

Research regarding stability of earth-fill-dam under large scale earthquake condition (Part 1)

[Point]

Earth-fill-dam is consisted with only soil based materials, which is based on soil ground, therefore, the seismic behavior is complicated, as the result, and there are many unclear factors of it. In this research, earth-fill-dam damage samples survey, clarify seismic behavior of earth-fill-dam using centrifuge load model test, and propose seismic displacement amount prediction method of earth-fill-dam. Then, we clarify the position of current design method based on the quake coefficient method.

Keyword : earth-fill-dam, centrifuge load model test, slope stability analysis, Newmark method, effective stress analysis