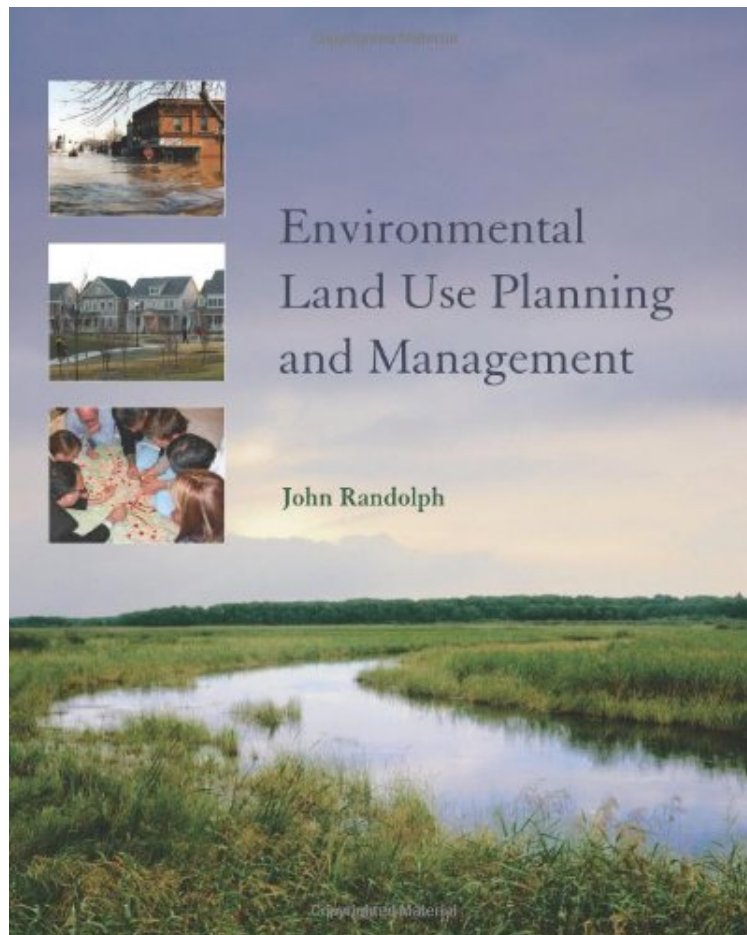


# Environmental Land Use Planning and Management

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.

"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."