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	Altri autori (Persone)	BeechieT. J (Tim J.)
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	Nota di contenuto	Title page; Copyright page; Contents; List of Contributors; Foreword; Series Editor's Preface; Preface; 1: Introduction to Restoration: Key Steps for Designing Effective Programs and Projects; 1.1 Introduction; 1.2 What is restoration?; 1.3 Why is restoration needed?; 1.4 History of the environmental movement; 1.5 History of stream and watershed restoration; 1.6 Key steps for planning and implementing restoration; 1.7 References; 2: Watershed Processes, Human Impacts, and Process- based Restoration; 2.1 Introduction; 2.2 The hierarchical structure of watersheds and riverine ecosystems 2.3 The landscape template and biogeography2.4 Watershed-scale processes; 2.4.1 Runoff and stream flow; 2.4.2 Erosion and sediment supply; 2.4.3 Nutrients; 2.5 Reach-scale processes; 2.5.1 Riparian

	processes; 2.5.2 Fluvial processes: Stream flow and flood storage; 2.5.3 Fluvial processes: Sediment transport and storage; 2.5.4 Channel and floodplain dynamics; 2.5.5 Organic matter transport and storage; 2.5.6 Instream biological processes; 2.6.2 Common alterations to watershed processes and functions; 2.6.1 Alteration of watershed-scale processes; 2.6.2 Alteration of reach-scale processes 2.6.3 Direct manipulation of ecosystem features2.7 Process-based restoration; 2.7.1 Process-based principles for restoration; 2.7.2 Applying the principles to restoration; 2.8 Summary; 2.9 References; 3: Watershed Assessments and Identification of Restoration Needs; 3.1 Introduction; 3.2 The role of restoration goals in guiding watershed assessment; 3.2.1 Stating restoration goals; 3.2.2 Designing the watershed assessment to reflect restoration to understand the watershed template3.3.2 Assessing watershed-scale (non-point) processes; 3.3.3 Assessing reach-scale processes; 3.4 Assessing habitat alteration; 3.4.1 Habitat type and quantity; 3.4.2 Water quality; 3.5 Assessing changes in biota; 3.5.1 Single-species assessment; 3.5.2 Multi-species assessment; 3.6 Assessing potential effects of climate change; 3.7 I dentifying restoration opportunities; 3.7.4 Climate change considerations; 3.8 Case studies; 3.8.1 Skagit River, Washington State, USA; 3.8.2 River Eden, England, UK; 3.9 Summary; 3.10 References; 4: The Human Dimensions of Stream Restoration; 4.2.4 Understanding landowner/manager and agency objectives 4.2.5 Why understanding socio-political geography is important
Sommario/riassunto	With 2 billion spent annually on stream restoration worldwide, there is a pressing need for guidance in this area, but until now, there was no comprehensive text on the subject. Filling that void, this unique text covers both new and existing information following a stepwise approach on theory, planning, implementation, and evaluation methods for the restoration of stream habitats. Comprehensively illustrated with case studies from around the world, Stream and Watershed Restoration provides a systematic approach to restoration programs suitable for graduate and upper-level undergrad