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Nota di contenuto	Chapter 1. Ion homeostasis and its role in salt remediation by halophytes -- Chapter 2. Role of Transporters in Accumulating Salt Ions by Halophytes -- Chapter 3. Dual Role of Nitrogen: Essential Plant Mineral Element and Source of Inorganic Pollution -- Chapter 4. Synthesis and regulation of secondary metabolites in plants in conferring tolerance to toxic metals and inorganic pollutants -- Chapter 5. Bicarbonate toxicity and elevated pH in plants: Metabolism, regulation and tolerance -- Chapter 6. Antioxidant defense systems and remediation of metal toxicity in plants -- Chapter 7. Current Research on the Role of Plant Primary and Secondary Metabolites in Response to Cadmium Stress -- Chapter 8. The current scenario and prospects of immobilization remediation technique for the management of heavy metals contaminated soils -- Chapter 9. Inhibition of donor and acceptor side of Photosystem II by cadmium ions -- Chapter 10. Physiological and Molecular Mechanism of Metalloid Tolerance in Plants -- Chapter 11. Heavy metals-induced morphophysiological and biochemical changes in <i>Mentha piperita</i> L. -- Chapter 12. Heavy Metals-induced Physiological and Biochemical changes in Fenugreek (<i>Trigonella foenum-graceum</i> L.) -- Chapter 13. Copper-induced responses in different plant species -- Chapter 14. Concept and types of phytoremediation -- Chapter 15. Bioremediation of Heavy Metals Using the Symbiosis Between Leguminous Plants and Genetically Engineered Rhizobia -- Chapter 16. Metallothionein- and

Phytochelatin-assisted mechanism of heavy metal detoxification in microalgae -- Chapter 17. Efficacy of Duckweeds for phytoremediation: Morpho-physiological and biochemical alterations -- Chapter 18. Metals Phytoextraction by Brassica species -- Chapter 19. Molecular Basis of Plant-Microbes Interaction in Remediating Metals and Inorganic Pollutants.

Sommario/riassunto

In this comprehensive book, plant biologists and environmental scientists present the latest information on different approaches to the remediation of inorganic pollutants. Highlighting remediation techniques for a broad range of pollutants, the book offers a timely compilation to help readers understand injury and tolerance mechanisms, and the subsequent improvements that can be achieved by plant-based remediation. Gathering contributions by respected experts in the field, the book represents a valuable asset for students and researchers, particularly plant physiologists, environmental scientists, biotechnologists, botanists, soil chemists and agronomists. .
