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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; Part 1: General; 1 Nanotechnology and Water: Ethical and Regulatory Considerations; 1.1 Introduction; 1.2 Ethics and Nanotechnology; 1.2.1 What Is Ethics?; 1.2.2 What Is an Ethical Issue?; 1.2.3 Basic Principles in Ethical Decision Making; 1.2.3.1 Utility; 1.2.3.2 Fairness; 1.2.3.3 Justice; 1.2.3.4 Proper Human Excellences; 1.2.3.5 Beneficence; 1.2.4 Significance of Nanotechnology in the Water Sector; 1.2.5 Benefits of Nanotechnology; 1.2.6 Ethical Issues and Concerns Related to Application of Nanotechnology in the Water Sector 1.2.6.1 Issues of Safety, Toxicity and Environmental Impact 1.2.6.2 Distributive Justice Issues; 1.2.6.3 Intellectual Property Rights Issues; 1.2.6.4 Public Involvement and Consumer Awareness; 1.3 Legal and Regulatory Issues and Concerns Related to the Application of Nanotechnology in the Water Sector; 1.3.1 The EC's Code of Conduct for Responsible Nanoscience and Nanotechnology Research and Other Initiatives; 1.3.2 The Precautionary Principle; 1.4 Nanotechnology, Water and Human Health Research; 1.5 Conclusion; References 2 Nanoparticles Released into Water Systems from Nanoproducts and

Structural Nanocomposites Applications
2.1 Introduction; 2.2 Case Study on Polyurethane/Organically-Modified Montmorillonite (PU/OMMT) Nanofoam Nanoparticles in Water Suspension; 2.3 Methodology; 2.3.1 Material Synthesis of Nanophased Composites; 2.3.2 Drop-Weight Impact Test and Fracture Particle Extraction; 2.3.3 Characterization; 2.3.3.1 Scanning Electron Microscopy (SEM); 2.3.3.2 Transmission Electron Microscopy (TEM); 2.3.3.3 X-ray Diffraction; 2.3.3.4 Dynamic Light Scattering (DLS); 2.4 Results and Discussion
2.4.1 Synthesized Nanocomposites
2.4.2 Generated Nanocomposite Dust from Impact Test; 2.4.2.1 Morphology Studies; 2.4.2.2 Size Effect; 2.5 Conclusion; Acknowledgement; References; Part 2: Remediation; 3 Prospects for Immobilization of Microbial Sorbents on Carbon Nanotubes for Biosorption: Bioremediation of Heavy Metals Polluted Water; 3.1 Dispersion of Metal Pollutants in Water Sources; 3.2 Removal of Metal by Conventional Methods; 3.3 Microbial Sorbents for Removal of Toxic Heavy Metals from Water; 3.3.1 Biouptake of Metal; 3.3.2 Factors Affecting Microbial Adsorption Capacity
3.3.2.1 Cell Age
3.3.2.2 Physicochemical Effect; 3.3.2.3 Cell Biomass; 3.3.2.4 Initial Concentration of Metal; 3.3.2.5 Metals Competition; 3.3.2.6 Exposure Time; 3.3.3 Isothermic and Kinetic Equilibrium of Biosorption; 3.3.4 Drawbacks Due to Inhibition; 3.3.5 Metal Tolerance Mechanisms of Microbial Sorbents; 3.3.6 Pretreatment of Microbial Sorbent; 3.4 Immobilization of Microbial Sorbents on CNTs; 3.4.1 Possible Interaction between Microorganisms and CNTs; 3.4.1.1 Microbial Cell Membranes and Functional Groups; 3.4.1.2 Characteristics of CNTs
3.4.2 Adsorption of Microorganisms on CNTs for Bioremediation

Sommario/riassunto

At the nano size materials often take on unique and sometimes unexpected properties which results in materials being 'tuned' to build faster, lighter, stronger and more efficient devices and systems, as well as new classes of materials. In the water research, nanotechnology is applied to develop more cost-effective and high-performance water treatment systems as well as instant and continuous ways to monitor water quality as well. Nanotechnology in water applications potentially impacts on treatment, remediation, sensing, and pollution prevention. Nanotechnology for water treatment an

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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	1. Creative Economies: Drivers, Challenges, Urban and Rural Divide -- 2. Cultural Consumption: Implications for Peripheral Regions -- 3. The Uniqueness of Peripheral Creative Economies -- 4. Policy Considerations, Creative Firms Business Models and Future Research. .
Sommario/riassunto	This book discusses the rise of the creative economy. Organisations like UNCTAD have observed the emergence of the creative economy across the globe and noted its resilience in the face of recent economic turmoil. Here, the authors intend to bring the level of analysis down to the regional and firm level by uncovering the extent of the creative economy in some of Europe's most peripheral regions. This is the first study to draw on international research carried out across four EU member states to add to the neglected area of the creative economy of peripheral regions. Chapters discuss the drivers and challenges of creative economies, the implications of cultural consumption on

peripheral regions, the uniqueness of peripheral creative economies and policy considerations arising from the creative economy. The work contributes to expanding theory in the areas of economic geography, business studies and regional development.
