

عنوان مقاله:

Evaluation of Current Models for Strength of Bond between NSM FRP and Concrete

محل انتشار:

دومین کنفرانس بین المللی و ششمین کنفرانس ملی زلزله و سازه (سال: 1394)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

Strengthening of reinforced concrete (RC) structures by applying near surface mounted fiber-reinforced polymer (NSM FRPP) method is emerging as a new technique for increasing shear and flexural strength of them. Since this method is new, few experiments concerning the bond capacity have been done. So the number of corresponding relationships is limited and their accuracy is not enough. In this research the relationships existing in the open literature were evaluated using the pull-out test results. Amongst them Zhang's model developed the best performance. The parameters affecting the bond capacity were also investigated. Finally a linear regression model was developed that had better results than the existing models.

کلمات کلیدی:

FRP, NSM, pull-out, bond capacity, strengthening, reinforced concrete

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