



# Sustainable Natural Resource Management: For Scientists and Engineers

By Daniel R. Lynch

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## Sustainable Natural Resource Management: For Scientists and Engineers

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Sustainable management of the natural resources that support human life and flourishing, once simply a desirable goal, is now an imperative outcome. Not only the problems we face - dwindling fisheries, shrinking water supplies - but even the proposed solutions - conversion of biomass to fuels - demand a sustainable framework within which to operate. This book introduces such a framework to those students in science and engineering who will manage natural resources professionally whether through conservation, conversion or harvesting. It is an indispensable resource for courses in a broad range of disciplines that wish to incorporate a sustainable perspective: ecology, natural resource and wildlife management, agriculture, forestry, geography, environmental engineering, and environmental economics. The book is a valuable toolkit for graduate students in professional programs in environmental science and natural resource management. The text assumes undergraduate mathematics through ordinary differential equations and some basic concepts of optimization including linear programming.

### Features

- Key Concepts of Sustainability Presented in an Analytical Framework Topics include: harvest, sustainability, effort, extraction, extinction, consumptive use, riparian rights, etc.
- Problem Sets that Apply Quantitative Tools Found at the end of each chapter, these extensive problem sets give students an opportunity to apply the tools they have learned in a variety of natural resource management contexts.
- Matlab and Excel Programs Integrated into the Text Available for download on the book's website, these programs enhance understanding and provide further tools for research and professional use.
- Supports ASCE 'Body of Knowledge for the 21st Century' recommendations: "the 21st Century Civil Engineer must demonstrate: an ability to evaluate the sustainability of engineered systems and services, and of the natural resource base on which they depend; and to design accordingly."

About the author: Daniel R. Lynch is the MacLean Professor of Engineering at the Thayer School of Engineering, Dartmouth College and Adjunct Scientist at the Woods Hole Oceanographic Institution.

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### **Editorial Review**

#### About the Author

Daniel R. Lynch is the MacLean Professor of Engineering Sciences at Dartmouth College and Adjunct Scientist at the Woods Hole Oceanographic Institution. Through the 1990s he served on the Executive Committee of the US GLOBEC Northwest Atlantic Program and co-founded the Gordon Research Conference in Coastal Ocean Modeling. He has published extensively on finite element methods in coastal oceanography and is co-editor of the AGU volume Quantitative Skill Assessment for Coastal Ocean Models and a related volume Skill Assessment for Coupled Physical-Biological Models of Marine Systems published as a special volume of the Journal of Marine Systems. In 2004 he wrote a graduate textbook titled Numerical Solution of Partial Differential Equations for Environmental Scientists and Engineers: A First Practical Course. At Dartmouth's Thayer School Dr Lynch developed the Numerical Methods Laboratory around the theme of interdisciplinary computational engineering. He pursues research at the intersection of advanced computation and large-scale environmental simulation. Current investigations focus on sustainability, natural resources, and professional education.

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