

عنوان مقاله:

Seismic assessment of Steel frames by capacity spectrum method

محل انتشار:

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نویسندگان:

Maysam Jalilkhani, - *Zanjan University Structural Engineering Student*

Abdollah Heidari - *Azad University of Zanjan Geotechnical Engineering Student*

Saeed Mohebbi - *Azad University of Tehran Structural Engineering Student*

خلاصه مقاله:

Nowadays, most of researchers prefer to utilize Nonlinear Static Procedures (NSP) in seismic assessment of structures because these techniques have more accuracy and simplicity in comparison with Linear Static Procedures (LSP) and Nonlinear Dynamic Procedures (NDP), respectively. The Capacity Spectrum Method (CSM) due to its simplicity and graphical nature has changed into one of the most popular NSP methods which is widely using in seismic evaluation of different type of structures. The CSM has been modified for many times and each modification has tried to subside one of the shortcomings of CSM. In this paper the latest CSM modification version explains completely and then a comparison is made between the original CSM version in ATC-40 and the Displacement Coefficient Method (DCM). In this way, a steel frame is analyzed by ABAQUS 6.9.1 software capabilities and finally the results compared with one another. It is clearly recognizable that the demand displacement which is estimated by advanced CSM is more reliable.

کلمات کلیدی:

advanced capacity spectrum method, seismic assessment, steel frames

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