Activa Netcom & Energy Systems

Cable frame slope too steep

Overview

Cable anchors provide active and reliable stabilization for slopes where traditional methods may fall short. When designed and installed properly, they offer long-term resistance against sliding forces, especially in steep, deep-cut, or heavily loaded slopes. By establishing a calculation model for a high and steep slope, the changes of displacement of slope foot and increment of force on the cables under different prestresses were calculated. Such slopes are inherently vulnerable to instability due to gravity forces, unfavorable geological conditions, weathering, and groundwater. Cable anchors, also known as prestressed ground anchors or tieback anchors, are a critical component of modern slope stabilization systems, particularly in deep-seated or high-cut slopes.

Article Content

Investigation of dynamic responses of slopes in various anchor cable ...

For the first time, the effects of different anchor cable failure modes on the dynamic responses of slopes, including the axial force on the anchor cables, bending moment on the frame

Construction Safety & Steep Slope Construction Quality Consensus ...

2.0 HAZARD ASSESSMENT 2.1 In pipeline construction, steep slopes and other types of terrain may be hazardous and have the potential to greatly impact the safety of personnel and equipment, as well

Reinforcement Mechanism and Optimisation of Reinforcement

Using prestressed anchor cables is one of the most common approaches for reinforcing slopes. By establishing a calculation model for a high and steep slope, the changes of displacement

Optimal design of anchor cables layout and length for slope ...

To address this issue, an optimization technique for determining the optimal cable layout and minimum cable length was proposed based on the safety factor of the slope.

Stability analysis of slopes reinforced with anchor cables and optimal ...

Based on assumptions of stresses on a slip surface, this work proposes a new limit equilibrium (LE) method to analyse the stability of slopes reinforced with anchor cables.

Construction Safety & Steep Slope Construction

Provide and/or confirm that profile including the slope degree or grade percent along pipeline alignment is prepared. Request and review the Contractor''s Steep Slope Construction Plans to include

Optimization of Cable Anchor Layouts for High and Steep Slopes

Optimization of cable anchor layouts is a critical aspect of stabilizing high and steep slopes. By carefully considering anchor geometry, capacity, ground conditions, and construction

The Half Dome Cable Ascent: 10 Survival Tips

Yosemite Hikes Home » Yosemite Valley » Half Dome » Cable tips The Hazards of Half Dome: Surviving the Cables The approach to Half Dome is steep and difficult. The last 400 vertical feet (130

Predicting load path and tensile forces during cable yarding ...

Cable yarding systems constitute an adapted solution for steep-slope harvesting in mountain forests. However, it requires many specific skills for both forest managers and operators.

If the slope is too steep to operate a boom lift, just stack

If the slope is too steep to operate a boom lift, just stack wood under the tires. This thread is archived New comments cannot be posted and votes cannot be cast 11

Experimental and numerical investigation on the seismic response of ...

A large-scale shaking table test and a series of numerical simulations were performed to clarify the seismic response of the slope reinforced by frame beam and anchor cable by applying

Optimal design of anchor cables for slope reinforcement based on stress ...

Slope reinforcement using anchor cables is modeled by surface loading, i.e. different distributions of surface loading represent various reinforcement schemes. Optimal reinforcement

Improved analysis method for frame beams with prestressed cables in ...

This approach not only provides a unified and theoretically sound model for slope–foundation interaction but also enhances the applicability of beam-on-elastic-foundation theory

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: https://www.activa.net.pl
Email: sales@activa.net.pl
Phone: +48 662 748 193
Address: ul. Cybernetyki 7B, 02-677 Warsaw, Poland

This document is for informational purposes only. Specifications subject to change without notice.