

Cement-based Materials



Coarse aggregates



Fine aggregates



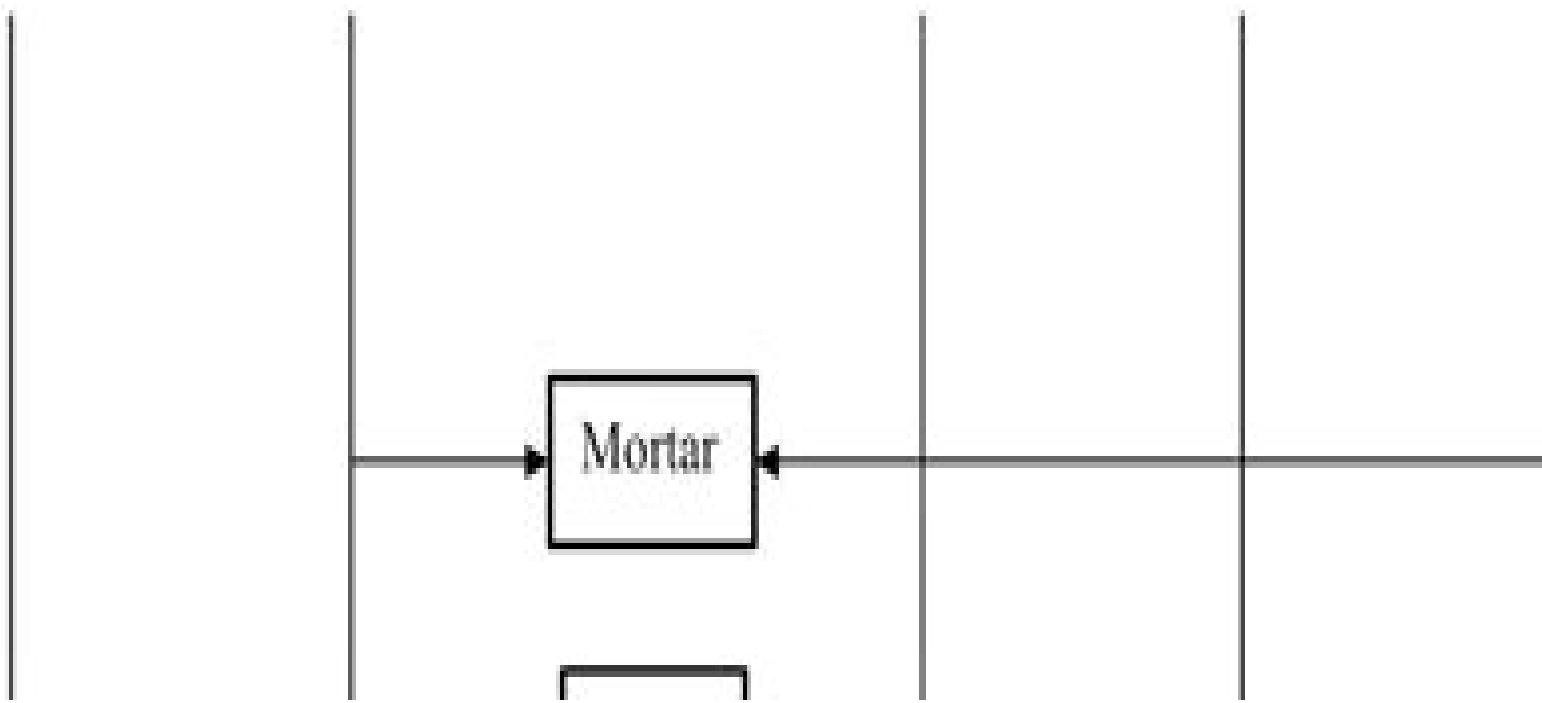
Cement



Water



Lime



Multifunctional Cement Based Materials

**Wengui Li, Wenkui Dong, Surendra P.
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Environmental Engineering and the group leader of Intelligent Concrete and Infrastructure Materials in the Centre for Infrastructure Engineering and Safety CIES at The University of New South Wales UNSW Sydney Australia He is the recipient of Australian Research Council ARC Future Fellow and ARC DECRA Fellow Wenkui Dong earned his PhD from the University of Technology Sydney Australia Currently he works as Postdoctoral Research Fellow at the Institute of Construction Materials at Technische Universität Dresden Germany Surendra P Shah is a Presidential Distinguished Professor at the University of Texas at Arlington Walter P Murphy Professor emeritus at Northwestern University and a member of the National Academy of Engineering USA

