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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 857
Altri autori (Persone)	TianBo NiuKaimin
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Soggetti	Pavements, Concrete - Design and construction
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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 Pavement Research; Preface and Conference Organizers; Table of Contents; Chapter 1: Pavement Materials; Study on Test Methods for Intelligence-Based Monitoring of Fresh Cement Concrete Quality; Study on the Influence of Mix Design Parameters on the Properties of Self-Compacting Concrete; Study on Vibrational Liquefaction Behavior of Air-Entrained Concrete; Research on Chloride Ion Diffusion of Concrete Water-Based Capillary Crystalline Waterproofing and its Penetration Depth by Using Electron Microscope; Concrete Strength Estimation Using the Maturity Method Experimental Study on Gap-Graded Concrete Mixing UniformityEffect of Mineral Additives on Internal Relative Humidity and Dry Shrinkage of Light Weight Aggregate Concrete; Study on the Effect of Different Admixtures on the Early Autogenous Shrinkage of High Performance Concrete of Bridge Deck Pavement; Experimental Investigation of the Shrinkage Performance of Small Blocks Made by Rock Chips Concrete; Interaction between Slag and Clinker during Cement Hydration Process; Experimental Study on Effect of Recycled Asphalt Mixture Particles on Properties of Concrete Durability and Applications of Magnesium Phosphate Material for Rapid

Repair of Pavements Characteristics and Methods Research on Heavy  
 Compaction and Vibration Compaction of Graded Crushed Aggregate;  
 Study on Hair Crack Rubblization of the Old Cement Concrete  
 Pavement; Permeability of Lightweight Aggregate Concrete with Mineral  
 Admixture; Influence of Air Content and Vibration Time on Frost  
 Resistance of Air Entrained Concrete; A Study of the Capability for Fire  
 Resistance of Polypropylene Fibre Concrete  
 Based on the Orthogonal Design to Study the Design and Optimization  
 of Material Composition for Curing Compound Chapter 2: Structure and  
 Mechanical Properties of Pavement; Research on Early Cracking of the  
 CRCP in the Tunnel under Low Temperature Difference; The  
 Optimization of ACN-PCN Evaluation Method for Airport Pavement  
 under Operation; Sustainability Considerations for PCC Pavement  
 Design and Construction; Study on Dowel Bar Retrofit on Rigid  
 Pavement to Load Transfer Restoration; Research on Roller Compacted  
 Concrete Graduation with Vibration Liquefaction  
 Experimental Study on the Performance of Bond-Breaking Layer in  
 Reducing Friction and Improving Anti-Erosion Development and  
 Challenge of the Overlay Design for Old Cement Concrete Pavement;  
 Review of Push-Off Tests for Base Friction of Cement Concrete  
 Pavement; Influences on the Axle Load Stress of the Cement-Concrete  
 Pavement Structure Caused by the Crack or Cutting Crack of the Semi-  
 Rigid Base; Influence of Paving Condition on Longitudinal Cracking of  
 Portland Cement Concrete Pavement  
 Study on Freezing-and-Thawing Durability of Cement Concrete Based  
 on Experimental Investigation of Air-Void Parameters

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Sommario/riassunto

Collection of selected, peer reviewed papers from the 3rd International  
 Conference on Concrete Pavements Design, Construction, and  
 Rehabilitation (ICCPDCR 2013), December 12-13, 2013, Shanghai,  
 China. The 41 papers are grouped as follows: Chapter 1: Pavement  
 Materials; Chapter 2: Structure and Mechanical Properties of Pavement;  
 Chapter 3: Technologies of Concrete Pavement Production and Control.

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