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| Descrizione fisica      | 1 online resource (408 pages)  |
| Altri autori (Persone)  | Rashmil<br>AliShakir<br>KalaS<br>KumarAshok<br>MadhuM  |
| Disciplina              | 577  |
| Soggetti                | Biotic communities<br>Landscape ecology<br>Ecology<br>Ecosystems<br>Landscape Ecology<br>Terrestrial Ecology   |
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| Nota di contenuto       | Chapter 1. Stone mining industry: Overview and applications of stones -- Chapter 2. Effect of stone mining on land degradation and rehabilitation measures -- Chapter 3. Stone Mining Industry: Assessing the Socio-economic Importance and Livelihood Security for Economic Development -- Chapter 4. Application of Remote Sensing and GIS for Monitoring Mine Spoil Areas: A Case Study of Kota Stone Mines -- Chapter 5. Stone Quarrying: Impact on groundwater and suitable mitigation measures -- Chapter 6. Impact of stone mining on soil properties -- Chapter 7. Impact of Stone Mining on the Agriculture Sectors and Suggestive Rehabilitation Measures -- Chapter 8. Effects of stone mining activities on air quality and corrective measures -- |

Chapter 9. Impact of Stone Mining on Surface Water Quality -- Chapter 10. Characterization of Phytodiversity and Prioritization of Viable Tree Species for Rehabilitation of Stone Mine Spoil Area in Rajasthan (India) -- Chapter 11. Impact of Stone Mining on Vegetation and Biodiversity and its Restoration Approaches -- Chapter 12. Impact of stone mining on community/public health and safety measures -- Chapter 13. Next-Generation Approaches for Progressive Rehabilitation of Mine Spoil Dumped Sites through Agroforestry Techniques -- Chapter 14. Impact of post-mining restoration techniques on soil health -- Chapter 15. Bio-engineering Measures as Tools for Sustainable Restoration of Stone Mine Spoil Ecosystem -- Chapter 16. Stone mine waste management for sustainable environmental protection (Recycling and reusing stone slurry waste product) -- Chapter 17. Policy implications and opportunities for overcoming challenges in Mining Activities -- Chapter 18. Economics of the remediation techniques for the stone mine spoil sites.

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#### Sommario/riassunto

This edited book covers the impact of stone mining activities on soil, water, air, agriculture, vegetation, and policy aspects. It provides information on rehabilitation and restoration measures for stone mine spoil areas and other associated adverse impacts on human health caused by mining activities. Additionally, the book covers information related to the impact of stone mining on the socio-economic conditions of mining area inhabitants and appropriate government policies and support to meet the United Nations Sustainable Development Goals-15.3 (SDG-15.3) for degraded stone mine spoil sites toward Land Degradation Neutrality (LDN). The dumping of stone mine waste has many negative implications for the environment, soil, and natural resources. Although stone mining is the main source of livelihood for millions of people around the world and plays a crucial role in the economic development of many countries, it was estimated that nearly 4 million people die every year, especially in developing countries, due to environmental pollution from quarrying, sandblasting, and the emission of toxic gases. Mining leads to land degradation by the stacking of mine waste, loss of fertile topsoil and vegetation covers, abstraction and deterioration of the natural drainage system, deforestation, groundwater depletion, loss of plant and aquatic biodiversity, and public health issues. The book covers information about all aspects of dimensional stone mining activity and is a useful read for researchers, planners, capacity builders, scientists, and policymakers for achieving SDG 15.3. It would also be helpful for undergraduate and graduate students of agriculture, forestry, ecology, soil science, and environmental science disciplines.

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