

THE STUDY ON THE SLOPE STABILITY PROBLEM BY ROCK MECHANICAL SYSTEM STABILITY OF MOTION

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Abstract

In this paper, five types of slope failure was presented, based on the theory of rock mechanical system stability of motion, of which the compatibility continuous deformation slope is described, its stability analyzed and the criterion deduced, authors point out that general stiffness matrix is the control variate of slope system, at the same time the affect factors is probed for the control variate, the affects factors are the geomatric behavior for the system structral and the mechanical parameter. In the end people can adjust the control variate to adjust the rock mechanical system and strength the system stability as well as prevent lanslide.

Key Words rock-mechanics system, the stability of motion, landslide, instability

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