

A Theoretical Method for Strong Ground Motion Prediction at Broadband Frequencies

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We propose a theoretical method for predicting strong ground motions for M8-class inter-plate earthquake. In this method, we combine theoretical methods of a kinematic source model considering the fling step (Hisada and Bielak, 2003), the k-squared model considering directivity pulses by Hisada (2000, 2001), and a stochastic Green's function method for short-period ground motions. We demonstrate usefulness of this method using various examples.