

STRONG FOCUS ON SUSTAINABILITY

IN CCSA'S NEW 'FULTON'S CONCRETE TECHNOLOGY'

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FULTON'S

concrete technology

TENTH EDITION

The 10th edition of Fulton's Concrete Technology, commonly regarded as the South African "concrete bible" and globally recognized as a definitive handbook on concrete, was today (June 10) launched by Cement & Concrete SA (CCSA).

The latest edition of Fulton's Concrete Technology comprises 37 chapters and features topics such as materials and mixes, concrete properties, manufacture, site practice, quality control, and testing, as well as special concrete and techniques. It is a hardcover book with a searchable electronic flashcard, available to the public, with members of CCSA enjoying a discounted rate.

Bryan Perrie, CEO of CCSA, says several years of intensive research and coordination preceded the publication of the revised and updated Fulton's Concrete Technology which was last published in 2009. The authors of the different chapters, selected to offer a combination of experienced and young professionals, were drawn from a wide range of backgrounds: academics and researchers, concrete producers and manufacturers, construction materials specialists, and consulting engineers.

"The 2021 'Fulton's contains a wealth of new reference material and – with ten new chapters – represents a significant update on the previous edition. There is, for example, strong emphasis on sustainability – an issue of global concern in all sectors of industry," Perrie states.

He says the knowledge, experience, and insights in concrete technology in the latest issue are directed at South African conditions. The book will be welcomed by concrete practitioners and lecturers in diverse fields and students for prescribed reference work.

The first three editions (1957-1964), become commonly known in the industry simply as "Fulton's," written by Dr. Frederick Sandrock ('Sandy') Fulton, then Director of the forerunner of the Portland Cement Institute, which now has Cement & Concrete SA as its latest incarnation.

Perrie adds: "Subsequent editions of the book were multi-authored and multi-faceted because as concrete evolved into a much more complex material, it became challenging for a single author to deal in suitable depth with all aspects of modern concrete technology. The fact that more chapters than any other in the new edition deal with 'Special Concretes and Techniques' illustrates this technological expansion."

The latest Fulton's edited by Prof Mark Alexander, Emeritus Professor of Civil Engineering and Senior Research Scholar at the University of Cape Town, and a past president of the global body, RILEM (the International Union of Laboratories and Experts in Construction Materials, Systems, and Structures), also Prof Alexander is the author of several respected concrete technology publications. His experience has been widely used in a consulting capacity both here and abroad.

He says the latest edition of the book comes at a time of unprecedented change and challenge globally, including South Africa. "Tremendous demands will be made of professionals in the future to address issues such as sustainability of concrete construction, the impact of climate change, and population growth. These environments make the need for authoritative, relevant, accurate, and up-to-date information on concrete - which remains the world's most used construction material - absolutely vital.

"Sustainability is essential to produce concrete in a manner that meets the population's needs without irreparably damaging the planet. Therefore, the sustainable theme is present throughout the book, with 'Sustainability Focus' in all relevant chapters," Prof Alexander adds.

CCSA members can order a copy of the new Fulton's Concrete Technology by email at info@cemcon-sa.org.za, and non-members can purchase copies from www.bidorbuy.co.za. More details are available from the CCSA Information Centre on telephone 011 315 0300.

