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Eco-efficient Repair and Rehabilitation of Concrete Infrastructures provides an updated state-of-the-art review on eco-efficient repair and rehabilitation of concrete infrastructure. The first section focuses on deterioration assessment methods, and includes chapters on stress wave assessment, ground-penetrating radar, monitoring of corrosion, SHM using acoustic emission and optical fiber sensors. Other sections discuss the development and application of several new innovative repair and rehabilitation materials, including geopolymer concrete, sulfoaluminate cement-based concrete, engineered cementitious composites (ECC) based concrete, bacteria-based concrete, concrete with encapsulated polyurethane, and concrete with super absorbent polymer (SAPs), amongst other topics. Final sections focus on crucial design aspects, such as quality control, including lifecycle and cost analysis with several related case studies on repair and rehabilitation. The book will be an essential reference resource for materials scientists, civil and structural engineers, architects, structural designers and contractors working in the construction industry. Delivers the latest research findings with contributions from leading international experts Provides fully updated information on the European standard on materials for concrete repair (EN 1504) Includes an entire sections on the state-of-the-art in NDT, innovative

repair and rehabilitation materials, as well as LCC and LCA information Why Buy This Book? Because the content in this book may prevent you from wasting hours of your life and possibly thousands of dollars due to misunderstanding concrete reports and submittals. The concrete industry has a variety of concrete reports. If not careful, these reports can waste a significant amount of time, energy, and possibly money. This book provides clear, concise, and practical information about different concrete reports such as the core report, the cement mill certification report, and the petrographer's report. This book presents the select proceedings of the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS 2021). It discusses emerging and latest research and advances in sustainability in different areas of civil engineering, providing solutions to sustainable development. Various topics covered include sustainable construction technology & building materials; structural engineering, transportation and traffic engineering, geotechnical engineering, environmental engineering, water resources engineering, remote sensing and GIS applications. This book will be of potential interest to researchers and professionals working in sustainable civil engineering and related fields. This open access book focuses on the development of methods, interoperable and integrated ICT tools, and survey techniques for optimal management of the building process. The construction sector is facing an increasing demand for major innovations in terms of digital dematerialization and technologies such as the Internet of Things, big data, advanced

manufacturing, robotics, 3D printing, blockchain technologies and artificial intelligence. The demand for simplification and transparency in information management and for the rationalization and optimization of very fragmented and splintered processes is a key driver for digitization. The book describes the contribution of the ABC Department of the Polytechnic University of Milan (Politecnico di Milano) to R&D activities regarding methods and ICT tools for the interoperable management of the different phases of the building process, including design, construction, and management. Informative case studies complement the theoretical discussion. The book will be of interest to all stakeholders in the building process - owners, designers, constructors, and faculty managers - as well as the research sector. This book presents select proceedings of the International Conference on Sustainable Construction and Building Materials (ICSCBM 2018), and examines a range of durable, energy-efficient, and next-generation construction and building materials produced from industrial wastes and byproducts. The topics covered include alternative, eco-friendly construction and building materials, next-generation concretes, energy efficiency in construction, and sustainability in construction project management. The book also discusses various properties and performance attributes of modern-age concretes including their durability, workability, and carbon footprint. As such, it offers a valuable reference for beginners, researchers, and professionals interested in sustainable construction and allied fields. "A very interesting and useful book for all the different practitioners in the concrete

industry. Each necessary step is thoroughly dealt with and explained in a nice and pedagogic way." Peter Billberg, Swedish Cement and Concrete Research Institute (CBI)"Quite comprehensive and with a narrative style at the practitioner level." Lloyd Keller, Direc Existing surfactants directories tend to focus on product identification by tradename, producer or chemical type, enabling the user only to identify product equivalents and surfactant suppliers. Application information, where available, is usually scant or given as a footnote. This new directory approaches the identification of surfactants primarily from the applications standpoint. Hence the formulator or end-user can readily assess the products available for use in a particular industry sector and select materials giving the required surface active properties. For example, a formulator of agrochemicals for crop protection can turn to the section which refers to surfactants for use in the agrochemical industry and then easily identify a wetter/dispersant system for the production of water dispersible granules. Information is presented in an alternative format in the second part of the directory, which will help the user to identify swiftly products for a particular application by surface active properties. It is difficult, if not impossible, to identify an industry which does not directly or indirectly utilise surfactants. Therefore it has proved necessary to simplify industry classifications to encompass a variety of uses under broader sector titles. The industry classifications adopted here have been used in many previous publications and papers, and define as accurately as possible the major industries and

