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Nota di contenuto	Chapter 1 Sources and Health Risks of Rare Earth Elements in Waters -- Chapter 2 Removal of Heavy Metal Pollutants from Wastewater Using Zerovalent Iron Nanoparticles -- Chapter 3 Water Treatment Chemicals for Pollution Minimization and Management -- Chapter 4 Advanced Treatment of Real Wastewater Effluents by Electrochemistry -- Chapter 5 Unconventional Adsorbents for Remediation of Metal Pollution in Waters -- Chapter 6 Desalination Technology for Water Security -- Chapter 7 Nanotechnology for the Remediation of Heavy Metals and Metalloids in Contaminated Water -- Chapter 8 Hybrid Treatment Technologies for the Treatment of Industrial Wastewater -- Chapter 9 Removal of Heavy Metals in Biofiltration Systems -- Chapter 10 Contamination and Health Impact of Heavy Metals -- Chapter 11 Tin-Based Compounds for Water Remediation -- Chapter 12 Methods for Treatment of Wastewater from Cu Production -- Chapter 13 Heavy Metal Removal from Wastewater Using Adsorbents -- Chapter 14 Electroanalytical Techniques for the Remediation of Heavy Metals from Wastewater -- Chapter 15 Mechanisms and Approaches for the Removal of Heavy Metals from Acid Mine Drainage and Other Industrial Effluents -- Chapter 16 Removal of Dyes and Heavy Metals with Clays and Diatomite.
Sommario/riassunto	Pollution of waters by toxic metals is accelerating worldwide due to industrial and population growth, notably in countries having poor

environmental laws, resulting in many diseases such as cancer. Classical remediation techniques are limited. This books reviews new, advanced or improved techniques for metal removal, such as hybrid treatments, nanotechnologies and unconventional adsorbents, e.g. metal-organic frameworks. Contaminants include rare earth elements, arsenic, lead, cadmium, chromium, copper and effluents from the electronic, textile, agricultural and pharmaceutical industries.
