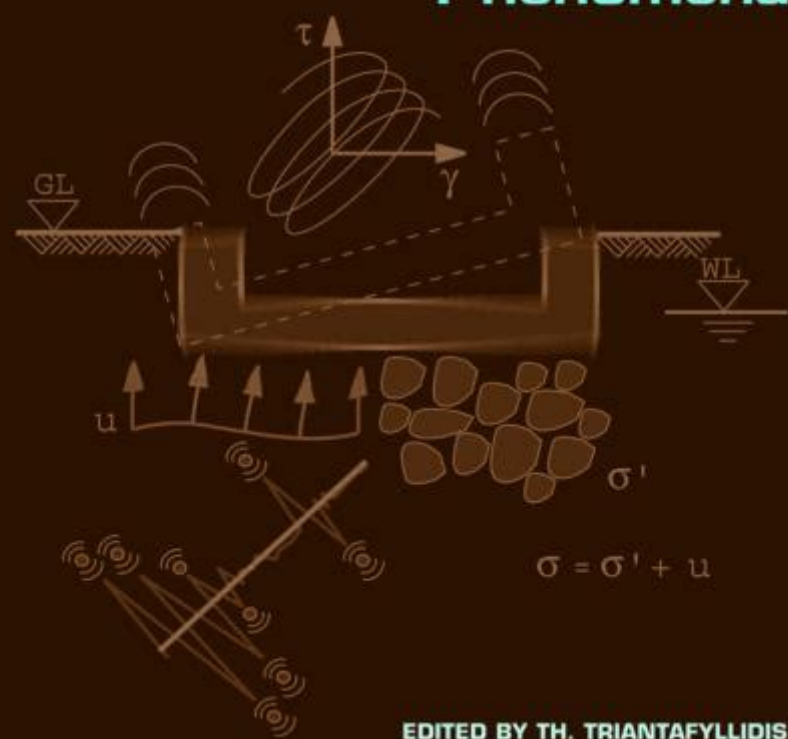


Cyclic Behaviour OF Soils AND Liquefaction Phenomena



EDITED BY TH. TRIANTAFYLIDIS

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This can be considered as the second stage in the cyclic behaviour of soils. During this stage the induced cyclic shear strains would lead to strain softening, particle structure breakdown, pore pressure buildup and with rapid deterioration of stress-strain-shear strength characteristics up to the plastic threshold. After the plastic threshold is exceeded, the soil sample would experience large strain amplitudes due to the accumulated degradation of the dynamic shear modulus ...

The cyclic behaviour of soils and effects of geotechnical ...

Cyclic Behavior of Soils Antonios Vytiniotis Cyclic Shearing of Sands Dry Sand. 4/23/2009 2 TriaxialUndrained Monotonic Shearing CIUC tests Ishihara Critical State ToyouraSand Ishihara. 4/23/2009 3 Critical State Ishihara LCC vs. CSL Pestanaand Whittle. 4/23/2009 4 Discussion about the State parameter ψ Been, 1985 Critical State ToyouraSand Ishihara. 4/23/2009 5 Discussion about the State ...

Cyclic Soil Behavior - MIT

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Cyclic Behaviour of Soils

Evaluation of Cyclic Behavior of Fine-Grained Soils Considering Index Test. In this section of the study the soil used in the tests was evaluated using index test data and compared with the test results and criterion-based index test results and grain size data (Chinese criteria) the Andrews and Martin's criteria, and the Bray and Sancio's criteria). According to Figure 7, the laboratory test ...

Behavior of Nonplastic Silty Soils under Cyclic Loading

The purpose of this paper is to investigate and evaluate the cyclic and post-cyclic behavior of Adapazari soils (cohesive and cohesionless soils) under earthquake loading. The cyclic laboratory tests conducted on undisturbed soil samples obtained from Adapazari may enlighten the cyclic and post-cyclic soil behavior in this scope.

Cyclic and post-cyclic monotonic behavior of Adapazari soils

The cyclic behavior of clays was also studied by other researchers, e.g., the torsional simple shear test by Cai et al. and the resonant-column test by Kalligloglou and Pitlikakis . Studies on soil characteristics have been conducted previously using cyclic triaxial shear tests or hollow torsional shear tests. Nevertheless, the cyclic simple shear tests provide a more reasonable approximate representation of the seismic loading conditions than the former tests.

