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-- Abstract -- Introduction -- Materials and Methods -- Results -- Discussion -- Acknowledgments -- References -- Restoration of Channelized Fluvial Systems and Their Floodplains -- Abstract -- Introduction -- Floodplain Formation -- Sediment -- Hydrology -- Floodplain Features -- Floodplain Forests -- Alterations to Fluvial Systems -- Case Study: Western Tennessee -- Restoration Guidelines -- References.
Restoration, Rehabilitation and Gardening in Mediterranean Stream Ecosystems -- Abstract -- Introduction -- Restoration, Rehabilitation and Gardening -- Water Quality and Quantity -- In-Stream Habitat -- Riparian Vegetation -- Stream Connectivity -- Exotic Species -- Scope for Future Projects -- References -- Lessons that Nature Urges People to Learn: Experience from Open Drain Research -- Abstract -- Introduction -- Materials, Site Description and Methods -- Examples of Landscape Environmental Recovery -- Considerations Concerning the Examples -- Summary -- References -- Evaluation of Biological Quality of Lotic Ecosystems in Central-Southern Italy: A Comparison of Different European Biotic Indices -- Abstract -- 1. Introduction -- 2. Materials and Methods -- 3. Discussion and Conclusions -- Acknowledgments -- References -- Index.

Sommario/riassunto

Human exploitation of stream and land ecosystems has created the need to preserve, restore and rehabilitate. This book discusses the scientific basis of restoration for ecological improvement and some key issues associated with overall projects. In addition, some of the challenges and opportunities for further research in river restoration science is explored and the associated fields of ecohydraulics and eco-hydromorphology. An analysis of the effects of river side-arm restoration on ecosystem functions is also included, as well as an experimental approach to assessing marsh restoration as compared to a strict monitoring process. The concept of combinatorial biodiversity auction is discussed in this book, showing that the combinatorial biodiversity auction can allow farmers to benefit from cost complementarities and help to maximise biodiversity outcomes within a given budget. Also included is a presentation of the need for restoration and rehabilitation projects developed according to an ecological theory considering species life history, habitat template and spatio-temporal scope, the bi-directional effect of self-renaturalisation processes on the environment and a study on how different river typologies may alter the evaluations of biological quality.