



Deterministic Seismic Hazard Assessment of Center-East IRAN (57 - 60o E , 33 - 35o N)

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Deterministic seismic hazard assessment has been performed in Center-East IRAN, including FERDOWS and adjacent regions of 150 km, is selected for the deterministic seismic hazard assessment. A uniform catalog of earthquakes in the region, including historical earthquakes and instrumental earthquakes is provided. A total of 22 potential seismic source zones in the region delineated as area sources for seismic hazard assessment based on geological, seismological and geophysical information. After determination of maximum length of seismic sources and minimum distance, for every seismic sources until site(FERDOWS) and determination of maximum magnitude for each source, then using the Donovan' 1973a attenuation relationship. In Ferdows, according to results obtained using Donovan' 1973a attenuation relationship, maximum acceleration is estimated to be 0.44g, that maximum magnitude of this source is $M_w = 7.4$ related to the movement of FERDOWS fault.