



# Environmental Land Use Planning and Management

By John Randolph PhD



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*Environmental Land Use Planning and Management* is a unique new textbook that presents a diverse, comprehensive, and coordinated approach to issues of land use planning and management and their impacts on the environment. It builds on recent advances in environmental science, engineering, and geospatial information technologies to provide students with the scientific foundation they need to understand both natural land systems and engineering approaches that can mitigate impacts of land use practices. While offering a base of knowledge in planning theory and natural science, its primary emphasis is on describing and explaining emerging approaches, methods, and techniques for environmental land use planning, design, and policy.

The book is divided into two parts. Part I, "Environmental Land Use Management," introduces broad concepts of environmental planning and describes management approaches. Those approaches include collaborative environmental management, land conservation, environmental design, government land use management, natural hazard mitigation, and ecosystem and watershed management. Part II, "Environmental Land Use Principles and Planning Analysis," focuses on land analysis methods, such as geospatial data and geographic information systems (GIS); soils and slope analysis; assessment of stormwater quantity and quality; land use and groundwater protection; ecological assessment for vegetation, wetlands, and habitats; and integrated analytical techniques like land suitability analysis, carrying capacity studies, and environmental impact assessment.

*Environmental Land Use Planning and Management* offers a unique interdisciplinary perspective with an emphasis on application. It is an important new text for advanced undergraduate and graduate courses in environmental planning, landscape architecture, geography, environmental studies, and natural resource management, and a valuable resource for professionals and others concerned with issues of environmental planning and land use.



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#### Review

"John Randolph provides a splendid, comprehensive source for the environmental aspects of land use planning. Anyone attempting to prepare a land use plan should start with this useful book."

(Frederick Steiner *Dean, School of Architecture, University of Texas at Austin*)

"*Environmental Land Use Planning and Management* is a welcome tool for defining a practice that draws on many professions.... This book will change the way we teach environmental planning."

(Bruce Stiffl *Professor of Urban Planning and Regional Planning at Florida State*)

"This is the book that environmental and water planners have been waiting for since the 1969 publication of McHarg's *Design With Nature*...Randolph has produced a comprehensive text for the modern environmental planner."

(*Journal of Planning Education and Research*)

#### About the Author

John Randolph is professor and head of the Department of Urban Affairs and Planning at Virginia Polytechnic Institute and State University in Blacksburg, Virginia.

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