

◆ Research Paper

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Study on stability of landslide at different moisture content in northern slope of Bailu tableland

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Abstract: In this paper, Phase2 software is used to simulate six groups of natural loess specimens in the northern slope of Bailu Plateau landslide area. The effective steady-state shear strength of loess specimens under different moisture content (6%, 11%, 21%, 26%, 30%, 32%) is simulated. We analyzed the stress and displacement, and we used residual thrust method to calculate the stability of sliding surface at different moisture content. The stability of the northern slope of Bailu tableland is analyzed at different moisture content. The "9.17 northern slope landslide of Bailu tableland" is summarized. The comprehensive evaluation of the northern slope landslide of Bailu tableland is carried out, the paper analyzed treatment measures of landslide.

Key words: Landslide in northern slope of Bailu tableland; Residual thrust method; "9.17 landslide in northern slope of Bailu tableland"; Stability



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