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River Subjected to Variable Hu

Combining Field, Laboratory, and Three-Dimensional Numerical Modeling Approaches to Improve Our Understanding of Fish Habitat

ReConnectivity and Variability: Metrics for Riverine Floodplain

Backwater Rehabilitation; Quantitatively Evaluating Restoration

Scenarios for Rivers With Recreational Flow Releases; Section V:

Sediment Transport Issues; Sediment Source Fingerprinting (Tracing)

and Sediment Budgets as Tools in Targeting River and Watershed

Restoration Programs; Closing the Gap Between Watershed Modeling,

Sediment Budgeting, and Stream Restoration

Mitigating Channel Incision via Sediment Input and Self-Initiated

Riverbank Erosion at the Mur River, Austria Salmon as Biogeomorphic

Agents in Gravel Bed Rivers: The Effect of Fish on Sediment Mobility and

Spawning Habitat; Section VI: Structural Approaches; Restoring Habitat

Hydraulics With Constructed Riffles; Pool-Riffle Design Based on

Geomorphological Principles for Naturalizing Straight Channels;

Controlling Debris at Bridges; Seeing the Forest and the Trees: Wood in

Stream Restoration in the Colorado Front Range, United States

Geomorphic, Engineering, and Ecological Considerations When Using

Wood in River Restoration Section VII: Model Applications; Development

and Application of a Deterministic Bank Stability and Toe Erosion Model

for Stream Restoration; Bank Vegetation, Bank Strength, and

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Sommario/riassunto

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Dynamic Fluvial Systems: Scientific Approaches, Analyses, and Tools

brings together leading contributors in stream restoration science to

provide comprehensive consideration of process-based approaches,

tools, and applications of techniques useful for the implementation of

sustainable restoration strategies. Stream restoration is a catchall term

for modifications to streams and adjacent riparian zones undertaken to

improve geomorphic and/or ecologic funct