

عنوان مقاله:

MICROTREMOR AND SHEAR WAVE VELOCITY MEASUREMENTS IN TABRIZ TO USE IN SEISMIC MICROZONATION

محل انتشار:

ششمین کنفرانس بین المللی زلزله شناسی و مهندسی زلزله (سال: 1390)

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خلاصه مقاله:

To investigate the effect of soil conditions in different parts of the city, a number of 21 stations were selected for measuring microtremors and the shear wave velocities. The Fourier analysis, based on the H/V spectral ratio (H :Horizontal and V :Vertical), was made and the natural period of the ground surface at each site was determined by geometric average of the two spectra of EW and NS directions. For shear wave velocity measurements, a data logger accompanied with 3 geophones were used and waves generated by hitting a hammer were recorded and shear wave velocity and then the natural period of ground surface determined using calculations of refraction wave survey method. The natural periods of the ground surface determined by the two methods of microtremor measurements and refraction wave survey at the 21 stations are compared with each other and with results of a research done before in Tabriz city. The comparisons clarify accuracy of shear wave velocity measurements but not good results from microtremors because of noises inserted in these tremors.

کلمات کلیدی:

Seismic Microzonation, Site Effect, Microtremor, Shear Wave Velocity, Tabriz City

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