

“VARIATION IN STRENGTH OF CONCRETE SUBJECTED TO HIGH TEMPERATURE”

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ABSTRACT

The influence of elevated temperatures on mechanical properties of concrete is of very much important for fire resistance studies and also for understanding the behavior of containment vessels, chimneys, nuclear reactor pressure vessels during service and ultimate conditions structures like storage tanks for crude oil, hot water, coal gasification, liquefaction vessels used in petrochemical industries, foundation for blast furnace and coke industries, furnace walls industrial chimney, air craft runway etc., will be subjected to elevated temperatures. So that the variation of compressive strength, performance are some of the important parameters to be investigated when concrete structures are subjected to temperatures.

KEYWORDS: Elevated Temperature, Ordinary Conventional Concrete, Compressive Strength