applications serviced by the surfactant industry. The editors have been particularly pleased with the support and response of the industry in the supply of data. This book contains the proceedings of the fib Symposium “High Tech Concrete: Where Technology and Engineering Meet”, that was held in Maastricht, The Netherlands, in June 2017. This annual symposium was organised by the Dutch Concrete Association and the Belgian Concrete Association. Topics addressed include: materials technology, modelling, testing and design, special loadings, safety, reliability and codes, existing concrete structures, durability and life time, sustainability, innovative building concepts, challenging projects and historic concrete, amongst others. The fib (International Federation for Structural Concrete) is a not-for-profit association committed to advancing the technical, economic, aesthetic and environmental performance of concrete structures worldwide. Sprayed concrete lined (SCL) tunnels are growing rapidly in popularity due to their versatility. The design and construction of both hard rock and soft ground tunnels has been revolutionised by the advent of the SCL method and now the use of permanent sprayed concrete linings has unlocked the true potential of the method to minimise construction costs and times. Yet the complex early age behaviour of the sprayed concrete makes the design difficult and requires a robust management system during construction. Consequently the great advantages of the method must be balanced against the risks, as a few high-profile tunnel collapses have illustrated. Practising engineers on site, in the design office or in client organizations will

find this book an excellent introduction. It covers all aspects of SCL tunnelling – from the constituents of sprayed concrete to detailed design and management during construction. Although there is a close interdependence between all the facets of sprayed concrete, few engineers have the right breadth of experience and expertise to cover all of them. This urgently needs to be transferred to the wider engineering community as SCL tunnels play an increasingly important role in the delivery of the underground infrastructure which modern urban life demands. In this second edition, beyond a general updating to reflect new developments, the sections on permanent sprayed concrete, the innovative technology of spray applied waterproofing membranes, fibre reinforcement (both steel and macrosynthetic) and composite lining design have been expanded. Sustainability and environmental impact are addressed in a new section. Challenges, Opportunities and Solutions in Structural Engineering and Construction addresses the latest developments in innovative and integrative technologies and solutions in structural engineering and construction, including: Concrete, masonry, steel and composite structures; Dynamic impact and earthquake engineering; Bridges and This is the state-of-the-art report prepared by the RILEM TC “Application of Super Absorbent Polymers (SAP) in concrete construction”. It gives a comprehensive overview of the properties of SAP, specific water absorption and desorption behaviour of SAP in fresh and hardening concrete, effects of the SAP addition on rheological properties of fresh concrete, changes of cement paste microstructure and

mechanical properties of concrete. Furthermore, the key advantages of using SAP are described in detail: the ability of this material to act as an internal curing agent to mitigate autogenous shrinkage of high-performance concrete, the possibility to use SAP as an alternative to air-entrainment agents in order to increase the frost resistance of concrete, and finally, the benefit of steering the rheology of fresh cement-based materials. The final chapter describes the first existing and numerous prospective applications for this new concrete additive. With superior fire resistance, strength, and a long service life, concrete is the most widely used construction material in the world. A sustainable material, concrete is also easily and affordably reused and rehabilitated. The first book to provide an overview of sustainability and concrete, Green Building with Concrete: Sustainable Design and Con Collection of selected papers on current advances in high performance construction materials. Contributions deal with the development, characterization, application procedures, performance and structural design of materials with key potential in civil engineering works. Materials treated are fibre reinforced concrete, high performance concrete, self compacting concrete and novel combinations of these. For researchers, practitioners, consultants, contractors and suppliers. This book provides practicing engineers with a step by step approach for making durable concrete with optimum use of the local materials available within the various regions of the United States. It further includes actual concrete mixture proportions for high performance concrete for strength and

