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| Nota di contenuto | ""Cover""; ""Contents""; ""Resilience and Smart Structures""; ""A Stochastic Finite Element Approach to Determine the Safety of Suspension Bridge Cables""; ""Cyberinfrastructure Middleware and Analytical Tool Sets for Automated Mining of Massive Structural Health Monitoring Data Sets""; ""Spatiotemporal Dimensions of Network Density-Based Clustering for Water Pipe Maintenance""; ""Interpreting the Dynamics of Embankment Dams through a Time-Series Analysis of Piezometer Data Using a Non-Parametric Spectral Estimation Method"" ""A Novel Data Utilization and Control Strategy for Wireless Structural Control Systems with TDMA Network""""An Iterative Convex Optimization Procedure for Structural System Identification""; ""Algorithmic and Computing Technologies for Health Assessment of Real Structures in the Presence of Nonlinearity and Uncertainty""; ""Computational Modeling of Glass Panels for Mitigating Injuries Due to Air Blast""; ""Computationally Efficient Control Design for a Smart |

Structure with Uncertainty"

"Optimal Semiactive Control of Elevated Highway Bridges: An Upper Bound on Performance via a Dynamic Programming Approach"

Control for Multiple Objectives in Different Magnitude Excitations";

"Improving Substructure Identification Using Structural Control with Limited Sensor Measurements";

"Sensor Network for Pavement Performance Monitoring";

"Modeling of Nonlinear Guided Waves and Applications to Structural Health Monitoring";

"Multivariate Analysis and Prediction of Wind Turbine Response to Varying Wind Field Characteristics Based on Machine Learning"

"Novel Sparse Bayesian Learning for Structural Health Monitoring Using Incomplete Modal Data"

"Condition Assessment of Stay Cables Based on Laboratory Tests and Structural Health Monitoring";

"Sustainability and Environment";

"Systems Modeling Approach for Sustainable Infrastructure";

"Information Exchange Requirements for Energy Audits in the Commercial Building Retrofit Sector";

"Link Criticality Based on Most Probable Network States for Pre-Disaster Investment";

"Demand Response in Buildings: Engaging Thermostatically Controlled Loads in the Power Grid"

"A Numerical DAE Approach for Solving a System Dynamics Problem"

Using a Life Cycle Assessment Approach for Optimizing Multi-Objectives in Construction Projects";

"An Expert System Based on OpenStudio Platform for Evaluation of Daylighting System Design";

"Providing Systems Engineering Perspective in a Capstone Project Setting to Monitor Performance of HVAC Systems";

"Epistemic Modeling for Sustainability Knowledge Management in Construction";

"Lessons Learned from Developing Immersive Virtual Mock-Ups to Support Energy-Efficient Retrofit Decision Making"

"Personalized Thermal Comfort-Driven Control in HVAC-Operated Office Buildings"

