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Nota di contenuto	Intelligent Monitoring and Vision Based Vibration Measurement on Bridges -- Applications of Structural Reliability Methods in Deformation and Buckling Analysis of Structures -- Assessment and Retrofitting of Historical Over-Capping Timber Structure -- Machine Vision Approach of Bridges Crack Identification Based on the Fusion of UAV Vision and LiDAR -- Theoretical Analysis of Grout Sleeve Defect Detection Based on Non-destructive Resistance Method -- Structural Member Strength Prediction using Backpropagation Neural Network: A Tool for Retrofitting Intervention Integrating Non-linear Static Analysis -- Intelligence Approach for Road Crack Detection Based on Real-world Measurement -- Research on Temperature and Humidity Cracks in Early Age of Track Slab of Double-block Ballastless Track Structure -- Soil-structure Interaction, a Case Study of a Building in Cochabamba, Bolivia -- Seepage Characteristics and Water Surge Prediction in New Tunnels under the Condition of Existing Tunnels in Karst Troughs and Valleys Area -- Generation of Simplified Models by An Adaptive Finite-Unit Method for Simulating Square Foundations in Layered Half-space

Undergoing Vibrations -- Study on Moisture Transfer Rule in Loess Slope Subject to Variable Seismic Acceleration -- Prediction of Water Influx in Operating Tunnels in Karst Valley Area.

Sommario/riassunto

This book collects the scientific proceedings presented during the “2024 The 4th International Civil Engineering and Architecture Conference” held in Seoul, South Korea, in March 2024 with the aim of showing the latest advancements in theoretical and applied research in the architecture, engineering, and construction sector (AEC). The book is organized into four main parts, namely (1) sustainable urban planning and architecture; (2) architectural and environmental design; (3) built environment materials and construction technology; and (4) civil engineering and construction management. The goal of the book is to provide readers with an overview of the ongoing transformation of the AEC industry presenting a thorough investigation of the emerging trends in the fields of green building design, construction, and operation.
