عنوان مقاله:

SEISMIC HAZARD ZONATION IN TERMS OF SPECTRAL ACCELERATION AT TEHRAN REGION BASE ON ACTIVITY AND SLIP RATES

محل انتشار:

دومین کنگره ملی مهندسی ساخت و ارزیابی پروژه های عمرانی (سال: 1394)

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خلاصه مقاله:

This study aimed to the spectral acceleration hazard analysis and mapping of the earthquake in Tehran metropolitan area on the fault slips rate (SL) and activity rate (AR) of the region, is taken into consideration. Modern seismic design of structures that are unique complexities in seismic areas such as Tehran requires special attention to the nature of the seismicity of the region. Seismic hazard studies examining the approach taken in the area Tehran, however, in none of these studies, a comparison to results based on the analysis of SR, AR and spectral acceleration zoning, has not been dune. Thus, in order to reduce the loss of life and financial, caused by a seismic event in the metropolis, such a study, it is irrefutable. The study includes the identification of seismic sources, seismic parameters and interpretation of paleoseismology results. Then, these parameters were attributed to seismic sources were measured in the region, seismic hazard analysis in a short period, for a grid of points is done. In addition, maps of seismic spectral acceleration for a return period of 475 years, based on SR and AR in the range of Tehran was prepared. Based on the study of paleoseismology has revealed that the number of faults in South and South East Tehran should be considered as a paleoshoreline and, therefore, were excluded from the studies of seismicity. The acceleration parameters of earthquakes in South-East of Tehran, has been much reduced. In addition, a general comparison, it can be stated that the measured acceleration data on SR, up to a period of 0.4 seconds is much higher than the AR. After getting equally results in this period, acceleration of AR will be greater than SR

كلمات كليدى:

Maps of spectral acceleration, activity rate, slip rate, paleoseismology, seismic source

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