Significance of tests and properties of concrete and concrete-making. This publication is a revision and expansion of Significance of Tests and Properties of Concrete and Concrete-Making Materials (STP 169C) published in 1994.

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The new edition includes revised Maturity Methods to Estimate Concrete Age. Testing field-cured cylinders. The traditional Maturity methods use the fundamental concept that concrete properties are influenced by the characteristics of freshly mixed concrete. An example of these characteristics is the flow time of freshly mixed concrete. The flow time is determined by a test that measures the ability of concrete to flow through a rubber cone. The flow time is then related to the age of the concrete when it is field-cured. The flow time of freshly mixed concrete is directly related to the age of the concrete when it is field-cured. The flow time of freshly mixed concrete is also related to the age of the concrete when it is field-cured. The flow time of freshly mixed concrete is used to determine the age of the concrete when it is field-cured.

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