

Simulation of strong ground motion using dynamic rupture model: Effect of the stress in the shallower part of the fault on the PGV

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Strong ground motion simulation generated from shallower strike slip fault by Inoue and Miyatake(1998) gave the extremely high peak ground velocity along the fault. This is the case when the stress drop is uniformly distributed on the entire fault. In shallower part of the crust(<2km), however, the high stress is not considered to apply because of the soft sediment. The frictional parameters also suggest the stable sliding. The present paper investigate the effects of these conditions on the peak ground velocity.