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Nota di contenuto	Some Research Results on Bridge Health Monitoring, Maintenance and Safety III; Preface; Table of Contents; Cracking Control for Diaphragm of Long-Span Prestressed Concrete Box Girder Bridge at the Early Age; Rapid Assessment Method of Girder Bridge Carrying Capacity Based on Traffic Running Test; Prospect Analysis of the Application of BFRP Bar to Bridges; Parameter Analysis of Vehicle-Bridge Coupling of Half through CFST Arch Bridge due to Vehicle; Design on Dynamic Performance of Highway Bridges to Moving Vehicular Loads Dynamic and Mitigation Analysis of Seismic Pounding Effect on Multi-Span Highway Bridges Subjected to Spatial Earthquakes Modified Damage Assessment and Repair Design for Underpass Bridge Based on Fire Effect; Reliability Prediction of Bridges Based on Monitored Data and Bayesian Dynamic Models; Investigation of the Optimal Construction of the One-Cave Tunnel with Double-Arch Section; Reliability Analysis of Two-Dimensional Series Portal-Framed Bridge System Based on Mixed Copula Functions; Review of the Application of Finite Element Model Updating to Civil Structures

ANSYS-Based Spatial Coupled Vibration Analysis Method of Vehicle-Bridge Interaction SystemProblems and Suggestions of Chinese Highway Bridge Seismic Design; Development and Challenge of the Vehicle and Highway Bridges Dynamic Interaction; A Practical Method for the Construction of the Supporting System of Covered Excavation of Metro Station; Safety Assessment of Slant Legged Rigid Frame Bridge Based on Field Testing; The Ratio Optimization of Side to Main Span in Low-Pylon Cable-Stayed Bridge Based on Yudao River Bridge Performance Evaluation of a Damaged Bridge by Using the Method Based on Dynamical CharacteristicDevelopment and some Key Issues of Modal Parameter Identification in Bridges; Keywords Index; Authors Index

Sommario/riassunto

The amount of deteriorating bridges is increasing gradually, and the costs of maintenance, repair and rehabilitation of these bridges often far exceed available budgets. To alleviate this issue, the bridge engineering profession continues to take positive steps towards developing more comprehensive bridge monitoring and management systems. This collection of invited papers encompasses some aspects of bridge health monitoring, maintenance and safety. Specifically, it deals with: bridge health monitoring; bridge repair and rehabilitation issues; bridge related safety and other implications. Edit