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Nota di contenuto	Seepage analysis of soil nail reinforced embankment resting on soft soil -- Application Of Waste Plastic in Alluvial Soil Stabilisation for A Sustainable Pavement Construction -- Innovative Approaches to Soil Slope Design with Soil Nailing Technology -- An Evaluation of The Compaction Characteristics of a South African Silty Sand Improved by Waste Plastic Fibres -- Influence of Vertical Vibration on Geogrid Reinforced Soil -- Stability Of Mine Overburden Dump Slope Considering Vegetation Impact -- Assessment of Fly Ash Impact on Soil Water Retention, using an Arduino-Based monitoring system -- Seismic Analysis of Power Transmission Tower-Line System -- Evaluating Stone Dust as a Sustainable Alternative to Sand in Concrete -- Experimental Investigation and Comparative Analysis of Properties of Recycled Aggregate Concrete Considering Different Mixing Approaches -- Properties of Concrete Utilizing Recycled Concrete Fine Powder and

Treated Recycled Concrete Aggregate: An Experimental Investigation -- Experimental Investigation on Mechanical Properties of Concrete Containing Treated Coarse Aggregates obtained from Hard Rock of Open Coal Mine Dump -- Performance measurement of a landfill mining equipment: A case study -- Spatio-Temporal Analysis of Urban Climate Using LST, NDVI, FISA, and LULC: A 20-Year Case Study of Jaipur, Rajasthan, India (2004-2024) -- Physico-Chemical Assessment of Water Quality in the Open Cast Coal Mining Region of Bhurkunda, Ramgarh, Jharkhand, India -- Comprehensive Assessment and Prediction of Air Quality Trends Using Arima Model -- Sustainable Municipal Solid Waste Management: Addressing Generation, Composition, And Environmental Concerns -- Optimum Replacement of Coarse Aggregates with E-Waste Ceramics for a Rigid Pavement -- Quantitative lifecycle sustainability assessment of asphalt pavement -- Design of circular overhead water tank using staad.pro Software.

Sommario/riassunto

This book presents select proceedings of the International Conference on Research and Innovation for Sustainability in Civil Engineering – RISCE 2024. It highlights recent advances in civil engineering with a strong emphasis on sustainable and cost-effective practices. The contributions address key challenges related to environmental concerns such as climate change and global warming. Covered topics include green building design, innovative and sustainable construction materials, efficient resource and project management, eco-friendly transportation systems, water resources management, and the development of resilient and smart infrastructure. This volume serves as a valuable reference for researchers, professionals, and decision-makers engaged in promoting sustainability in civil engineering.