durability under various aggressive environments based on the author's experience in the field, and support this with illustrative case studies. Examples for concrete mixture proportions, based on the current industry practice and standards, are highlighted to assist engineers in meeting the intended performance requirements (for specific environment conditions) for durable concrete. Covering an important topic for the construction and building materials industries, this book delivers the most up-to-date industry practices and advances in concrete construction from the perspective of a practicing engineer with over 40 year experience. Maximizes practicing engineers' understanding of best design and construction practices in fabricating, delivery, and installation of concrete, consistent with current knowledge on concrete durability Discusses quality control and testing requirements during design and construction, including mixing, production, and placement of concrete and tolerances for slump and air content Emphasizes real-world examples of optimal concrete mixtures, suitable for selected service conditions and applications, based on prior successful records of projects within the US Addresses the role of innovative admixtures in concrete placement in cold weather conditions below 32F and meeting the strength and durability requirements Serves as a valuable resource for students in graduate programs The success of a repair or rehabilitation project depends on the specific plans designed for it. Concrete Structures: Protection, Repair and Rehabilitation provides guidance on evaluating the condition of the concrete in a structure, relating the condition of the concrete to the

underlying cause or causes of that condition, selecting an appropriate repair material and method for any deficiency found, and using the selected materials and methods to repair or rehabilitate the structure. Guidance is also provided for engineers focused on maintaining concrete and preparing concrete investigation reports for repair and rehabilitation projects. Considerations for certain specialized types of rehabilitation projects are also given. In addition, the author translates cryptic codes, theories, specifications and details into easy to understand language. Tip boxes are used to highlight key elements of the text as well as code considerations based on the International Code Council or International Building Codes. The book contains various worked out examples and equations. Case Studies will be included along with diagrams and schematics to provide visuals to the book. Deals primarily with evaluation and repair of concrete structures Provides the reader with a Step by Step method for evaluation and repair of Structures Covers all types of Concrete structures ranging from bridges to sidewalks Handy tables outlining the properties of certain types of concrete and their uses This Proceedings contains the papers of the fib Symposium “CONCRETE Innovations in Materials, Design and Structures”, which was held in May 2019 in Kraków, Poland. This annual symposium was co-organised by the Cracow University of Technology. The topics covered include Analysis and Design, Sustainability, Durability, Structures, Materials, and Prefabrication. The fib, Fédération internationale du béton, is a not-for-profit association formed by 45 national member groups and

approximately 1000 corporate and individual members. The fib's mission is to develop at an international level the study of scientific and practical matters capable of advancing the technical, economic, aesthetic and environmental performance of concrete construction. The fib, was formed in 1998 by the merger of the Euro-International Committee for Concrete (the CEB) and the International Federation for Prestressing (the FIP). These predecessor organizations existed independently since 1953 and 1952, respectively. The first international FRC workshop supported by RILEM and ACI was held in Bergamo (Italy) in 2004. At that time, a lack of specific building codes and standards was identified as the main inhibitor to the application of this technology in engineering practice. The workshop aim was placed on the identification of applications, guidelines, and research needs in order for this advanced technology to be transferred to professional practice. The second international FRC workshop, held in Montreal (Canada) in 2014, was the first ACI-fib joint technical event. Many of the objectives identified in 2004 had been achieved by various groups of researchers who shared a common interest in extending the application of FRC materials into the realm of structural engineering and design. The aim of the workshop was to provide the State-of-the-Art on the recent progress that had been made in term of specifications and actual applications for buildings, underground structures, and bridge projects worldwide. The rapid development of codes, the introduction of new materials and the growing interest of the construction industry suggested presenting this forum at closer

intervals. In this context, the third international FRC workshop was held in Desenzano (Italy), four years after Montreal. In this first ACI-fib-RILEM joint technical event, the maturity gained through the recent technological developments and large-scale applications were used to show the acceptability of the concrete design using various fibre compositions. The growing interests of civil infrastructure owners in ultra-high-performance fibre-reinforced concrete (UHPFRC) and synthetic fibres in structural applications bring new challenges in terms of concrete technology and design recommendations. In such a short period of time, we have witnessed the proliferation of the use of fibres as structural reinforcement in various applications such as industrial floors, elevated slabs, precast tunnel lining sections, foundations, as well as bridge decks. We are now moving towards addressing many durability-based design requirements by the use of fibres, as well as the general serviceability-based design. However, the possibility of having a residual tensile strength after cracking of the concrete matrix requires a new conceptual approach for a proper design of FRC structural elements. With such a perspective in mind, the aim of FRC2018 workshop was to provide the State-of-the-Art on the recent progress in terms of specifications development, actual applications, and to expose users and researchers to the challenges in the design and construction of a wide variety of structural applications. Considering that at the time of the first workshop, in 2004, no structural codes were available on FRC, we have to recognize the enormous work done by researchers all over the

