

Behavior Of Semi-Rigid Bolted Cap-Plate Type Connections In Industrial Frames

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Summary

A study was undertaken to capture the behavior and response of cap-plate type moment connections used in industrial buildings. Such connections typically represent the semi-rigid class and therefore their response must be accounted for in the analysis and design. A number of beam-column connections were tested to obtain the evolution of moment-rotation (M- ϕ) curves and to collect information related to the behavior of such connections. With this as a background, the analytical representation of M- ϕ curve has been proposed for cap-plate type connections.

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