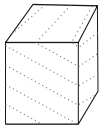


Slope failures in permafrost rocks – mechanical analysis of frozen and unfrozen anisotropic rock

MOTIVATION

frozen



isotropic appearance



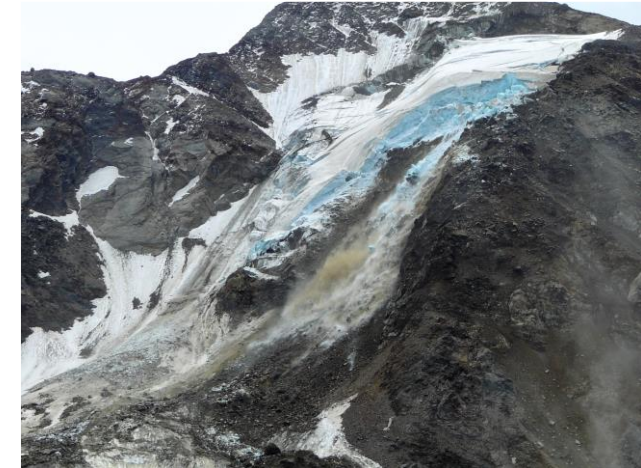
unfrozen



anisotropy activated

Large rock mass failures are often structurally controlled.

Can anisotropic rock properties be „deactivated“ by permafrost and „activated“ again when unfrozen ?



CASE SITE: Bliggspitze rock-ice avalanche in 2007; Kaunertal, Tirol

METHODS: Lab test: UCS, tensile strength, p-wave velocity

Language German or English; BSc thesis



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