

Research method regarding rock slope and test research regarding monitoring

[Point]

In this test research, we applied 3-D geomorphometry and geophysical exploration test methods as effective research methods of discontinues surface in rock and stress state, to rock slopes, and developed rock research method using spectrometer and air tracer test. As a result, by using 3-D geomorphometry, VSP logging and refraction seismic research, we could grasp topological and geological conditions more effectively than using current methods. In the research by spectrometer, we found that rock condition can be visualized. We also found that the air tracer test makes possible to estimate split continuity and loose range. Regarding the air tracer test, by analysing tracers' moving distance and moving time, as well as tracers' out flow amount and concentration rate, we clarified that it is possible to estimate stability of rocks.

Keyword : rock slope , crack , research method , air tracer test