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Titolo	Advanced research in civil engineering, materials, machinery and applied technologies : selected, peer reviewed papers from the 2014 3rd International Conference on Civil Engineering and Material Engineering (CEME 2014), December 27-28, 2014, Changsha, China // edited by M. Han and X.S. Tai
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Collana	Applied mechanics and materials ; ; volume 730
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Advanced Research in Civil Engineering, Materials, Machinery and Applied Technologies; Preface, Committee and Sponsors; Table of Contents; Chapter 1: Construction Technologies, Architecture and Urban Planning; Research on Linux-Based PC Cluster System and its Application in Numerical Simulation for Shallow Buried Soft Soil Tunnel; Finite Element Analysis of High Strength Recycled Concrete Beam Flexural Properties; Strength Test Research on Cement-Soil of Peat Soil in Kunming; Urban Rain Flood Disaster Mechanism and Prevention Research Study on Highway Transportation Route Selection of Heavy and Oversize Cargo Research on Civil Engineering with Comprehensive Evaluation Model of Urban Old-Age Real Estate Building Energy Saving; A Novel Deployable Emergency Bridge; Study on Mechanical Performance of Deep Pile Cap Failure; A Literature Review on Observation of the Pedestrian Step Forces; Study on Reinforcement of Artificial Boundary Pillar Using Slope-Toe-Enclosure Compound with Prestressed Cable-Bolts; Numerical Study on Damage Mechanism of PRC T-Beam under Close-In Blast Loading

Structure and Calibration Methods of Rainfall-Runoff Models
Uniaxial Spring and Multi-Axial Spring Model for Structural Nonlinear Analysis;
Evaluation of Highway Traffic Safety Facilities Based on Set Pair
Analysis; The Research on Healthy City Planning Based on GIS;
Comparative Study on the Effects of Infill Walls on Reinforced Concrete
Frame Structures; Research on Combination of Russian Architecture
and Beidaihe City Landscape; Research on Architecture Design of Multi-
Storey Residential in West City; Study on Concrete Construction
Technology of High-Rise Building
Testing Study on Moisture Content Effect on Thermal Conductivity for
Clay
Finite Element Analysis of Reinforced Concrete Beam for Carbon
Fiber-Reinforced Plastic; Strategy for Application of Non-Wood Fibrous
Material on Roofs at Rural Areas in Cold Region; Thermal Comfort
Study Based on Airflow within a Passenger Compartment; Research on
the Influence of Coal Mining on Aquifer; Research on Cataclastic Rock
Bolting Control; Numerical Analysis on Drainage Parameters in a High
Drainage Roadway; Numerical Design of High Drainage Roadway
Location in Fully Mechanized Coal Face
The Analysis of Lift Transport Platform Static Strength Based on
ANSYS
Chapter 2: Materials Science and Chemical Technologies;
Multipolar Surface Plasmon Peaks in Gold Nanoshells; Comparing
Diffuse Approximation and Kriging Method for Predicting the Tool Life
when Milling Ultrahigh Strength Steel; Research on Fast-Growing Poplar
Dyeing Technology Based on Material Properties; Study on the
Corrosion Inhibition of Extractive from *Jatropha curcas* L Seed Meal on
Copper; Geometric Model of CVD Mono-Crystalline Diamond Growth
The Application and Characteristics Analysis of a Variety of Plastic
Material in the Stadium

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 3rd
International Conference on Civil Engineering and Material Engineering
(CEME 2014), December 27-28, 2014, Changsha, China. The 71 papers
are grouped as follows: Chapter 1: Construction Technologies,
Architecture and Urban Planning; Chapter 2: Materials Science and
Chemical Technologies; Chapter 3: Environmental Engineering, Biofuel
and Biotechnology; Chapter 4: Control Engineering; Chapter 5:
Engineering Management and Engineering Assessment
