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Nota di contenuto	Title Page; Copyright; Dedication; Table of Contents; List of contributors; Preface; A foundation; Research development and impacts; Recognition; References and bibliography; Chapter 1: An introduction to river science: research and applications; Introduction; The development of the discipline of river science; The domain of river science; Chapters in this volume and book structure; References; Part 1: Fundamental principles of river science; Chapter 2: An ecosystem framework for river science and management; Introduction A brief history of models that have contributed to our understanding river ecosystemsUnderlying concepts for the use of frameworks in River Science; The use and abuse of an interdisciplinary approach in the research and management of riverine landscapes; Summary; References; Chapter 3: Fine sediment transport and management; Background and context; Key concepts; Tools for meeting new information needs; Management and policy; Case studies; Summary and the way forward; References

Chapter 4: Linking the past to the present: the use of palaeoenvironmental data for establishing reference conditions for the Water Framework Directive:Introduction; The fluvial landscape: floodplains, palaeochannels and connectivity; Floodplains as archives of change; Lake sediment-based archives; The evidence base for establishing reference conditions; Discussion and conclusion; Acknowledgements; References; Chapter 5: Achieving the aquatic ecosystem perspective: integrating interdisciplinary approaches to describe instream ecohydraulic processes; Introduction Empiricism, classification and the scale principleCausality principle at small and large scales; Discussion; Acknowledgements; References; Chapter 6: Measuring spatial patterns in floodplains: A step towards understanding the complexity of floodplain ecosystems; Introduction; A history of spatial pattern in floodplain research; A new approach for measuring spatial pattern in floodplains; Synopsis and future directions; Acknowledgements; References; Chapter 7: Trees, wood and river morphodynamics: results from 15 years research on the Tagliamento River, Italy; Introduction The Tagliamento RiverGrowth of riparian trees in disturbed riparian environments; Flow disturbance and vegetation cover; Vegetation and fine sediment retention; Changing the controlling factors; Acknowledgements; References; Chapter 8: The Milner and Petts () conceptual model of community structure within glacier-fed rivers: 20 years on; Introduction; Overview of the conceptual model; AASER and the validation of the original model; Further relevance of the model; Glacial Index and ARISE classification system; Summary and future directions; Acknowledgements; References Chapter 9: Remote sensing: mapping natural and managed river corridors from the micro to the network scale

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