

عنوان مقاله:

Analytical and Experimental Studies on Behavior of Beam to Column Connections with Flange Plate under Monotonic Loading

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خلاصه مقاله:

Behavioral study of connections using moment - rotation curve for analyzing different types of connections and also the concept of strength, ductility and rigidity of steel connections are important. One of the most common connections in bending frames of steel structures is beam to column connections with flange plates. A correct perception about structural behavior of beam to column connections and also appropriate knowledge of their force transmission and their behavior in modeling and analysis of the steel structures are essential. In present study, beam to column steel connection with flange plate under monotonic loading, both analytical and experimental would be investigated. The obtained results showed that moment - rotation curves of experimental sample and finite element (F.E.) model are reasonably close to each other. As a result, F.E. method could be an appropriate tool to investigate the behavior of these connections which would significantly decrease number of trial and error approaches

کلمات کلیدی:

Beam to column connection Moment- rotation curve Finite element meth

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