

1. Record Nr.	UNINA9910789131903321
Titolo	Advanced pavement research : selected, peer reviewed papers from the 3rd International Conference on Concrete Pavements Design, Construction, and Rehabilitation (ICCPDCR 2013), December 2-3, 2013, Shanghai, China / / edited by Bo Tian and Kaimin Niu
Pubbl/distr/stampa	Durnten-Zurich, Switzerland : , : Trans Tech Publications, , 2014 ©2014
ISBN	3-03826-338-9
Descrizione fisica	1 online resource (310 p.)
Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 857
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Disciplina	625.84
Soggetti	Pavements, Concrete - Design and construction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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 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.
