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Nota di contenuto	Silicate Building Materials; Preface and Committee; Table of Contents; Chapter 1: Cement-Based Materials; Application of Superfine Aggregate in Corrosion Resist of Hydraulic Concrete; Based on Maturity of Concrete Chloride Ion Diffusion Model and Life Prediction; Comparison of Effect of Iron Tailing Sand and Natural Sand on Concrete Properties; Comparison of Life Cycle Environmental Impacts between Natural Gypsum Board and FGD Gypsum Board; Effect of Aggregate Morphological Characteristics on the High-Temperature Performance of Steel Slag Based HMA Effect of Calcium Sulfate on the Formation of Ettringite in Calcium Aluminate and Sulfoaluminate Blended Systems Effect of Modified Metakaolin on Water Content of Hardened Cementitious Materials of Concrete; Influence of LDHs on Chloride Ion Binding in Cementitious Materials; Influence of Nano-SiO ₂ and Nano-TiO ₂ on Early Hydration of Calcium Sulfoaluminate Cement; Influence of Sucrose on Hydration Process of Portland Cement; Influence of Concrete with Lithium-Slag and Steel Slag by early Curing Conditions Influence of EVA Copolymer Latex on Cement Hydration and Microstructures of Modified Mortars Influences of Admixtures on

Properties of Foam Concrete with Iron Tailings; Life Cycle Assessment of Lightweight Aggregate Concrete Block; Properties and Microstructure of HPC with Lithium-Slag and Fly Ash; Research on Homogeneity of Expanded Perlite Lightweight Concrete; Study on Different Diameter Porous Steel Slag to Early Cracking Resistance of Concrete by Internal Curing; Study on Mechanical and Thermal Properties of Graphite Modified Cement Concrete

Study on Preparation of Low-Thermal Expansion Coefficient Concrete with Fly Ash Study on Utilization of Silica-Calcium Tailings in Concrete; Utilization of Steel Slags in the Cement Industry; Chapter 2: Asphalt-Based Materials; Discussion on Andesite Asphalt Mixture Used as Pavement Lower Surface; Effect of Anti-Rut Agents on Properties of Asphalt Mixture; Effect of Fine Aggregate on Properties of Asphalt Mixture; Effect of Portland Cement on Moisture Resistance of Gneiss Based HMA; Effect of Ultraviolet Light Aging on Fatigue Properties of Asphalt

Effect of Waste Edible Animal Oil on Physical Properties of Aged Asphalt Effect of Waste Edible Vegetable Oil on High Temperature Properties of Different Aged Asphalts; Effect of Rejuvenating Agents on Performances of Aged SBS Modified Asphalt; Effects of Diffusible Rejuvenator on Properties of Recycled Asphalt Mixture; Effects of Steel Wool Distribution on Properties of Porous Asphalt Concrete; Effects of Various Rejuvenator Sealer Materials on Rheological Properties of Aged SBS Modified Asphalt; Feasibility Research on Superpave Gyratory Compactor Method Design Mix of Stone Mastic Asphalt Influence of High-Temperature Volatilization on Performance of Bituminous Binder

Sommario/riassunto

With the development of Chinese infrastructure, the consumption of silicate building materials has been increasing yearly. Meanwhile, the requirements of sustainable development for silicate building materials are also increasing due to the strengthening of people's consciousness of environment protection. The aim of this book is to publish the latest research progress on silicate building materials, which have been discussed on 2013 Annual Meeting of Chinese Ceramic Society's Building Materials Branch. Moreover, this book will provide the platform for researchers all over the world to exchange
