عنوان مقاله:

Urban Planning of Kermanshah City Based on the Seismic Geotechnical Hazards

محل انتشار:

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خلاصه مقاله:

The main target of seismic microzonation is to reduce the seismic risk vulnerability. The application of seismic microzonation in urban planning is an effective step towards decreasing hazards and damages of earthquakes. In this research, the risk of earthquake occurrence in Kermanshah has been taken into account in the form of maximum acceleration and spectral acceleration values for the three return periods of ۴۷۵, ۹۷۵ and ۲۴۷۵ years. It was found that ground accelerations at bedrock level increase from north to south of the city. Next, geophysical studies have been done to produce the fundamental frequency map of the ground. They show that the alluvium layer in most parts of Kermanshah is rather thin but at the central extend of the city. The fundamental frequency map is also used to assess the determination of land usage in Kermanshah for future, based on avoiding resonant hazard for the buildings .as built according to national regulations

کلمات کلیدی:

Uniform Hazard Spectra, Seismic Microzonation, Ambient microtremor, Seismic Geotechnical hazard, Urban Planning