

Review on Comparative Static Analysis of Beam-Column Junction

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Abstract: *In a multi-storey building, the beam-column joint is one of the most important regions. Usually the beam-column hinge was considered as a rigid frame. Various researchers have pointed out in recent years that the joint is not stiff. It is now also noted that instead of failure in the beam and column, failure can occur in the joint; therefore, the joint should be considered as a structural member. Indian standards define a joint as part of a column in the depth of the deepest beam that frames the column. In framed structures, the bending moment and shear force are maximum at the joint area. Therefore, the connection of the beam column is one of the failure zones. Among the joints of the beam column, the outer joint is more critical. In this shared working beam column, you should model with ANSYS software for different types of concrete. Voltage and deformation results must be obtained and the optimal model.*

Keywords: Exterior beam column joint, lateral loads, ANSYS

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