

## An approximate expression of slip rate function, part 4 the 2004 Chuetsu earthquake.

# Takashi Miyatake[1]; Takeshi Kimura[1]

[1] ERI, Univ. of Tokyo

Nakamura and Miyatake(2000) had proposed an approximate expression of the slip rate time functions on the basis of the dynamic rupture model simulation. In the present paper, We apply this to the strong ground motion simulation of the 2004, Chuetsu earthquake.

In order to fix the slip rate time function at each point on the fault, we needs four parameters, i.e., peak slip rate, final slip amount, rise time and Dc. first three parameters are estimated by using a dynamic rupture model (see. Kimura, T. et al, Dynamic rupture process of the 2004 Mid Niigata prefecture earthquake). The parameter, Dc, is assumed to be 10 or 20cm. The resultant approximate time functions fit those of dynamic model well.