

## Seismograms synthesis including DC component for 3-D fault system in a layered medium by the discrete wave-number method

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In this study, we develop computer codes to synthesize seismograms for a three-dimensional finite fault system in a layered medium by the discrete wave number method. We obtain seismograms for two fault models (strike and dip slips). Results are in good agreement with previous studies such as Bouchon (1979). We focus the accuracy and stability of our computational scheme, particularly the DC component which is evaluated precisely by recent GPS observation.