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frozen sand in direct shear. A series of direct shear box tests were performed in a cold room using saturated frozen fine sand samples with a wide range of sand volume fractions. The dependency of the strength and dilatancy behaviour on the temperature, normal stress and strain rate are discussed on the basis of the experimental results. It was

Stress-dilatancy behaviour of frozen sand in direct shear

The dilatancy behavior is often detected in previous direct shear or triaxial compression

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tests and the larger shear zone and more roughness within frozen soils derived from ice cementation are considered to contribute to the more apparent dilatancy behavior, however, minimal guidance or data on details is provided (Chamberlain et al., 1972; Da Re et al., 2003; Yasufuku et al., 2003; Lai et al ...

Stress Dilatancy Behaviour Of Frozen Sand In Direct Shear

The dilatancy behavior of the frozen soil under long-term cyclic loading is apparent in contrast to unfrozen dense sand or stiff clay. No initial volume compression related to frictional sliding is observed during plastic shear strain accumulation and the dilation due to shearing takes place right from the beginning of the tests.

Experimental investigation on dilatancy behavior of frozen ...

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Stress – strain and dilatancy behaviour prediction model Stress – strain behaviour prediction model. TCGM is an artificial engineering material compacted from soil particles with different sizes, which contains a large number of internal defects (e.g., cracks, joints, and voids).

Stress Dilatancy Behaviour Of Frozen Sand In Direct Shear

Stress-dilatancy behaviour of frozen sand in direct shear However, minimal guidance or data regarding the dilatancy of frozen soils and its effect on the stress-strain response have been reported (Chamberlain et al., 1972, Da Re et al., 2003, Lai et al., 2010). The mechanical behavior of frozen soils is highly sensitive to the phase composition of

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perspicacity of this stress dilatancy

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However, minimal guidance or data regarding the dilatancy of frozen soils and its

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effect on the stress-strain response have been reported (Chamberlain et al., 1972, Da Re et al., 2003, Lai et al., 2010). The mechanical behavior of frozen soils is highly sensitive to the phase composition of ice/water resulting from pressure and temperature.

Investigation of unsaturated frozen soil behavior: Phase ...

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Fig. 1. Stress-strain behaviour of dense sand

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in plane compression (a) at low stress and (b) at high stress (Barden *et al.*, 1969) sands. In particular, the explanation of ‘ true cohesion ’ as a by-product of dilatancy in over-consolidated clays is particularly fruitful (Rowe, Oates & Skermer, 1963).

The strength and dilatancy of sands
A dilatancy prediction equation is then developed by taking the deviatoric stress as the rate of energy consumption. The effect of freeze – thaw cycles on the mechanical behaviour of CGM is fully incorporated in the degradation of the elastic modulus, peak, and residual strengths in the current model.

A damage-softening and dilatancy prediction model of ...
Experimental results indicated that the temperature and initial water content determine the shear stress properties and dilatancy types of ice – frozen clay interface.

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The shear stress exhibits softening behavior at the temperature of -3°C and the softening behavior decreases with increasing of temperature.

Experimental investigation on shear characteristics of ice ...

Both the deviator stress at the phase transformation state and the maximum dilation ratio are higher under a lower temperature given constant confining pressure. Ice cementation and pressure...

(PDF) Investigation of unsaturated frozen soil behavior ...

As explained above, it is envisaged that the recovery of the frozen energy in an RVE occurs when the magnitude of the applied stress has reduced sufficiently to enable the trapped, compressed grains to expand and induce grain rearrangement, which at the continuum level is manifested by dilative

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The concept of stored plastic work or frozen elastic ...

The rheological behaviour of frozen soils depends on a number of factors and is complex. Stress and temperature histories as well as the actual composition of the frozen soil are only some aspects that have to be considered when analysing the mechanical response. Recent improvements in measuring methods for laboratory inves-

The Rheology of Frozen Soils - Complex Fluid

The frozen loess exhibits prominent dilatancy behavior under low confining pressures. When the stress level exceeds the long-term strength, the mean dilatancy coefficient has a tendency to constant value in stable creep stage. The parabola-shape strength loci of frozen loess in mean stress-

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effective stress space were determined experimentally.

Multiaxial creep of frozen loess -
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The dilatancy under constant normal stress increases with shear deformation and does not level off at the end of this test. The dilatancy decreases with the increase of normal stress. (3) Temperature has a marked effect on the mechanical behavior of frozen rock-soil mixture. The peak shear strength increases obviously with decrease of temperature when temperature is relatively high.

Shear Behavior of Frozen Rock-Soil Mixture
Highlights • A series of long-term cyclic triaxial tests on frozen silty clay were conducted. • The accumulation behavior of plastic shear and volumetric strain is studied. • The dilation was derived by the

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well-accepted mechanisms in triaxial condition. • The dependence of frozen soil dilation on stress measures is not pronounced. • A state-dependent dilation law was proposed to explain the evolution of dilation. Abstract An interesting and common feature of frozen silty clay cyclic behavior ...

Experimental investigation on dilatancy behavior of frozen ...

Experimental results have shown very different stress – dilatancy behavior for sand under loading and unloading conditions.

Experimental results have also shown significant effects of inherent anisotropy. In this article, a micromechanics based method is presented, by which the stress – dilatancy relation is obtained through the consideration ...

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