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Altri autori (Persone)	ZhangHelen JinDavid
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Nota di contenuto	Advanced Research on Architectonics and Materials; Preface, Committee and Sponsors; Table of Contents; Chapter 1: Architectonics and Materials Study; Analysis of Massive Platform Concrete 3-Dimensional Hydration Heat of Corrugated Steel Webs Bridge; Development of High-Rise Buildings from Materials Perspective; Temperature Field Division at Liupanshan Area of Ningxia for Asphalt Pavement Performance; Study on Corrosion Behaviour of Nickel Alloy in Acidic Environments; Study on Corrosion Process of Nickel-Based Alloy in Na ₂ SO ₄ Solutions The Preparation and Properties of Natural Bamboo Fiber/Polypropylene Fiber Non-Woven Materials Case Study on Beneficiation of Cassiterite-Polymetallic Sulphide Ores; A Comparison on Tailings Treatment and Disposal of Aba Lead-Zinc Concentrator; The Application Study of the Diamond Punching Method in Stamping Production of the Screen Hole Parts; Study on the Electricity Generation in Steel Production Concerning the Recovery of Waste Heat and Energy; Research on Influencing Factors of Wood Residual Fiber Foaming Cushion Material

A Beneficial Attempt - An Engineering Practice of Reusing Old Building Materials Digital Recording of Ancient Buildings by Using VTOL UAVS and Building Materials; Test and Select of Carrier of Phase Change Materials for Asphalt Mixtures; Analyses of High Grade Strength Steel Bars in the Design of a Five-Storey Reinforced Concrete Structure with Comparison of Energy Consumption and CO₂ Emission; Study on Corrosion Resistance of Brass in Circulating Cooling Water with Different Concentration Ratio; Study on Anti-Corrosion Behaviour of 304 Stainless Steel in Circulating Cooling Water
Research on Carbon Steel Test Conducted by Means of Steady-Damp Heat Periodic Immersion Method Settlement Research and Prediction on Soft Clay Foundation; Experience and Study of Austenitic Stainless Steel Machining; Effect of Thermal Conductivity on Temperature Fluctuations in the Mixing T-Junctions Filled with Porous Metal Materials; Comparison of Two Different Methods of Preparing Chemical Raw Materials Using Blast Furnace Gas; Preparation of Li₄Ti₅O₁₂ as Anode Material by Solution Method; The Synthesis and Ion-Exchange Property of Inorganic Material Mg_{1.5}Mn_{0.5}Ti_{0.75}O₄
The Synthesis and Ion-Exchange Property of Inorganic Material Mg₂Mn_{0.5}Ti_{0.5}O₄ Study of Inorganic Ion Exchange Material MgMn_{0.25}Ti_{0.75}O₃; A Constitutive Model for Collapsible Loess Material: I Analytic Formulation; A Constitutive Model for Collapsible Loess Material: II Application; Chapter 2: Architectural Mechanics, Architectural Environment and Structure; Research on Vibration Energy Recovery of Base on EAPs; Beneficiation of a Cassiterite-Polymetallic Sulphide Ore; The Application Study on Northern Guangxi Residence Materials Elements in Modern Building Design
Numerical Simulation of Splitting Tensile Strength for Concrete

Sommario/riassunto

These are the proceedings of the 2nd International Conference on Automation, Communication, Architectonics and Materials (ACAM 2012), held on the 23rd and 24th June, 2012, in Hefei, China: an invaluable fund of original ideas and new visual angles on all aspects of Materials and Mechanics in Architectonics and Materials Engineering. Review from Book News Inc.: Composed of selective, peer reviewed papers presented at the second conference, these proceedings are divided into two main parts: architectonics and materials, and architectural mechanics and their relation to structure. Although billed
