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Description Since the publication of the first edition ten years ago, significant developments have occurred in the use of admixtures in concrete. Eight new chapters and a full update of the preceding ten chapters bring this book up to date; reflecting the relative advances made in the science and technology of different groups of admixtures.

Concrete Admixtures Handbook - 2nd Edition

This chapter discusses the important aspects of the physical, chemical, durability, and mechanical characteristics of cement paste and concrete that may be influenced by admixtures. Concrete, a composite material made with: (1) cement, (2) aggregates, (3) admixtures, and (4) water, comprises in quantity the largest of all man-made materials.

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Admixture Interactions in Concrete K S.
Ramachandran 1.0 INTRODUCTION Admixtures
confer several beneficial effects on concrete
including reduction in water requirements,
increased workability, controlled setting,
accelerated hardening, improved strength,
better durability, desired coloration and
volume changes.

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Admixtures for Concrete); in the Canadian
Standards Association's admixture standards A
266.1, A 266.2 M78 (chemical admixtures), A
266.4 M78 (guidelines for the use of
admixtures), 266.5 M 1981 (guidelines for use
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Since the publication of the first edition ten years ago, significant developments have

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occurred in the use of admixtures in concrete. Eight new chapters and a full update of the preceding ten chapters bring this book up to date; reflecting the relative advances made in the science and technology of different groups of admixtures. The increased role and development of admixtures in concrete technology is evidenced by a number of conferences, publications, and novel admixtures available in the market place. These developments in the field caused the modification of many chapters in the first edition in order to reflect the advances. Although individual chapters refer to standards and specifications of admixtures, those only interested in the standards or techniques used in investigating admixtures will find the second chapter (Research Technologies, Standards, and Specifications) useful. Admixtures are not as inert as may be presumed. They may chemically interact with the constituents of concrete and affect the properties of the fresh and hardened concrete and its durability. The third chapter deals with these aspects. It was important to devote a chapter to recent attempts in developing new admixtures.

Chemical admixtures are used in concrete mixtures to produce particular engineering properties such as rapid hardening, water-proofing or resistance to cold. Chemical Admixtures for Concrete surveys recent developments in admixture technology,

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explaining the mechanisms by which admixtures produce their effects, the various types of admixtures avail

The two volumes of these Proceedings contain about 200 conference papers and 10 keynote papers presented at the First International Conference on Construction Materials and Structures, held in Johannesburg, South Africa from 24 to 26 November 2014. It includes sections on Materials and characterization; Durability of construction materials; Structural implications, performance, service life; Sustainability, waste utilization, the environment; and Building science and construction.

This comprehensive book containing essential information on the applicability of thermal analysis techniques to evaluate inorganic and organic materials in construction technology should serve as a useful reference for the scientist, engineer, construction technologist, architect, manufacturer, and user of construction materials, standard-writing bodies, and analytical chemists. The material scientists at the National Research Council of Canada have established one of the best thermal analysis laboratories in the world. Various types of thermal analysis techniques have been applied successfully to the investigation of inorganic and organic

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construction materials. These studies have provided important information on the characterization of raw as well as finished materials, quality control, quantitative estimation, interrelationships between physical, chemical, mechanical, and durability characteristics. Information on the application of thermal analysis to construction materials is dispersed in literature and hence the IRC scientists embarked on producing a handbook, the first of its kind, incorporating the latest knowledge available in this field of activity. Almost all important construction materials have been included.

Revised from the 1982 edition. The 1988 market for adhesives and sealants was estimated at \$5.1 billion, with projections for 1995 at \$12 billion. This handbook contains descriptions of some 2200 materials which are currently available to the industry. Arrangement is by category and then by company, the products being listed under the company name and described in the manufacturer's words. Annotation copyrighted by Book News, Inc., Portland, OR

Concrete will be the key material for Mankind to create the built environment of the next millennium. The requirements of this infrastructure will be both demanding, in terms of technical performance and economy, and yet be greatly varied, from architectural

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masterpieces to the simplest of utilities. Modern concrete materials: Binders, Additions and Admixtures forms the proceedings of the three day International Conference held during the Congress, Creating with Concrete, 6-10 September 1999, organised by the Concrete Technology Unit, University of Dundee.

The environmental aspects involved in the production and use of cement, concrete and other building materials are of growing importance. CO₂ emissions are 0.8-1.3 ton/ton of cement production in dry process. SO₂ emission is also very high, but is dependent upon the type of fuel used. Energy consumption is also very high at 100-150 KWT/ton of cement produced. It is costly to erect new cement plants. Substitution of waste materials will conserve dwindling resources, and will avoid the environmental and ecological damages caused by quarrying and exploitation of the raw materials for making cement. To some extent, it will help to solve the problem otherwise encountered in disposing of the wastes. Partial replacement of clinker or portland cement by slag, fly ash, silica fume and natural rock minerals illustrates these aspects. Partial replacement by natural materials that require little or no processing, such as pozzolans, calcined clays, etc., saves energy and decreases emission of gases. The output of waste materials suitable as cement

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replacement (slags, fly ashes, silica fumes, rice husk ash, etc.) is more than double that of cement production. These waste materials can partly be used, or processed, to produce materials suitable as aggregates or fillers in concrete. These can also be used as clinker raw materials, or processed into cementing systems. New grinding and mixing technology will make the use of these secondary materials simpler. Developments in chemical admixtures: superplasticizers, air entraining agents, etc., help in controlling production techniques and, in achieving the desired properties in concrete. Use of waste products is not only a partial solution to environmental and ecological problems; it significantly improves the microstructure, and consequently the durability properties of concrete, which are difficult to achieve by the use of pure portland cement. The aim is not only to make the cements and concrete less expensive, but to provide a blend of tailored properties of waste materials and portland cements suitable for specified purpose. This requires a better understanding of chemistry, and materials science. There is an increasing demand for better understanding of material properties, as well as better control of the microstructure developing in the construction material, to increase durability. The combination of different binders and modifiers to produce cheaper and more durable building materials will solve to some extent the ecological and environmental

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problems.

This classic reference has established the value of petrography as a powerful method for the investigation of concrete as a material. It provides an authoritative and well-illustrated review of concrete composition and textures, including the causes of defects, deterioration, and failure that can be identified using a petrological microscope. This new edition is entirely revised and updated and also greatly extended to take account of new scientific developments and significant improvements in instrumentation and to reflect current laboratory working practices, as well as to reflect new understanding of the performance of concrete and related materials. Now in full color throughout, Concrete Petrography, Second Edition provides case study examples, with appropriate explanatory discussions and practical advice on selecting, handling and preparing specimens. It assists and guides the engineer, the trainee and the experienced petrographer in understanding the scientific evidence that is basic to petrographic analysis and so will lead to more accurate and timely diagnosis and treatment of problems in structural concrete. This book includes: Contributions in specialist areas by internationally recognized experts Explanation of computer techniques as an aid to petrography Full coverage of inspection, sampling, and specimen preparation New

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sections covering recent technological development of equipment Guidance on observation of cement and concrete mineralogy and microfabrics Discussion and illustrative examples of deterioration and failure mechanisms New work and guidance on the determination of water/cement ratio New color illustrations and micrographs throughout Thorough updating of standards, other authoritative publications, and references A fully revised, extended, and updated glossary of optical and other properties

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