

عنوان مقاله:

A Numerical Study on Application of SMA alloys in Steel Connection

محل انتشار:

پنجمین کنفرانس بین المللی پیشرفت های علوم و تکنولوژی (سال: 1390)

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خلاصه مقاله:

One of construction elements concerning to moment connections is end-plate connection. Since ductility of structural members play an effective role in inhibition of energy resulted from seismic loads, in this study, shape memory alloys have been implemented in bolts of these connections and the influence of this alternative on moment behavior of the connection has been dealt with. This replacement is intended to increase connection ductility and to prevention end-plate connection brittle failure. As a result, it will be investigated that applying shape memory alloys, there will be a steel connection that during inhibition of connection ductility and energy, it will be prevented brittle failure of the bolts and it will be improved connection behavior

کلمات کلیدی:

moment connection, memory alloys, seismic behavior

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