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Cyclic Direct Simple Shear Testing

The GDS

Electromechanical

Dynamic Cyclic Simple

Shear Device

(EMDCSS) is for simple
shear testing, which

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can be upgraded to direct shear. It is capable of carrying out dynamic cyclic tests from small strain (0.005% shear strain amplitude) to large strain (10% shear strain amplitude), as well as extremely accurate quasi-static testing.

GDS Electro-Mechanical Dynamic Cyclic Simple Shear

...

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Cyclic Direct Simple Shear Load Frame. ShearTrac II-DSS. The ShearTrac II cyclic direct simple shear (CDSS) system is a universal shear system capable of performing the consolidation, static and cyclic direct simple shear phases under full automatic control.

Cyclic Direct Simple Shear, Cyclic DSS Test Equipment ...

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Simple Shear
Volume 40, Issue 3
(May 2017) Cyclic
Direct Simple Shear
Test to Measure Strain-
Dependent Dynamic
Properties of
Unsaturated Sand
(Received 11 June
2016; accepted 6
January 2017)

Cyclic Direct Simple Shear Test to Measure Strain ...

The variable direction
dynamic cyclic simple
shear system

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Simple Shear
(VDDCSS) allows
simple shear to be
performed in two
directions, rather than
the standard single
direction.

**Variable Direction
Dynamic Cyclic
Simple Shear
Testing**

The cyclic simple shear
is a plane strain
device. The shear
strain is induced by
horizontal movement
at the bottom of the

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sample relative to the top. The diameter of the sample remains constant, therefore any change in volume can only be as a result of vertical movement of the top platen.

Cyclic simple shear , Soil mechanics testing equipment

...

Within this context, this paper describes the preliminary results from a series of

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undrained cyclic Direct
Simple Shear (DSS)
tests performed on
specimens prepared
with a natural clean
sand retrieved from
Christchurch, as part of
a broader testing
programme which will
be extended to include
also silty sands and
stratified silt-sand
specimens.

**Undrained cyclic
direct simple shear
testing of ...**

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Michael Bulley a QA & Test Engineer at GDS Instruments gives an overview of GDS' Electro-Mechanical Dynamic Cyclic Simple Shear Apparatus. More technical vid...

Introduction to Electro-Mechanical Dynamic Cyclic Simple Shear

The constant volume condition is equivalent to the undrained condition for fully

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saturated specimens. Cyclic direct simple shear testing with truly undrained conditions (restricting pore water flow from and into the specimen) can be performed using some simple shear devices, but is beyond the scope of this standard.

2.

ASTM D8296 - 19 Standard Test Method for Consolidated ...

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Simple Shear Testing (CycDSS) Test

The cyclic simple shear apparatus, used for CycDSS tests on undisturbed or reconstituted soil samples, was designed and built by GDS Instruments in UK. The CycDSS tests are performed under constant volume conditions according to the ASTM D6528 norm.

Laboratory Testing

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Equipment and Procedures | MEG ...

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SYNOPSIS An apparatus capable of direct shear type and simple shear type testing of interfaces between soil and structural materials is developed. A series of monotonic and cyclic tests are conducted at the interfaces between dry sand and a rough.

Simple Shear Versus Direct Shear Tests

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testing, is performed by applying cyclic shear stresses to a sample experiencing an initial applied shear stress to reproduce □sloping ground□ conditions (or similar stress conditions) (cf., Fig. 1).

Use of Cyclic Simple Shear Testing in Evaluation of the ...

BACKGROUND The NGI direct simple shear

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(DSS) apparatus was developed in the 1960's by Landva and Bjerrum and has since then been extensively used both at NGI and by others throughout the world. Simple shear testing is relevant and useful in the investigation of stress-strain-strength relationships for a range of soil types.

Direct simple shear test - DSS

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Bidirectional Cyclic
Direct Simple Shear,
BCDSS Testing Load
Frame, Apparatus For
Test Standards ASTM
D6528, ASTM D8269

Bidirectional Cyclic Direct Simple Shear Test Equipment ...

The ShearTrac II-DSS
CY system is a
universal shear system
capable of performing
the consolidation,
static and cyclic direct
simple shear phases

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under full automatic control. This system is of the type developed at NGI in the mid 1960's. The DSS test generates a fairly homogeneous state of shear stress throughout the specimen, which provides initial stress condition, stress path, and deformation configuration that models numerous field loading conditions more closely than any

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other strength ...

Testing Of A
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**FULLY-AUTOMATED
CYCLIC SIMPLE
SHEAR SYSTEM -
Advanced Soil ...**

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models for liquefiable
soils have limitations in
their ability to model
all the details of
behaviors that are
important to the... |
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(PDF) Validation

**Protocols for
Constitutive
Modeling of ...**

Variable Direction
Dynamic Cyclic Simple
Shear Product Code :
VDDCSS The VDCSS
(Also known as Bi-
directional) allows
direct simple shear to
be performed in two
directions, rather than
the standard single
direction. This is
achieved by having a
secondary shear

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actuator that acts at 90 degrees to the primary actuator.

**Variable Direction
Dynamic Cyclic
Simple Shear /
VDDCSS ...**

A large number of undrained or constant volume cyclic simple shear tests have been conducted to investigate the cyclic responses of soils, including liquefaction, degradation of both

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shear stiffness and the
damping ratio, and
effective normal
stress,,,,.

**Cyclic volumetric
strain accumulation
for sand under ...**

Firstly, I have tried to
simulate cyclic simple
shear test from
Shahnazari & Towhata
(2002), Fig. 5, on
Toyoura Sand. It is in
the range of medium
strains, up to 3%. The
simulation looks really

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good (see attached pdf file). The sample contracts systematically with cycles thus the stiffness increases as per the experiment. Note contraction is ...

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