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Nota di contenuto	Advanced Construction Technologies; Preface and Conference Organization; Table of Contents; Chapter 1: Structural Engineering; A Nonlinear Model for Beam-Column Joint Based on OpenSees; A Study on the Effect of a Dyke Reinforced by Geotextile-Encased Sand Columns; Analysis of a Transmission Tower Structure with Dynamic Elastic-Plastic Time History Method; Analysis of Composite Beam with Different Web Openings; Analysis of Reconstruction and Reinforcement Design for a Thermal Power Plant Boiler Frame Axial Strains in FRP-Confined Normal- and High-Strength Concrete: An Examination of Strain Measurement MethodsComparison of Stress-Strain Relationships of FRP and Actively Confined High-Strength Concrete: Experimental Observations; Construction Control of a Continuous Beam Arch Composite Bridge; Construction Technique of Cast In Situ RC Grillage Shear Wall Building Formed with Thermal Insulation Hollow Blocks; Damage Identification Based on Power Spectral Density Sensitivity Analysis of Structural Responses; Damage Location Identification of Truss Structure Based on Strain Modal Method Design Analysis of Steel Frame for Denitrification through Existing StructureDesign and Numerical Simulation on Concrete Two-Way Slab

Strengthened with Partially Bonded Steel Plate; Discussion on the Rationality Simplified Calculation Method of Reinforced Concrete Two-Way Slab; Displacement Control Technology on High-Rise Steel Structure about Main Power House of Thermal Power Plant; Dynamic Analysis of Tapered Plates Based on Higher Order Beam Theory; Effect of Loading Pattern on Performance of FRP-HSC-Steel Double Skin Tubular Columns
Evaluation of Snow Load Using a Wind Tunnel on the Arched HouseEvaluation of the Fire Resistance of H-Section Made of High Strength Structural Steels with a Difference of Length; Experiment Design of the Scale Model of the RC Frame Structure under Internal Blast Loading; Experimental Study of Reinforcement Effect of Injured Frame Joints under Different Axial Compression Ratio; Experimental Study of Strengthening of Reinforced Concrete Beams with Externally Bonded GFRP Sheets; Experimental Study on Early-Age Crack of RC Using TSTM; Experimental Study on Glued Bamboo Beam
Experimental Study on the Flexural Behavior of Stone Slabs with near Surface Mounted Steel BarFailure Analysis of Reinforced Concrete Beams Subjected to Explosion and Post-Explosion Fire; Finite Element Software for Optimization of Triangular Light Roof Truss Structure of Gymnasium; Geometric Nonlinear Shallow Shells for Variable Thickness Investigation; Interfacial Slip Calculation of RC Beams Strengthened with FRP Plate under Mid-Span Concentrated Loads; Isolation Performance Analysis of Concrete-Filled Steel Tubular Composite Structure Based on the Lead Rubber Bearing
Lifting Point Optimization of Large Steel Truss on the Principle of Minimum Potential Energy

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 International Conference on Structures and Building Materials (ICSBM 2014), March 15-16, 2014, Guangzhou, China. The 431 papers are grouped as follows: Chapter 1: Structural Engineering, Chapter 2: Monitoring and Control of Structures, Chapter 3: Structural Rehabilitation, Retrofitting and Strengthening, Chapter 4: Reliability and Durability of Structures, Chapter 5: Disaster Prevention and Mitigation, Chapter 6: Bridge Engineering, Chapter 7: Geotechnical and Geological Engineering, Chapter 8: Tunnel, Subway and Underground Facilities