

Dynamic simulation of Chi-Chi earthquake in Taiwan

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Date : 2018/11/28

Abstract

We have developed dynamic earthquake simulation technique on 3DEC (3 dimensional Distinct Element Code) platform. In order to verify the technique and understand the capability and maturity of our technique, Chi-Chi earthquake was selected as a target to compare the synthetic results and observation data.

In addition, this study introduces a parallel review from external experts (National Central University). To ensure the rationality and correctness of the verification, five parallel reviews were held during the research.

The results show that our dynamic earthquake simulation technique could correctly evaluate seismic behavior and source mechanisms. The technique is applicable and reliable