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Titolo	Advanced research on civil engineering, materials engineering and applied technology : selected, peer reviewed papers from the 2013 2nd International Conference on Civil Engineering and Material Engineering (CEME 2013), December 21-22, 2013, Wuhan, China // edited by Helen Zhang, David Jin and X. J. Zhao
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Altri autori (Persone)	ZhangHelen JinDavid ZhaoX. J
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advanced Research on Civil Engineering, Materials Engineering and Applied Technology; Preface, Committee and Sponsors; Table of Contents; Chapter 1: Materials and Mechanical Engineering, Applied Mechanics; Experimental Study on the Solidification of MSWI Fly Ash; Analyses of Nugget and Expulsion Formation Process during Resistance Spot Welding between Aluminum Alloy and Steel; Research and Development of High Grade Gear Steel SCM420H for Automobile; Study on Hydraulic Characteristics of Opposite Folded Plate Reactor Reconstruction of Key Parameters of Marine Supercharged Boiler Based on PLS-SVM Research on Optimization Method of Extreme Learning Machine with Application of Information Technology; Numerical Study of Vertical Axis Wind Turbine Rotor Configuration; Parameter Analysis and Shaking Table Test Based on Mechanics Analysis in Seismic Isolation System of Transformer with Bushings; Seismic Displacement Design Method Comparison between Chinese, American, European and Japanese Seismic Design Codes; Computational Fluid Dynamics Simulation Optimization Research Based on Hydraulic Torque Converter

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 Integrity
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
