عنوان مقاله:
Loss Modeling for Yolv Sarpol-e Zahab Earthquake


تعداد صفحات اصل مقاله: 12
نويسندكان:
Parisa Shahbazi - International Institute of Earthquake Engineering and Seismology (IIEES), Tehran

Babak Mansouri - International Institute of Earthquake Engineering and Seismology (IIEES), Tehran


#### Abstract

خلاصه مقاله:  vastly the western part of Iran especially the Kermanshah province. The death toll was at least $9 \mathrm{r}_{\mathrm{o}}$, the total number of injured people just the day after the earthquake was orfes and around Voooo people were left homeless. This study aims to estimate the distribution of physical damages to the building stock using our domestic model and to calculate and validate the associated casualties under Sarpol-e Zahab earthquake event using a global model with some modifications. This region has been chosen because it has suffered major losses due to the recorded high PGA value of $\varepsilon \wedge \kappa$ gal and also due to the fact that some adequate field surveys and documentations were completed for this event. Since accurate building distribution maps are not available or accessible, to develop a spatial building database, a dasymetric mapping technique has been employed by merging a grid world population distribution map and the national census data. OpenQuake platform is utilized to simulate the ground motion field and to assess the physical damages and human loss. The results were compared with the actual observed data and showed relatively a


.proper match
كلمات كليدى:
Sarpol-e Zahab earthquake, Seismic Hazard, Lossmodeling, Physical damage, Human loss, OpenQuake


