Evaluation of vertical seismic motions simulated by the stochastic green function method

Masanori Horike [1]

[1] Dept. of Architecture O.I.T.

An aim of this presentation is to evaluate verical seismic motions by the stochastic green function method. It is done by the comparison of simulated ratios of maximum horizontal motions to maximun vertical motions with recorded ones. Features of recorded ratios are as follows. The ratios are scattered in the range factors 1 to 4 in short epicentral distance below 20 km, and are concentrated in a small range between 1 and 2 in long epicentral distance above 20 km. The ratios of simulated motions show a similar trend against the epicentral distance. However, their range are wider then the ratios of recvorded motions. This indicates that the effect of scattering is incorporated in the simulation method more strongly.