

A STUDY ON EARTHQUAKE HAZARD MAPPING AND A SHEAR WAVE VIBRATORY EXPLORATION TECHNIQUE FOR AN ACTIVE FAULT (1)

Abstract : This paper describes results of geological interpretation and shear wave velocity structure for earthquake motion hazard mapping of active faults. We conducted air-photo interpretation of geomorphic elements, shear wave vibratory exploration, seismic data processing, and geological interpretation using borehole databases. The interpretation and the processing revealed geological structures and shear wave velocity structure up to 500 meters of the depth around active faults.

Key words : active fault, air-photo interpretation of geomorphic elements, shear wave vibratory exploration, shear wave velocity structure, geotechnical property database