

# INVESTIGATION OF SLOPE FAILURE AND PREVENTIONS

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## ABSTRACT

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Slope failures are deal with typical slope instabilities encountered in natural and man-made slopes. Slides of the rotational and translation type are generally amenable to one of the simple stability analyses, provided the geometry, soil strength and pore pressure conditions can be satisfactorily defined. It is rare to be able to confidently analyze other types of instabilities such as flows, spreads, or falls, although observational probabilities techniques engineer and engineering geologist.

Some difficulties arise in terminology of types of failures. This is not surprising since slope stability is a subject of interdisciplinary interest. The selection of material for earthen embankments and the detail construction control on the placement and compaction of the remolded soil lead to a relatively homogeneous soil mass. It is more likely that the type of instabilities will be a rotation or shallow translational failure.

Natural slope however will fail in a manner dictated by the geological features of the deposit as well as the strength and geometry of the slope. Clearly, the latter situation can be very complex and has led to very detailed studies of the numerous types of failures which have been observed.

Four information, in this project report only briefly introduce the analysis methods of slope stability since the project is focus on the theory of slope failure and as well as the slope failure prevention methods.