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	Autore	Belli, Ubaldo
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2.	Record Nr.	UNINA9910299570303321
	Autore	Zhang Yanrong
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Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Methodology.- Rheological properties of fresh cement pastes -- Mesostructure of fresh cement pastes -- Mechanism of chemical admixtures: Adsorption, Hydration and Rheology. - Microstructure model and rheological model of fresh cement pastes. - Pore structure and impermeability of hardened cement pastes. - Conclusions of the research.
Sommario/riassunto	This thesis studies the effects of superplasticizers, polyacrylate latexes and asphalt emulsions, which differ in molecular/particle size from nanometers to microns, on the rheological properties of fresh cement pastes (FCPs), as well as the action mechanisms involved. It systematically investigates the rheological properties and microstructure of cement-based materials, and elucidates the adsorption behaviors of polycarboxylate polymers with different functional groups and their effects on cement hydration. Moreover, it reveals how the working mechanism of naphthalene sulfonate formaldehyde (NSF) differs from that of polycarboxylate ether-based (PCE) superplasticizers. Lastly, it develops a conceptual microstructure model and two rheological equations. These findings lend theoretical support to the development of new chemical admixtures and new, higher-performance, cement-based composites.