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Sinopsis

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Across much of the industrialized world, rivers that were physically transformed and ecologically ruined to facilitate industrial and agricultural development are now the focus of restoration and rehabilitation efforts. River Futures discusses the emergence of this new era of river repair and documents a comprehensive biophysical framework for river science and management.

The book considers what can be done to maximize prospects for improving river health while maintaining or enhancing the provision of ecosystem services over the next fifty to one-hundred years. It provides a holistic overview of considerations that underpin the use of science in river management, emphasizing cross-disciplinary understanding that builds on a landscape template.

The book

frames the development of integrative river science and its application to river rehabilitation programs

develops a coherent set of guiding principles with which to approach integrative river science

considers the application of cross-disciplinary thinking in river rehabilitation experiences from around the world

examines the crossover between science and management, outlining issues that must be addressed to promote healthier river futures

Case studies explore practical applications in different parts of the world, highlighting approaches to the use of integrative river science, measures of success, and steps that could be taken to improve performance in future efforts.

River Futures offers a positive, practical, and constructive focus that directly addresses the major challenge of a new era of river conservation and rehabilitation—that of bringing together the diverse and typically discipline-bound sets of knowledge and practices that are involved in repairing rivers. It is a valuable resource for anyone involved in river restoration and management, including restorationists, scientists, managers, and policymakers, as well as undergraduate and graduate students.

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Biographies

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Table Of Contents

Preface

Part I. The Emerging Process of River Repair

Chapter 1. Moves Toward an Era of River Repair

Chapter 2. Vision Generation: What Do We Seek to Achieve in River Rehabilitation?

Chapter 3. Turbulence and Train Wrecks: Using Knowledge Strategies to the Enhance Application of Integrative River Science to Effective River Management

Part II. An Integrative Scientific Perspective to Guide the Process of River Repair

Chapter 4. The Spatial Organization of River Systems

Chapter 5. Working with Change: The Importance of Evolutionary Perspectives in Framing the Trajectory of River Adjustment

Chapter 6. Ecological Function in Rivers: Insights from Crossdisciplinary Science

Chapter 7. Principles of River Condition Assessment

Chapter 8. Social and Biophysical Connectivity of River Systems

Part III. International Perspectives on the Process of River Repair Chapter 9. The Australian River Management Experience

Chapter 10. River Management in the United States

Chapter 11. Integrative River Science and Rehabilitation: European Experiences

Chapter 12. The Light and Dark of Sabo-Dammed Streams in Steepland Settings in Japan

Chapter 13. Application of Integrative Science in the Management of South African Rivers

Part IV. Managing the Process of River Repair

Chapter 14. Restoring Uncertainty: Translating Science into Management Practice

Chapter 15. River Futures

Conclusion