

MATHEMATICAL MODEL TO CALCULATE PREDICTED COMPRESSIVE STRENGTH AND ITS COMPARISON WITH OBSERVED STRENGTH

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Abstract

Investigation for M-20 grade of concrete to study the compressive strength, by using steel fibre reinforced concrete (SFRC) containing fibers of 0%, 1%, 2% and 3% volume fraction of hook tain. Steel fibers of 50, 60 and 67 aspect ratio are used. A result data obtained has been analyzed and compared with a control specimen (0% fiber). A suitable mathematical model is formed to calculate the predicted compressive strength with the help of Experimental result and governing equation of graph.

Keywords: mathematical equation to predict a compressive strength

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