world, who have presented at many FRC events, and convinced code bodies to include FRC among the reliable alternatives for structural applications. This will allow engineers to increasingly utilize FRC with confidence for designing safe and durable structures. Many presentations also clearly showed that FRC is a promising material for efficient rehabilitation of existing infrastructure in a broad spectrum of repair applications. These cases range from sustained gravity loads to harsh environmental conditions and seismic applications, which are some of the broadest ranges of applications in Civil Engineering. The workshop was attended by researchers, designers, owner and government representatives as well as participants from the construction and fibre industries. The presence of people with different expertise provided a unique opportunity to share knowledge and promote collaborative efforts. These interactions are essential for the common goal of making better and sustainable constructions in the near future. The workshop was attended by about 150 participants coming from 30 countries. Researchers from all the continents participated in the workshop, including 24 Ph.D. students, who brought their enthusiasm in FRC structural applications. For this reason, the workshop Co-chairs sincerely thank all the enterprises that sponsored this event. They also extend their appreciation for the support provided by the industry over the last 30 years which allowed research centers to study FRC materials and their properties, and develop applications to making its use more routine and accepted throughout the world. Their important

contribution has been essential for moving the knowledge base forward. Finally, we appreciate the enormous support received from all three sponsoring organizations of ACI, fib and Rilem and look forward to paving the path for future collaborations in various areas of common interest so that the developmental work and implementation of new specifications and design procedures can be expedited internationally. 3D Concrete Printing Technology provides valuable insights into the new manufacturing techniques and technologies needed to produce concrete materials. In this book, the editors explain the concrete printing process for mix design and the fresh properties for the high-performance printing of concrete, along with commentary regarding their extrudability, workability and buildability. This is followed by a discussion of three large-scale 3D printings of ultra-high performance concretes, including their processing setup, computational design, printing process and materials characterization. Properties of 3D-printed fiber-reinforced Portland cement paste and its flexural and compressive strength, density and porosity and the 3D-printing of hierarchical materials is also covered. Explores the factors influencing the mechanical properties of 3D printed products out of magnesium potassium phosphate cement material Includes methods for developing Concrete Polymer Building Components for 3D Printing Provides methods for formulating geopolymers for 3D printing for construction applications This volume highlights the latest advances, innovations, and applications in the field of fibre reinforced concrete (FRC) and discusses a diverse range of

topics concerning FRC: rheology and early-age properties, mechanical properties, codes and standards, long-term properties, durability, analytical and numerical models, quality control, structural and Industrial applications, smart FRC’s, nanotechnologies related to FRC, textile reinforced concrete, structural design and UHPFRC. The contributions present improved traditional and new ideas that will open novel research directions and foster multidisciplinary collaboration between different specialists. Although the symposium was postponed, the book gathers peer-reviewed papers selected in 2020 for the RILEM-fib International Symposium on Fibre Reinforced Concrete (BEFIB). This book comprises selected papers from the International Conference on Civil Engineering Trends and Challenges for Sustainability (CTCS) 2019. The book presents latest research in several areas of civil engineering such as construction and structural engineering, geotechnical engineering, environmental engineering and sustainability, and geographical information systems. With a special emphasis on sustainable development, the book covers case studies and addresses key challenges in sustainability. The scope of the contents makes the book useful for students, researchers, and professionals interested in sustainable practices in civil engineering. A dozen papers from a June 1992 symposium in Louisville, Kentucky review the current use of organic polymers dispersed in water and formulated to add to portland cement. One sets out the status of ASTM's forthcoming specification and test methods. Others discuss such aspects as solid grade acrylic c Concrete is a material used widely in

building and construction applications worldwide; hence, it plays a significant role in the global construction sector. Cement is a major component of concrete and is used in construction applications, either on its own or as a composite with other materials, to improve workability, durability, strength, weight, and shrinkage. However, cement and concrete production and use have adverse environmental effects. Thus, great efforts have been made to produce eco-friendly concrete. This book examines several aspects of sustainable concrete technologies, including new forms of concrete as well as different approaches for creating sustainable cement. This volume presents a wide-ranging review of the latest developments in concrete technology that have been largely missing from the global conference circuit. It the first major international event under the auspices of the Institute of Concrete Technology (ICT) and is appropriately located in the Middle East at the heart of a construction boom. Themes covered include admixture technology, durability, mix design, special cements and supplementary materials, reinforced concrete and sustainability. The 39 papers provide interesting theory and applicable practice blended with research findings – from the application of 3D printing to performance-based specifications and the role of concrete in the development of Oman – to produce a volume of value to many engineers and technologists. Founded in 1972, The Institute of Concrete Technology (ICT)’s mission is to preserve and promote concrete technology as a recognised engineering discipline and consolidate the professional status of practising concrete technologists

