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Experimental Study on External Strengthening of RC Columns using CFRP Composites

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Abstract:The use of Carbon fiber reinforced polymer (CFRP) materials for structural repair and strengthening has continuously increased in recent years, due to several advantages associated with these composites when compared to conventional materials like steel. This paper presents the results of an experiment at study on the structural behavior of reinforced concrete columns strengthened with carbon fiber sheets and strips in pre-cut grooves. The reinforced columns were strengthened before testing. The main tasks of these experiments were conducted to investigate the effects of additional strengthening of reinforced columns.

Keywords: Carbon Fibre Reinforced Polymer, CFRP strengthened concrete columns, strengthening, confined concrete, buckling strength.

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