

Site Amplification Factors in the Waterfront Area of Shimizu City

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Besides the evaluation of the source and the path effects, the evaluation of the site effects is important in the strong motion prediction. In the potential near-source region of the Tokai Earthquake, however, information on the deep soil structure is sparse and, therefore, site amplification factors computed based on such information are not necessarily reliable. On the other hand, there are some strong-motion observation sites in the same region. At these sites, more reliable site amplification factors can be retrieved from the records. In this article, the site amplification factors obtained using the spectral inversion technique is presented. The earthquake damage to the structures of Shimizu Port during the two earthquakes in the 1930's is also discussed.