worldwide. It is the concrete sector’s professional development body, operating internationally, with some 500 members in more than 30 countries. It is an awarding body for qualifications in concrete technology and a facilitator of continuing professional development (CPD) and networking opportunities. Our partner in this conference, The Military Technical College in Muscat, Oman, was established with the intent of becoming a Center of Excellence in engineering education. Located in one purpose-built, state-of-the-art, well-resourced center, the intent is that MTC will be amongst the world's best in the field of military and applied non-military technological education and training providers in the world. ?The original point that differentiates this text from otherwise similar texts is that it looks at the building of smart cities from the viewpoint of an interchange of knowledge among companies in different industries, or “Ba” as shared context in motion, and emphasizes that the resulting value becomes a source of new corporate competitive advantage. In recent years numerous publications have appeared that analyze smart cities from various perspectives including urban planning and administration, network theory, and innovation. However, few are academic texts that approach the subject from the viewpoint of corporate competitive advantage against a theoretical background in management studies, as this one does. This book is the first full-scale academic work to analyze smart cities from the viewpoint of corporate competitive advantage. Research into corporate competitive advantage includes the positioning and the resource-based views, with the

former focusing on companies' external environment and the latter on their internal resources. Although these theories' foci of attention necessarily differ, they both developed as tools for analyzing companies' relative merits and their chances of succeeding in the marketplace, and they take the common premise that competitive advantage is built through competition among companies. In contrast, this book sees corporate competitive advantage as arising not through competition but through "co-creation" among companies. It differs in its approach from existing theories in thinking that emphasizing co-creation over competition enables an analysis that better describes actual conditions when considering smart cities and corporate competitive advantage. Put another way, when new values arise from attempts to exchange and fuse knowledge, expertise, and other factors at the "ba" where companies from different industries collaborate, these values are surely brought about through co-creation among companies. Another point regarding this book's original perspective on competitive advantage is its emphasis on the relationship between the creation of social value and competitive advantage. The question of the extent to which socially useful values can be created in the markets of the 21st century is closely linked to corporate competitive advantage. The issues of building smart cities and corporate competitive advantage are themes that this perspective can firmly grasp. This book intends to take up three different projects from among the smart-city building developments taking shape in Japan, and undertake case studies based on the theoretical framework outlined

above. The central themes will analyze the mechanism of co-creation among companies and the relationship of created value to competitive advantage. This analysis aims to demonstrate one model relating to corporate competitive advantage in the 21st century. Awareness of the importance of ensuring durability of concrete has been a growing concern of engineers, and there is now considerable understanding of the mechanisms, which cause its deterioration, and means of limiting such damage through the use of appropriate materials and approaches to design. Many of the deterioration mechanisms, which affect concrete, are the result of interaction with the non-living environment – chlorides in seawater, carbon dioxide in the atmosphere, cyclic freezing and thawing. However, living organisms can also cause damage – through both chemical and physical processes - which under the right conditions, can be severe. This book looks at all forms of concrete biodeterioration together for the first time. It examines, from a fundamental starting point, biodeterioration mechanisms, as well as the conditions which allow living organisms (bacteria, fungi, plants and a range of marine organisms) to colonise concrete. A detailed evaluation of chemical compounds produced by living organisms with respect to their interaction with the mineral constituents of concrete, and the implications it has for the integrity of structures, is also included. Approaches to avoiding biodeterioration of concrete are also covered, including selection of materials, mix proportioning, design, and use of protective systems. This practical, easy-to-understand book sets a path to successfully

