A Big Earth Data Platform for Three Poles

**Acoustic emission data of four point bending test of anti slide pile on high and steep slope in Tibet**

1、Description

Four point bending failure tests (bending failure and shear failure of pure reinforced anti slide pile; bending failure and shear failure of prestressed anti slide pile) were carried out on four anti slide piles with different structures, and the whole failure process was monitored by acoustic emission. The monitoring equipment is the German eight channel vallen acoustic emission monitor, and seven sensors are arranged to monitor the damage of piles in the whole area. The collected AE data mainly include amplitude, energy, ring count, frequency and other key AE indicators. By studying the characteristics of acoustic emission signals in the whole process, we can get the acoustic emission characteristics of anti slide piles in different stages and different failure forms, establish the damage model, and provide a feasible scheme for the prediction and early warning of structural failure.

2、Keywords

Theme：AE data,real data,Others,Earth SurFace Processes,Acoustic emission,figures of experiments data for tensor CSAMT,Acoustic emission,landslide  
Discipline：Terrestrial Surface,Others  
Places：WuHan  
Time：2021

3、Data details

1.Scale：None

2.Projection：

3.Filesize：50.84MB

4.Data format：None

4、Space scope

|  |  |  |
| --- | --- | --- |
| - | north：31.22 | - |
| west：113.41 | - | east：115.05 |
| - | south：29.58 | - |

5、Time frame:2021-10-24 16:00:00+00:00--2021-12-02 03:59:59+00:00

6、Reference method

References to data:

JIANG Qinghui . Acoustic emission data of four point bending test of anti slide pile on high and steep slope in Tibet. A Big Earth Data Platform for Three Poles, doi:10.11888/Terre.tpdc.2721942022

References to articles:

7、Supporting project information

8、Data resource provider

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