



# **Handbook of Analytical Techniques in Concrete Science and Technology: Principles, Techniques and Applications (Building Materials Series)**

*V.S. Ramachandran, J.J. Beaudoin*

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# Handbook of Analytical Techniques in Concrete Science and Technology: Principles, Techniques and Applications (Building Materials Series)

*V.S. Ramachandran, J.J. Beaudoin*

## **Handbook of Analytical Techniques in Concrete Science and Technology: Principles, Techniques and Applications (Building Materials Series) V.S. Ramachandran, J.J. Beaudoin**

Measuring the long-term durability of new types of concrete and concrete technologies is crucial to their acceptance in the marketplace. This long-needed handbook of analytical techniques provides a complete reference to the cutting-edge procedures used to test today's innovative materials.

Ranging from chemical and thermal analysis, to IR and Nuclear Magnetic Resonance spectroscopy, to Scanning Electron Microscopy, x-ray diffraction, computer modeling and more, the book provides first-hand explanations of modern methods contributed by 24 leading scientists, many of whom actually developed or refined the techniques. The book includes many analytic techniques, applied to a wide range of organic, inorganic and composite materials and additives.

Perfect for practitioners, students, and professional standards writers, the handbook is highly useful for scrutinizing materials in a variety of environments. It takes into account the many factors that affect the qualities of concrete—temperature, pore and pore-size distribution, surface area, and exposure—gathering diverse evaluation methods into one convenient resource.

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