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	Nota di contenuto	Title Page; Copyright; Table of Contents; List of contributors; Series Foreword; Advancing River Restoration and Management; Preface to the Second Edition; Section I: Background; Chapter 1: Tools in fluvial geomorphology: problem statement and recent practice; 1.1 Introduction; 1.2 Tools and fluvial geomorphology: the terms; 1.3 What is a tool in fluvial geomorphology?; 1.4 Overview and trends of tools used in the field; 1.5 Scope and organization of this book; Acknowledgements; References; Section II: The Temporal Framework: Dating and Assessing Geomorphological Trends Chapter 2: Surficial geological tools in fluvial geomorphology2.1 Introduction; 2.2 Overview of surficial geological approaches; 2.3 Applications of surficial geological approaches to geomorphic interpretation; 2.4 Summary and conclusions; References; Chapter 3: Archaeology and human artefacts; 3.1 Introduction; 3.2 General considerations in using archaeological evidence in geomorphology; 3.3 Archaeological tools; 3.4 Legacy sediment; 3.5 Using archaeological data: case studies; 3.6 Conclusions; References; Chapter 4: Using historical data in fluvial geomorphology; 4.1 Introduction

4.2 The documentary record4.3 The cartographic record; 4.4 The topographic record; 4.5 The modern historical record: remote-sensing; 4.6 Conclusion; Acknowledgements; References; Section III: The Spatial Framework: Emphasizing Spatial Structure and Nested Character of Fluvial Forms; Chapter 5: System approaches in fluvial geomorphology; 5.1 System, fluvial system, hydrosystem; 5.2 Components of the fluvial system; 5.3 Fluvial system, a conceptual tool for geomorphologists; 5.4 Examples of applications; 5.5 Conclusions; Acknowledgements; References
Chapter 6: Analysis of remotely sensed data for fluvial geomorphology and river science6.1 Introduction; 6.2 The physical basis; 6.3 River geomorphology and in-channel processes; 6.4 Floodplain geomorphology and fluvial processes; 6.5 Conclusions; Acknowledgements; References; Chapter 7: Geomorphic classification of rivers and streams; 7.1 Introduction; 7.2 Classifications for fluvial understanding; 7.3 Interactions between geomorphic classifications and ecology; 7.4 Geomorphic classification and quality of river environments; 7.5 Applying geomorphic classification schemes to fluvial systems
AcknowledgementsReferences; Chapter 8: Modelling catchment processes; 8.1 Introduction; 8.2 Approaches to catchment processes modelling; 8.3 Conceptual models; 8.4 Problem-centred interpretative models; 8.5 Data-driven empirical models; 8.6 Numerical models; 8.7 Tools for developing a catchment process model: representation and accuracy considerations; 8.8 Prospect; Acknowledgements; References; Section IV: Chemical, Physical and Biological Evidence: Dating, Emphasizing Spatial Structure and Fluvial Processes
Chapter 9: Using environmental radionuclides, mineral magnetism and sediment geochemistry for tracing and dating fine fluvial sediments

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Considerations; 3.2. Video/Audio Applications; 3.2.1. Notebooks, Tablet PC and Ultra Mobile PC (UMPC); 3.2.2. E-Book Readers; 3.2.3. Cellular Phones and Smartphones; 3.2.4. Personal Digital Assistants (PDA); 3.2.5. Mobile TV; 3.2.6. Digital Still Cameras (DSC); 3.2.7. Digital Camcorders; 3.2.8. Portable Players; 3.2.9. Portable VoIP (Voice over Internet Protocol) Phones
3.2.10. Professional Audio/Video Equipment3.3. Medical Applications; 3.3.1. Meters; 3.3.2. Therapeutic Devices; 3.3.3. Diagnostic Devices; 3.3.4. Miscellaneous Medical Devices; 3.4. Miscellaneous Applications; 3.4.1. Hobby and Professional Power Tools; 3.4.2. Portable Barcode Readers; 3.4.3. Portable Payment Terminals; 3.4.4. Handheld GPS (Global Positioning Systems); 3.4.5. Fishing Aids; 3.5. Portable Device Power Management; 3.5.1. Power Management of the Device Components; 3.5.2. Thermal Management of the Device Components; 3.5.3. Battery Management
3.6. Trends in Battery Selection for Portable DevicesChapter 4. Industrial Applications (Except Road Vehicles); 4.1. Introduction; 4.2. Meters; 4.2.1. Power Meters; 4.2.2. Gas Meters; 4.2.3. Water Meters; 4.2.4. Heat Meters; 4.2.5. Flow Meters; 4.2.6. Other Meters; 4.2.7. Meters with AMR Capability; 4.3. Data Loggers; 4.4. Sensors and Sensor Networks; 4.5. Alarms and Security Systems; 4.5.1. Portable Video Surveillance; 4.5.2. Wireless Alarms; 4.5.3. Remote Level Control; 4.5.4. Power Line Surveillance; 4.5.5. Pipeline Inspection Gauges (PIGs); 4.5.6. Access Control Systems
4.6. Automatic Assistance Systems

Sommario/riassunto

For researchers interested in devices and systems drawing power from batteries, this book will be a valuable information source. It reports on many applications in detail and presents the essentials of batteries. Links to further reading are provided through the 275 references. In chapter 1, all applications in the portable and industrial areas are introduced. Some market considerations follow with details on specific sectors. In chapter 2, basic characteristics of all primary and secondary batteries used in these applications are reviewed. The most recent trends, especially for the ub