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Nota di contenuto	Optimization of Electric Vehicle Charging Stations in Srinagar by Spatiotemporal Modelling -- Optimized Corrosion Resistance in Reinforced Concrete Using Eco-Friendly Coatings Derived from Hibiscus rosa-sinensis and Azadirachta indica -- Performance assessment of moisture damage of hot mix asphalt using admixtures -- Experimental investigation on the structural behaviour of frc beam with partial replacement of geogrid in stirrups -- Experimental Investigation on Impact of Scalability Effect on Foam Concrete Production -- Monitoring and Controlling Construction Project through Earned Value Management and Identification of Risk Factors Responsible for Time and Cost Overrun: A Case Study for Rail Gauge Conversion Project in India -- Challenges Of Tunnelling In Mixed Geological Condition -- Durability Properties of Ambient Cured Geopolymer Concrete with Copper Slag as Partial Replacement of Fine Aggregate -- Experimental studies on the mechanical characteristics of high strength concrete exposed to raised temperatures -- Integrated Assessment of Rainfall

Trends and the Effects of Urbanization in the Amaravati River Basin -- Land Use/ Land Cover Changes of Kannur District, Kerala from 1969 to 2024: A Geospatial Investigation -- Behaviour of Geopolymer Concrete with Rice Husk Ash – A Review -- Unveiling the power of nature: a review of nature-based solutions for groundwater management and consumption -- Extracting aquaculture ponds from natural water surfaces around inland lakes through GEE datasets: A case-study of River Krishna delta in South India -- Detachable Food Storage Tank -- Flood Inundation Mapping by Multi-Criteria Decision Analysis -A Study on Recent Floods- Idukki District, Kerala-India.

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#### Sommario/riassunto

This book presents select proceedings of the International Conference on Advances in Materials, Modeling, and Analysis for Sustainable and Resilient Infrastructure (AMMA SRI-25), held from January 9th to 11th at Coimbatore, Tamil Nadu, India. It addresses the challenges of sustainability and resilience through innovative and region-specific solutions, bringing together experts to share ideas, highlight best practices, and create lasting professional contacts. Key topics include sustainable construction materials and practices, advanced modeling techniques for resilient infrastructure, structural health monitoring, and climate change. Innovative methods for enhancing the durability and energy efficiency of buildings are also discussed. This book explores the impact of sustainable practices on geomechanics and modeling, sustainable geotechnique, traffic modeling, sustainable pavement materials and design, intelligent transportation systems, sustainable water and wastewater treatment, disaster management, and geospatial applications. This book serves as a comprehensive reference for anyone interested in the latest advancements in materials, modeling, and analysis for sustainable and resilient infrastructure. It offers valuable insights for researchers, students, and professionals dedicated to advancing this field.

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