

Determining the effect of complex control works on landslide movement and design of effective landslide control measures

Abstract : There are a few cases where combined use of pile works and anchor works for restraint works of landslides. But there are no standards of planning method in case of combined use. And restraint mechanisms under combined use are not cleared. This study seeks for the mechanisms and establishes the rational planning methods in case of combined use of restraint works. In this study, we evaluated the mechanisms and share ratio of restraint stress made use of FEM models which reproduced centrifuge model test. Then, we carried out parametric analysis to grasp what parameters are more effective for share ratio of restraint stress. And finally, we made the draft flowchart for planning of combined use of pile works and anchor works.

Keywords : restraint pile works, anchor works, complex control works, ratio of restraint stress