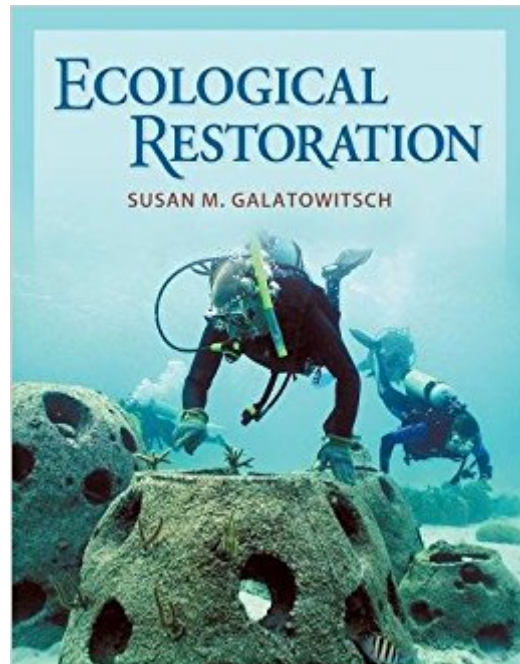




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# Ecological Restoration



## Synopsis

Ecological Restoration provides a comprehensive overview of the strategies being used around the world to reverse human impacts to landscapes, ecosystems, and species. This book aims to improve the outcomes of restoration practice by strengthening the connections between ecological concepts and real-world decision-making: students explore each topic considering both research-based knowledge and lessons learned from nineteen actual restorations. Details of these ecological restorations, from underwater reefs to mines in hot deserts, are woven into each chapter, presented as case studies, and used in exercises. Because introductory ecological restoration courses are taken by undergraduate students from a wide variety of academic backgrounds, the book explains and applies basic concepts from many supporting fields that serve as the foundation for practice, including ecology, conservation biology, earth and water sciences, environmental design, and public policy. For Instructors (Available to Qualified Adopters) Instructor's Resource Library The Instructor's Resource Library features all of the textbook's figures and tables, provided both as JPEGs (high-and low-resolution) and ready-to-use PowerPoint presentations. All of the images have been formatted and optimized for excellent projection quality.

## Book Information

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## Customer Reviews

"Ecological Restoration is a well-written, well-produced, and well-illustrated overview of the science of restoration ecology. The text is clear and readable. It recognizes the biological, social, and (to a lesser degree) economic aspects of modern restoration. It deservedly will become a required text in

many restoration ecology courses, and should be on the shelves of restoration researchers and practitioners. This book does an admirable job summarizing the current state of a diverse and ever-changing field."--Truman P. Young, *Ecological Restoration*"Finally, with the publication of *Ecological Restoration* by Susan M. Galatowitsch, students and other users will have a more circumspect and comprehensive understanding of what really is required of successful ecological restoration projects. Nineteen case studies from around the world add clarity and depth to the process and acts of restoration. I would recommend *Ecological Restoration* for an introductory ecosystem restoration course as well as for advanced coursework and practical field courses, along with other complementary books."--Steven I. Apfelbaum, *Ecological Restoration*"Until recently, practitioners and those teaching ecological restoration to future planners, policy makers, managers, or researchers have been without a comprehensive text addressing this complex subject. Thus, *Ecological Restoration* represents an important milestone for the discipline and fills a gaping hole in the instruction of ecosystem and species restoration. What I like most about the book is its clear writing, the accessibility of information, purposeful organization, and thoughtful integration of case studies throughout the text."--William L. Hohman, *The Journal of Wildlife Management*"From the very first chapter, the case studies are carefully woven into the text to illustrate specific points or concepts and used in often demanding student exercises. This is extremely effective and keeps the theory and practice in close juxtaposition. Overall, this splendid book more than meets its stated aim of improving the outcomes of restoration practice by strengthening the connections between ecological concepts and real-world decision-making."--Bruce D. Clarkson, *Ecological Management & Restoration*

Susan M. Galatowitsch is a Distinguished Teaching Professor at the University of Minnesota, where she has taught courses in restoration ecology, landscape ecology, horticultural science, and conservation biology. She also taught restoration ecology at the University of Cape Town while a Fulbright Fellow. Dr. Galatowitsch earned a B.A. in Environmental Biology from St. Mary's College-Minnesota, an M.S. in Botany from the University of Minnesota, and a Ph.D. in Ecology and Evolutionary Biology from Iowa State University. Her research focuses on revegetation, management of invasive species, and climate change adaptation for wetland and riparian ecosystems. In addition to many research publications, she published the book *Restoring Prairie Wetlands: An Ecological Approach* (with Arnold van der Valk).

This book was the best textbook that I'd read for undergraduate and graduate students of the

environmental sciences. I liked it very much and I recommend to all students and teachers of environmental sciences.

Pictures and descriptions are easy to follow. Describes everything really well. I highly recommend this. Even if you aren't taking a class for it, buy it!

Incredible introduction to Ecological Restoration. The best parts of the book are the extensive case studies. As restoration is fundamentally an applied science it was particularly engaging to see the inner workings of projects and the effectiveness and pitfalls of certain restoration techniques.

Had a course with Dr. Galatowitsch at the University of Minnesota which followed this text closely. Extremely well written and organized. Content is accessible to non-ecologists but contains opportunities to expand into more depth throughout. Up to date and relevant to the paradigms shaping current restoration practices and mindsets. Highly recommended.

I took Susan Galatowitsch's course "Ecological Restoration" and we used this book. She is a great instructor and the book is comprehensive, thorough, and easy to reference, all while being easy to read. Instructors should use this book (as well as their students).

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