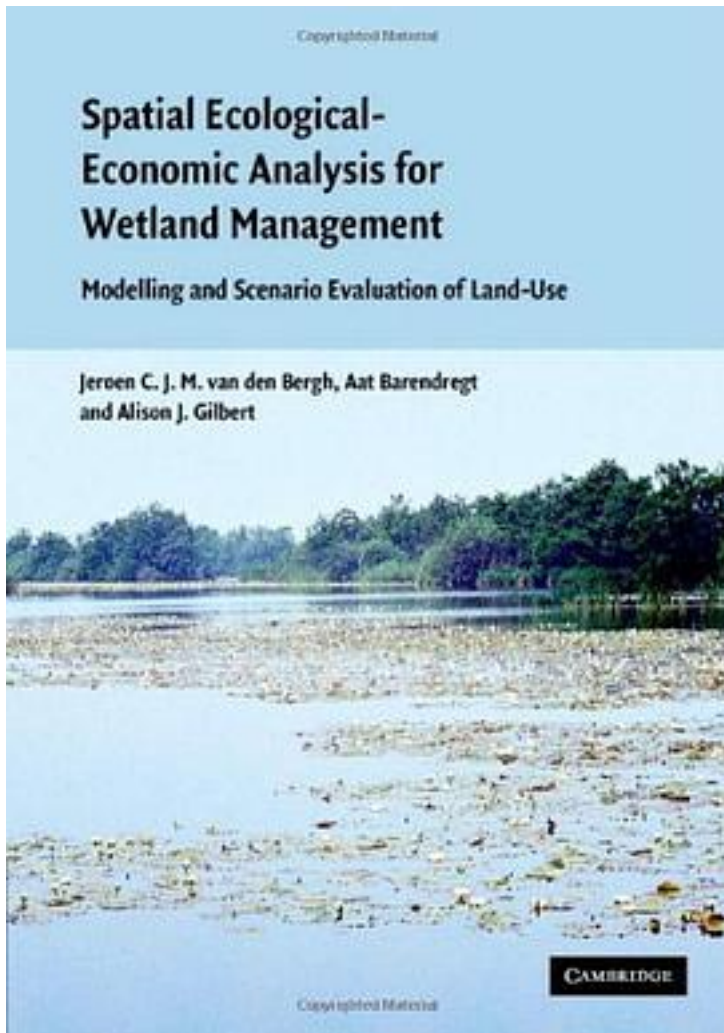


Spatial Ecological-Economic Analysis for Wetland Management



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This book was first published in 2004. Wetlands are very sensitive and valuable ecosystems that are subject to much stress from human activities. The study presented here has developed an innovative triple layer framework for analysis of wetland management. This approach provides support for spatial matching between physical planning, hydrological and ecological processes, and economic activities. The authors describe how integrated modelling at the regional scale can be achieved in practice. Following an introduction to wetlands, theoretical aspects of the contributing disciplines are discussed, as well as various aspects of integrated and spatial modelling. An applied integrated assessment of spatial wetland management for the Vecht area between Amsterdam and Utrecht is then presented. This assessment has resulted in a set of linked hydrological, ecological and economic models, formulated at the level of grids and polders, and various types of evaluations and rankings of scenarios. The results indicate the value of maintaining spatial detail for as long as possible.

作者介绍:

目录:

[Spatial Ecological-Economic Analysis for Wetland Management_ 下载链接1](#)

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