Shear Strength Estimate of Reinforced Concrete Beam-Column Joints

Chai, Hyee-Dai
Lee, Jung-Yoon

ABSTRACT

An accurate and rational analytical proposal for determining the shear strengths of interior beam-column joints is presented in this paper. The proposed equation is derived using a compatibility aided truss model theory. The accuracy of the proposed equation was checked by comparing calculated shear strength of joints with experimental results reported in literature. The comparison showed that the proposed equation predicted the experimental shear strength of joints with reasonable agreement.