

Evaluation of Traditional Methods in Construction and Their Effects on Reinforced-Concrete Buildings Behavior

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Abstract : Using ETABS software, this study analyzed 23 buildings to evaluate effects of mistakes during construction phase on buildings structural behavior. For modelling, two different loadings were assumed: 1) design loading and 2) loading due to the effects of mistakes in construction phase. Research results determined that considering traditional construction methods for buildings resulted in a significant increase in dead loads and consequently intensified the displacements and base-shears of buildings under seismic loads.

Keywords : reinforced-concrete buildings, construction mistakes, base-shear, displacements, failure

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