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Experimental Study on Workability and Strength of Green High Performance Concrete with High Volume Fly Ash Experimental Study on Mechanical Properties of Steel Fiber Reinforced High Performance Concrete; Calculation Methods of CFRP Tendons Stress in Two-Span Prestressed Continuous Beams; Research on the Wear Resistance of High-Chromium White Cast Iron and Multi-Component White Cast Iron; Research on the Shear Strength of High-Strength Concrete Beams with Web Bars by Concentrated Load; Numerical Solution of Vehicle-Bridge Coupling Vibration
Research on Shaking Force with Ground-Roll Suppression Based on Fast Discrete Curvelet Transform Chapter 2: Construction, Civil, Building Engineering and Geology Science; The Study on Used Properties of Mine Tailings Sand; Finite Element Analysis of the Subsidence of Cap Rocks during Underground Coal Gasification Process; Seismic Performance of Reinforced Concrete Rectangular Hollow Bridge Piers; Optimal Design of Double Sheet Piles in Deep Foundation Pit Based on UD-SVM; FE Modeling of Elliptical Concrete-Filled Steel Tubular Members Subjected to Pure Bending
Interface Structure of EPS and Pores Effect on Properties of EPS Lightweight Concrete Measured Data Processing in Civil Structure Using the DOProC Method; Research on Tensile Bearing Capacity of Self-Drilling Screw Joints for Thick Faced Roof Sandwich Panels; Study on the Static and Dynamic Load Test of Skew Bridge; Research on Monitoring and Control for Suspender Cable Tension of Half-Through Concrete Filled Steel Tube Arch Bridge; Study on the Load Test of Variable Cross-Section Box Girder Bridge; Acoustic Detection on Analysis of Rock Mass Integrality
The Mechanical Mechanism Analysis for Mortar Arch Framework Slope Protection Structure

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Civil Engineering and Material Engineering (CEME 2013), December 21-22, 2013, Wuhan, China. The 125 papers are grouped as follows: Chapter 1: Materials and Mechanical Engineering, Applied Mechanics; Chapter 2: Construction, Civil, Building Engineering and Geology Science; Chapter 3: Chemistry and Environmental Technologies; Chapter 4: Applied Technology and Information System