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Nota di contenuto	Contributors -- Preface -- Chapter 1: A Bird's Eye View of the Greek Water Situation: The Potential for the Implementation of the EU WFD -- Chapter 2: Introducing the Case Study, the Asopos River Basin in Greece -- Chapter 3: The Economic Characterization of Asopos River Basin -- Chapter 4: Simulating Residential Water Demand and Water Pricing Issues -- Chapter 5: An Econometric Analysis of Agricultural Production, Focusing on the Shadow Price of Groundwater: Policies Towards Socio-Economic Sustainability -- Chapter 6: A Choice Experiment for the Estimation of the Economic Value of the River

Ecosystem: Management Policies for Sustaining NATURA (2000) species and the Coastal Environment -- Chapter 7: A Value Transfer Approach for the Economic Estimation of Industrial Pollution: Policy Recommendations -- Chapter 8: A Laboratory Experiment for the Estimation of Health Risks: Policy Recommendations -- Chapter 9: An Economically Efficient, Environmentally Sustainable and Socially Equitable Decision Support System for Asopos River Basin: A Manual of Measures -- Chapter 10: Creating the Institutional Background to Support the Implementation of the Policy Manual -- Index.

Sommario/riassunto

The aim of this book is to offer a river-basin management plan which is directly implementable and consistent with the European Union - Water Framework Directive (EU WFD). The contributors, who are leading world experts in their respective fields, develop an integrated water resources management plan for the Asopos river basin in Greece which is economically efficient, socially equitable and environmentally sustainable. The program offers explicit technical and investment solutions, socioeconomic and legal instruments and recommendations for institutional restructuring. The introductory chapter describes the water situation in Greece and assesses the potential of timely implementation of the EU WFD. Special emphasis is given to the cost-recovery principle. Chapter 2 introduces the case study area highlighting the particular pressures and impacts as well as the environmental functions and values of Asopos River and Oropos Lagoon. Chapters 3 and 4 focus on the economic characterisation of Asopos River Basin in order to identify the economic sectors and social groups that will bear the cost and benefits of the implementation of the EU WFD. In particular, Chapter 3 presents the main water uses and pricing for water supply in the industrial and the agricultural sectors. Chapter 4 completes the baseline appraisal, presenting the details of water use by the residential and touristic sectors. The following chapters assess valuation and decision-making tools from a range of perspectives, including agricultural needs, valuing the impacts of industrial activity, the costs and benefits of environmental preservation and management. The water resources management plan is presented in Chapter 9; the concluding chapter offers recommendations on institutional changes and presents the lessons learned as resources applicable to other river basins in Greece and elsewhere. The book applies state-of-the art market and non-market valuation methods to estimate water demands in the residential, industrial, agricultural, tourism, environmental and health sectors and to balance these, over time and space, with water supply. Given the well-known challenge of managing natural resources in a way that maximizes and sustains social welfare, this book will provide an invaluable point of reference for applied researchers and policy makers working in water resources management.
