

SAPNOLM – A SOFTWARE PACKAGE FOR LANDSLIDE ANALYSIS

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A software package for landslide analysis is developed by a team in Peking University and cooperated with CIMNE. The major capacity and features are as follows.

- 1) Adaptive mesh generation during crack extension of geo-body with initial cracks;
- 2) Several nonlinear material constitutive models and material softening functions;
- 3) Implicit and explicit static and dynamic solver;
- 4) 2D and 3D seepage analysis;
- 5) Both PC and parallel computing versions are available;
- 6) Capacity: more than 20 million tetrahedral elements on Tianhe 1A machine.

The target of this package is to analyze the practical engineering problem and try to answer when the instability will be happened. This paper is an introduction of the architecture, features and algorithms of the package.

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