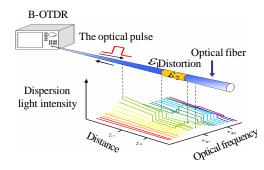
Monitoring Method of Slope Behavior by Optical Fiber

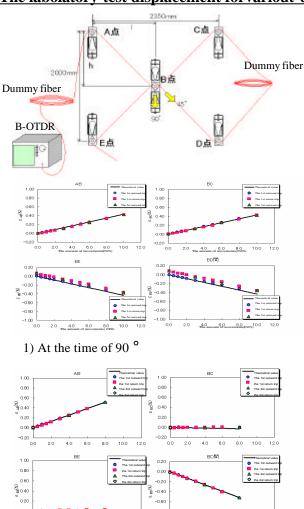
The feature of the optical fiber sensor (B-OTDR)

- It is easy to take the influence by temperature into consideration.
- it is measurable in field or a line.
- Measurement time is about 10 minutes from several minutes.
- •A power supply is unnecessary in the spot and remote maintenance can be performed.

Monitoring concept of the optical fiber sensor

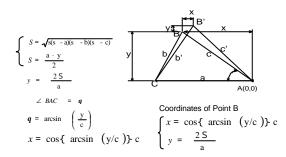


The labolatory test displacement forvariout direction

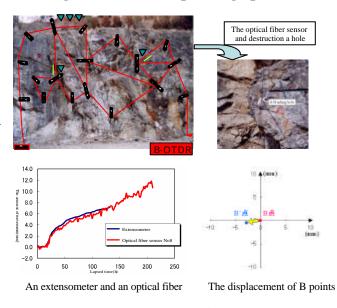


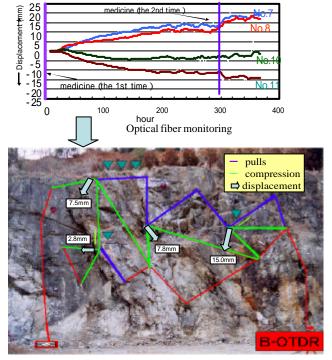
2) At the time of 45 $^{\circ}$

The dicision method of two dimensional moving location



Monitoring of rock rock slope using optical fiber





Monitoring result