Multifunctional Cement-Based Sensors for Intelligent Infrastructure Wengui Li, Wenkui Dong, Surendra P. Shah, 2024-09-11 Multifunctional Cement Based Sensors for Intelligent Infrastructure Design Fabrication and Application covers the development and use of cement based sensors for monitoring structural health durability and environmental conditions in concrete infrastructure Monitoring the performance and condition of bridges buildings and roads improves safety and longevity while preventing failures and reducing maintenance costs Cement based sensors offer low cost ease of installation and compatibility with existing building materials and can also provide real time monitoring data to detect and diagnose potential issues before they become major problems This book sets out the principles of the sensing mechanisms fabrication techniques and performance evaluation along with several case studies It also provides a glimpse into a future where concrete structures will not only stand as pillars of strength but also become an indispensable part of smart cities as the core of automation The book suits researchers engineers and practitioners involved in design construction and maintenance of concrete buildings and infrastructure Wengui Li is a Scientia Associate Professor in the School of Civil and Environmental Engineering and the group leader of Intelligent Concrete and Infrastructure Materials in the Centre for Infrastructure Engineering and Safety CIES at The University of New South Wales UNSW Sydney Australia He is the recipient of Australian Research Council ARC Future Fellow and ARC DECRA Fellow Wenkui Dong earned his PhD from the University of Technology Sydney Australia Currently he works as Postdoctoral Research Fellow at the Institute of Construction Materials at Technische Universität Dresden Germany Surendra P Shah is a Presidential Distinguished Professor at the University of Texas at Arlington Walter P Murphy Professor emeritus at Northwestern University and a member of the National Academy of Engineering USA

Nanotechnology in Cement-Based Construction Antonella D'Alessandro, Annibale Luigi Materazzi, Filippo Ubertini, 2020-01-22 Many books on new smart materials are available but specialized analysis of particular topics is still in high demand This multiauthor book focuses on applying nanotechnology to cement based materials to make numerous engineering applications possible The addition of novel smart nanofillers allows the development of multifunctional composite materials not just limited to improving mechanical strength but also including several enhanced features Special attention is devoted to types of nano inclusions novel techniques to mix components and analysis of properties that can be achieved by paste mortar or concrete if added

with nanofillers Among these properties the capability of self sensing is very promising Moreover the use of phase changing materials improves the energy efficiency of nanocomposites resulting in important applications in engineering Particular attention is also focused on energy harvesting and electromagnetic shielding properties Comprehensive and up to date this is an important reference book that not only provides in depth information about recent developments and perspectives in this field but also discusses topics that promise major developments in the near future *Recent Advances in Nano-Tailored Multi-Functional Cementitious Composites* Mustafa Şahmaran,Faiz Shaikh,Gürkan Yıldırım,2022-03-08 Over the past few years concrete technology has advanced quite dramatically thanks to the use of a great variety of additives and admixtures which have paved the way for the effective development of new generation concrete mixtures Among these additives and admixtures nanomaterials used in construction materials such as paste mortar and concrete mixtures have become very popular recently Much of the previous attention in regard to the utilization of nanomaterials in construction materials was specifically devoted to the characterization of their fresh state hydration microstructure pore structure mechanical transport and durability properties However research into the tailoring of multi functional properties of construction materials especially cementitious with the use of nanomaterials is still in its infancy *Recent Advances in Nano Tailored Multi Functional Cementitious Composites* aims to capture recent major scientific advances and the current state of the art in multi functional cementitious composites developed with nanomaterials The book will provide researchers engineers and other stakeholders with an insight into future directions of multi functional capabilities of cementitious composites Chapters focus on the large scale development characterization and application of multi functional cementitious composites addressing the following topics nano modified concrete strain hardening cementitious composites self sensing concrete self healing and bacteria based concrete self cleaning concrete self consolidating concrete material construction technology for 3D printing thermal insulation capability green concretes including geopolymers concrete nanoscale characterization methods low CO₂ reactive magnesia cements and future developments and challenges of nano tailored cementitious composites The book will be an essential reference resource for academic and industrial researchers materials scientists and civil engineers working on the development and application of nano tailored multi functional cementitious composites Provides very comprehensive and unique details about multi functional properties of cementitious composites Presents a detailed account of investigations conducted into the application of nanomaterials and nanoscale tailoring to achieve multi functional properties for cementitious composites Features state of the art preparation production processing and implementation techniques of nanoscale tailoring of multi functional cementitious composites starting from laboratory to large scale *Smart and Multifunctional Concrete Toward Sustainable Infrastructures* Baoguo Han,Liqing Zhang,Jinping Ou,2017-06-12 This book presents the latest research advances and findings in the field of smart multifunctional concretes focusing on the principles design and fabrication test and characterization performance and mechanism and their applications in infrastructures It also

discusses future challenges in the development and application of smart multifunctional concretes providing useful theory ideas and principles as well as insights and practical guidance for developing sustainable infrastructures It is a valuable resource for researchers scientists and engineers in the field of civil engineering materials and infrastructures

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New-Generation Cement-Based Nanocomposites Siqi Ding, Xinyue Wang, Baoguo Han, 2023-05-18 The subject of this book is civil engineering material and nanotechnology Recent advances in nano synthetic technologies and nanocomposite technologies as well as nano surface modification technologies are driving the progressive exploitation of advanced nanomaterials In view of their unique structures and mutual synergy these advanced nanomaterials are expected to alleviate the dispersion issue of traditional nanomaterials in cement based composites improve their nanocomposite effectiveness and efficiency as well as impart new properties and functionalities to cement based composites thus boosting the development of new generation cement based nanocomposites Based on the authors latest research accumulations and achievements this book presents the fundamentals fabrications characterizations performances and applications of the new generation cement based nanocomposites It features numerous illustrations and data graphs as well as summary tables to visually describe the topics This book is dedicated to students researchers scientists and engineers in the field of civil engineering materials and nanotechnology The readers can find information on progress of civil engineering materials and nanotechnologies cutting edge research ideas and findings and practical guidance for developing sustainable and multifunctional cement based nanocomposites

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