

A MODEL-TEST OF THE FAULT STRIATION ANALYSIS METHOD IN LANDSLIDE ENVIRONMENT

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Fault striation analyses were performed in different types of landslides in saprolites and one embankment in different regions in Brazil. Failure surfaces included plane-cylindrical slides and more complex rupture surfaces. One of the slides was monitored with a daily bench mark survey to determine topographically the displacement vectors. Failure surfaces were mapped as also their respective striae using current geological field techniques. The data were analysed using procedures dictated by the Angelier method and similars. Data showed to be consistent and indicate a possibility to follow as eventually preview the kinematics of starting slides as also better understand their dynamics. On the other hand, the obtained results also allowed to better understand the limitations of the used fault striation analyses .