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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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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 859
Altri autori (Persone)	ZhangHelen JinDavid ZhaoX. J
Disciplina	624
Soggetti	Civil engineering Electronic books.
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
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
