

عنوان مقاله:

Effects of Shear Wave Velocity on Scale factors of Records

محل انتشار:

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خلاصه مقاله:

This paper provides and evaluates record's scale factors associated with four classes of soil with different domain of shear wave velocity considering two common scaling methods based on the uniform hazard spectrum (UHS) method. The evaluation has been conducted based on the deviation in structural responses of the models. The assessed scaling methods are the ones which are broadly used by design professionals as well as they are compatible with commonly used performance assessment codes. As well, the records were selected from a very frequently applied list of ground motions. It has been recognized that although by reduction in shear wave velocity in the soil classes the scale factors increased, the amounts of deviation in structural responses are not depended on the class of soil. So, it could be concluded that the reliability of the structural responses is independent from shear wave velocity in the soil class.

کلمات کلیدی:

Soil class, Scale factor, Uniform hazard spectrum, Shear wave velocity, Deviation

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