

## عنوان مقاله:

An Investigation on the Seismic Behavior of Braced Steel Frames under Vertical Component of Ground Motion

## محل انتشار:

نهمین کنگره بین المللی مهندسی عمران (سال: 1391)

تعداد صفحات اصل مقاله: 6

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## خلاصه مقاله:

In this research the effect of combined horizontal and vertical component of earthquakes on the seismic behavior of braced steel frames was investigated. Seismic behavior has been verified by conduction nonlinear dynamic analysis under the vertical and horizontal earthquakes and horizontal component alone. Three structures with 4, 8 and 12 stories representing low, medium and high braced steel structures selected. The analysis subjected to 3 strong motion records. Results from the analytical study indicated that the inclusion of the vertical component has greatly influence the axial forces in the columns but little effect on the shears and bending moment in the beam

## کلمات کلیدی:

Braced Frame, Vertical and Horizontal Accelerations, Nonlinear Analysis, Seismic Behavior

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/166387>

