

بيانات عن بحث (٦) مقدم للترقية

عنوان البحث (باللغة التي نشر بها) :

The Effect of Long-Term Performance on the Behavior of Strengthened Slabs

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ملخص البحث باللغة الانجليزية

The Effect of Long-Term Performance on the Behavior of Strengthened Slabs

The main goal of this research is to investigate the long-term performance of the strengthened reinforced concrete slabs [deflection, stress-strain, shrinkage strain and creep strain] by using finite element analysis.. A parametric study was done on repaired reinforced concrete slabs using different types of repair at different time intervals to evaluate the efficiency of repaired slab sections for long-term performance, and find which method of repaired was better at different time. The parametric study contains four simply supported slabs by using different type of strengthening, were created four models, the first was a control slab the second is strengthened using new concrete layer without reinforced, the third was strengthened new concrete layer with reinforced and the fourth was strengthened by using carbon epoxy laminated layer attached to the tension side of slab. A comparison between the result was done using the different type of repaired at different time for different load capacity.