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| 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 Waterproofer 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 PavementsCharacteristics 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 CompoundChapter 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-ErosionDevelopment 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

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.
