بخشی از ترجمه مقاله

عنوان فارسی مقاله:
تحقیقات آزمایشی بر روی رفتار سطوح مشترک بین بتن - بتن تحت ترکیبی از تکانه های برشی و خمشی

عنوان انگلیسی مقاله:
Experimental research on the behaviour of concrete-to-concrete interfaces subjected to a combination of shear and bending moment

توجه!
این فایل تنها قسمتی از ترجمه میباشد. برای تهیه مقاله ترجمه شده کامل با فرمت ورد (قابل ویرایش) همراه با نسخه انگلیسی مقاله، اینجا کلیک نمایید.
6. Conclusions

An experimental work was carried out in order to study the behaviour of concrete-to-concrete interfaces subjected to combination of shear and bending moment and to analyse the application of the design expressions based on the “shear-friction theory”. The effect of the interface in the shear strength, bending strength and ductility of a beam specimen was also analysed.

Results show that neither the shear strength nor the bending strength of the specimens got affected by the presence of a casting interface. However, the reduced tension strength between the two differently aged concretes, which could be below that of the weakest concrete, lead to a premature cracking along the interface, in the tension zone. This phenomenon was mainly observed in the hogging region where the tension crack occurred firstly along the interface rather than over the support.

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