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Nota di contenuto	Risk Assessment from Primary Mining of Precious Metal (Gold) and Possible Mitigation Route -- Assessment and Mitigation of Environmental Footprints for Energy-Critical Metals Used in Permanent Magnets -- Assessing End-of-Life Room Air Conditioner Recycling Potential for Sustainable Resource Utilization in India- A Case Study for Reducing Environmental Burden -- Environmental Impacts and Government Policies for Responsible Management of E-waste -- Hazards associated with industrial effluents and its mitigation strategies -- Accumulation of heavy metals in roadside plants and their

role in phytoremediation -- Sustainable Utilization of Anthropogenic Coal Fly Ash Through Mechanical and Chemical Activation -- Environmental damages due to mismanagement of municipal solid waste -- A Detailed Review on the Environmental Problem and Remediation of Anthropogenic Biomass Waste -- Sustainable Management of Municipal Solid Waste: Associated Challenges and Mitigation of Environmental Risks -- Collaborative Governance and Non-Monetary Compensation Mechanisms for Sustainable Forest Management and Forest Fire Mitigation.

Sommario/riassunto

This book delves into the anthropogenic activities responsible for environmental hazards, their compensation, and potential mitigation strategies. It sheds light on the major contributors to the climate change issues aggravated by non-sustainable practices for the overexploitation of natural resources. Critical topics such as high emissions in primary mining, the recovery of energy-critical metals by urban mining, solid waste management, and forest conservation are explored, offering insights into the urgent challenges we face. Amidst the rapid demand for resources and the expansion of human habitats, the book emphasizes the need for new approaches to natural resource management and introspection of our actions. Experts in the field discuss existing anthropogenic environmental hazards in detail, alongside environmental compensation, and effective mitigation approaches. The book begins with a chapter dedicated to risk assessment in primary mining activities for precious metals, proposing potential routes for mitigation. Chapter 2 focuses on assessing and mitigating the environmental footprints of energy-critical metals used in permanent magnets. In Chapter 3, a case study examines sustainable resource utilization through end-of-life room air conditioner recycling. Additional chapters provide critical insights into: The environmental impacts of e-waste and government policies for responsible management Hazards associated with industrial effluents and corresponding mitigation strategies The role of roadside plants in phytoremediation of heavy metal pollution Sustainable utilization of anthropogenic coal fly ash through mechanical and chemical activation Environmental damages resulting from the mismanagement of municipal solid waste Environmental problems and remediation strategies for anthropogenic biomass waste Challenges in sustainable municipal solid waste management and suggestions for environmental risk mitigation The book concludes with a chapter discussing collaborative governance and non-monetary compensation mechanisms for sustainable forest management. Given its breadth, this book serves as an indispensable resource for researchers, policymakers, and environmental professionals seeking sustainable approaches to tackle pressing environmental challenges.