he received the National Wetlands Award for Science Research, given annually by the Environmental Law Institute and six US governmental agencies. His research interests extend to the effects of eutrophication and climate change and his work carries to Europe, China and South America. In 2015, Professor Craft was selected as a Fellow of the Society of Wetlands Scientists, the highest recognition of membership bestowed by the Society.

RELATED TITLES

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ISBN 978-0-12-407232-9



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