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Materials in Civil Engineering

Research on Material Properties and Heat Treatment of Clamping Blocks
The Current Situation and Analyze of Huizhou Traditional Architectural
Components and Materials to Repair Alternative Techniques; Synthesis
of an Intumescent Flame Retardant and its Application to Fireproof
Coatings of Steel Structures; Contrastive Analysis on Limitation Span
between Suspension Bridge Using Steel and CFRP Cable; The Research
about Plastic Cement Playground and Constructed Materials; Simulation
and Analysis on Supporting System of Composite Soil Nailing
Technology in the Process of Digging

Exploration of the Strategies in Civil Engineering to the Safety

Evaluation and Reinforcement Technique of Wood Structure of Ancient
Architecture in Huizhou Structural Design on a Building Stair by Folded
Steel Plates in Civil Engineering; Test of Solidification Characteristics of
Grouting and the Effect on Strata Deformation in Shield Tunnelling;

Seismic Damage Analysis and the Study of Reinforcement Measures for
RC Frame Structure Building in Civil Engineering

Influence of C/N Ratio on SND and Microbiological Analysis in Catching
Bed Biofilm Reactor Using Acrylic Resin Fiber as Carrier Materials in
Civil Engineering Study on Reconstruction of Elevation Structural Shape

for Historic Industrial Buildings in Chinese Civil Engineering; Bored Pile
Settlement Analysis of Pile End Grouting in Civil Engineering; Study on
Parameter Optimization of Copper Smelting in Civil Engineering;

Cantilever Construction Optimization of Cable-Stayed Bridge with
Hybrid Bridge Deck System and Building Materials in Civil Engineering

Study on the New-Style Building Materials in Civil Engineering -
Architectural Sandwich Panel and its Application

Sommario/riassunto

These are the proceedings of the 2012 International Conference on
Civil Engineering and Material Engineering (CEME2012), August 25-26,
Wuhan, China. The 90 peer reviewed paper are grouped as follows:
Chapter 1: Material Application and Structure in Civil Engineering;
Chapter 2: Mechanics Research in Civil Engineering and Material
Engineering; Chapter 3: Environmental Material and Civil Engineering;
Chapter 4: Material Engineering and its Application Technology. Review
from Book News Inc.: Many of the 90 papers in this collection consider
areas where civil engineering and materials engineering
