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Effect of Poor Reinforcement Detailing on Reinforced Concrete Frames

Building designed following the new Egyptian code sustain lateral force more than those designed by the earlier ones, as they fulfill all the new code requirement. The aim of this research work is to assess the effect of poor detailing on the beam column connection designed by new Egyptian code subjected to lateral loads. A dynamic analysis is carried out on a high-rise reinforced concrete building using the IDARC2D program. This study shows that the performance of the frame was decreased and damage level was increased when new code provisions related to reinforcement detailing are ignored. Also, the displacement values of the frame designed by the current code but with poor detailing are increased compared to those followed the recommended detailing.