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## Comparison of H/V spectrum ratios between shear waves and coda waves

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Only horizontal incident motions are taken into account in a conventional aseismic structural design,. However, seismic response of structures is quite different if vertical incident motions are incorporated. In this study we examine the possibility of use of the horizontal-to-vertical (H/V) spectrum ratios of coda wave to simulate vertical strong ground motions.

We compare the average and standard deviations of coda wave with those of shear waves. Seismic data used in this study were obtained at three sites in Kansai area. The conclusions drawn are as follows. The standard deviation of coda H/V spectrum ratios is almost same as the of shear waves for three sites. The averages of coda H/V spectrum ratios are similar to those of shear waves at consolidated sediment sites.