

## عنوان مقاله:

A Survey on the Interfacial Properties of Externally Bonded FRP Sheet and the RC Beam Surface

## محل انتشار:

دهمین کنگره بین المللی مهندسی عمران (سال: 1394)

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## خلاصه مقاله:

Retrofitting reinforced concrete (RC) elements has gained a continuous progress in diverse structures in the recent decades. A significant sector of retrofitting technology has been the use of advanced fiber-reinforced polymer (FRP) composites externally bonded to structural members. This paper reviews the concrete-FRP interfacial properties, summarizes the failure mechanisms in FRP externally bonded RC beams retrofitted in flexure and shear. Furthermore, the possible paths of debonding and the affecting parameters on the FRP debonding in RC beams have been represented. In the end, the interfacial stress distribution of the two main stress components (i.e.  $\tau$  and  $\sigma_y$ ), along the FRP sheet have been depicted

## کلمات کلیدی:

fiber-reinforced polymer (FRP) composites, strengthening, interfacial properties, failure mechanisms, debonding modes

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/364313>