building a culture for sustainability in today's global marketplace, providing "best practice" case studies from industries and sectors including manufacturing, business-to-business, hospitality, consumer products, telecommunications, and professional services. • Never-before-published stories and lessons learned from nine successful global companies that are building cultures for sustainability • Tips from business leaders on how to create purposeful work environments that ignite employees' passion • Practical resources: on-the-ground successful programs; proven global and local best practices; top-down and bottom-up strategies and activities; and user-friendly frameworks, tools, and references that help firms at any level of sustainability build a more sustainable culture via increased employee engagement The use of fibrous materials in civil engineering, both as structural reinforcement and in non-structural applications such as geotextiles, is an important and interesting development. Fibrous and composite materials for civil engineering applications analyses the types and properties of fibrous textile and structures and their applications in reinforcement and civil engineering. Part one introduces different types of fibrous textiles and structures. Chapters cover the properties of natural and man-made fibres and of yarns, as well as an overview of textile structures. Part two focuses on fibrous material use in concrete reinforcement, with chapters on the properties and applications of steel fibre reinforced concrete, natural fibre reinforced concrete and the role of fibre reinforcement in mitigating shrinkage cracks. In part three, the applications of fibrous material-based

composites in civil engineering are covered. Chapters concentrate on production techniques and applications such as reinforcement of internal structures, structural health monitoring and textile materials in architectural membranes. With its distinguished editor and international team of contributors, Fibrous and composite materials for civil engineering applications is a standard reference for fabric and composite manufacturers, civil engineers and professionals, as well as academics with a research interest in this field. Explores the development of fibrous materials in civil engineering, both as structural reinforcement and in non-structural applications such as geotextiles Key topics include short fibre reinforced concrete, natural fibre reinforced concrete and high performance fibre reinforced cementitious composites A standard reference for fabric and composite manufacturers, civil engineers and professionals, as well as academics with a research interest in this field This book provides an overview of the environmental problems that arise from construction activity, focusing on refurbishment as an alternative to the current crisis in the construction sector, as well as on measures designed to minimize the effects on the environment. Furthermore, it offers professionals insights into alternative eco-efficient solutions using new materials to minimize environmental impacts and offers solutions that they can incorporate into their own designs and buildings. It also demonstrates best practices in the cooperation between various universities in Andalusia in Spain and Latin America and many public and private companies and organizations. This book serves as a valuable

reference resource for professionals and researchers and provides an overview on the status of investigations to find solutions to improve sustainable development in terms of materials, systems, facilities, neighborhoods, buildings, and awareness of the society involved. To protect metals or alloys from corrosion, some methods can be used such as isolating the structure from the aggressive media or compensating the loss of electrons from the corroded structure. The use of corrosion inhibitors may include organic and inorganic compounds that adsorb on the metallic structure to isolate it from its surrounding media to decrease oxidation-reduction processes. This book collects new developments about corrosion inhibitors and their recent applications. Interest in sustainable, green building practices is greater than ever. Whether concerned about allergies, energy costs, old-growth forests, or durability and long-term value, homeowners and builders are looking for ways to ensure that their homes are healthy, safe, beautiful and efficient. In these pages are descriptions and manufacturer contact information for more than 1,400 environmentally preferable products and materials. All phases of residential construction, from sitework to flooring to renewable energy, are covered. Products are grouped by function, and each chapter begins with a discussion of key environmental considerations, and what to look for in a green product. Over 40% revised, this updated edition includes over 120 new products. Categories of products include: Sitework and landscaping Outdoor structures Decking Foundations, footers and slabs Structural systems and components Sheathing Exterior finish and trim

Roofing Doors and windows Insulation Flooring and floor coverings Interior finish and trim Caulks and adhesives Paints and coatings Mechanical systems/HVAC Plumbing, electrical and lighting Appliances Furniture and furnishings Renewable energy Distributors and retailers An index of products and manufacturers makes for easy navigation. There is no more comprehensive resource for both the engaged homeowner and those who design and build homes. This book gathers the peer-reviewed contributions presented at two parallel, closely interconnected events on advanced construction materials and processes, namely the 2nd International RILEM Conference on Rheology and Processing of Construction Materials (RheoCon2) and the 9th International RILEM Symposium on Self-Compacting Concrete (SCC9), held in Dresden, Germany on 8-11 September 2019. The papers discuss various aspects of research on the development, testing, and applications of cement-based and other building materials together with their specific rheological properties. Furthermore, the papers cover the latest findings in the fast-growing field of self-compacting concrete, addressing topics including components' properties and characterization; chemical admixtures, effect of binders (incl. geopolymers, calcined clay, etc.) and mixture design; laboratory and in-situ rheological testing; constitutive models and flow modelling; numerical simulations; mixing, processing and casting processes; and additive manufacturing / 3D-printing. Also presenting case studies, the book is of interest to researchers, graduate students, and industry specialists, such as material suppliers,

consultants and construction experts.

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