Cyclic behavior of saturated soft clay under stress path ...

The large-scale cyclic tri-axial test system (LDCTTS), developed by the British company GDS, has been successfully used to study the long-term behavior of saturated coarse granular materials , .To conduct tests on unsaturated coarse granular mixtures, the LDCTTS is upgraded with the following devices: a dual-channel pneumatic control system to simultaneously control the internal gas pressure ...

Long term cyclic behavior of unsaturated granular soils ...

Cyclic behavior of diatomaceous soils Comportement cyclique des sols avec des diatomées micro fossiles J.A. Diaz-Rodriguez Department of Civil Engineering, Universidad Nacional Autónoma de ...

Cyclic behavior of diatomaceous soils - ResearchGate

A three-dimensional (3D) constitutive model for simulating the monotonic and cyclic behaviour of granular soil-structure interfaces was proposed. The proposed 3D interface constitutive model is a state-dependent model in the framework of critical state soil mechanics and theory of two-surface plasticity. The performance of the model was examined using available laboratory observations on granular soil-structure interfaces under 3D loading conditions. The capabilities of the ...

Three-dimensional constitutive model for cyclic behavior ...

Geotechnical design for unsaturated soils requires an understanding of their fundamental characteristics. In this paper, in order to study the monotonic, cyclic and post-cyclic behaviour of an ...

(PDF) Monotonic, cyclic and post-cyclic behaviour of an ...

The post-cyclic behaviour of a clayey soil after subjecting to cyclic loading is presented in this paper. Tests were carried out on the samples both by allowing the cyclic pore pressure developed during cyclic loading to dissipate and without dissipation. While the samples subjected to post-cyclic monotonic loading without dissipation of cyclic pore pressure exhibited a highly overconsolidated behaviour, the samples after dissipation of cyclic pore pressure exhibited a lightly ...

Post-Cyclic Behaviour of Clayey Soil | SpringerLink

Sharma SS, Ismail MA (2006) Monotonic and cyclic behavior of two calcareous soils of different origins. J Geotech Geoenviron Eng 132(12):1581-1591. Article Google Scholar 28. Wang XZ, Jiao YY, Wang R, Hu MJ, Meng QS, Tan FY (2011) Engineering characteristics of the calcareous sand in Nansha Islands. South China Sea Eng Geol 120(1):40-47 . Google Scholar 29. Wang XZ, Wang X, Jin ZC, Meng QS ...

Cyclic behavior of interface shear between carbonate sand ...

Undrained Behaviour of Cohesionless Soils Under Cyclic and Transient Loading . M. P.

Luong, M.R.-C.N.R.S. and J. F. Sidaner, t.C.-t.F.P. Laboratoire de Mecanique des Solides, Ecole Polytechnique, 91128 Palaiseau-France ABSTRACT An experimental approach using the conventional axisymmetric triaxial apparatus suggested the introduction of a new concept "the characteristic state" for cohesionless ...

Undrained Behaviour of Cohesionless Soils Under Cyclic and ...

Request PDF | Cyclic Stress-Strain Behavior of Partially Saturated Soils | Although soils are generally assumed fully saturated below the groundwater table, they may be semi saturated near the ...

Cyclic Stress-Strain Behavior of Partially Saturated Soils ...

The observed behavior is associated with reduced mobility of the sand particles during cyclic loading, which can be ascribed to two mechanisms: (1) bonding/bridging at the particle contacts due to the charged laponite fines which are attracted to the sand grains; and (2) formation of a pore fluid with solid

Soil Dynamics and Earthquake Engineering

This study aims to examine the deformation behavior and internal mechanism of coarse-grained soil as an embankment filler under cyclic loading. Numerical dynamic triaxial tests were performed on coarse-grained soil using the discrete element software PFC3D. The numerical model was verified by comparing the numerical results with the experimental data.

Deformation Behavior of Coarse-Grained Soil as an ...

To evaluate the effects of cyclic load on the undrained behavior of soils, lots of experimental studies have been done through cyclic triaxial tests (e.g., , , , ,).However, in the triaxial tests, there are two of three principal stresses are the same, which means the major principal stress is always parallel or perpendicular to the vertical direction.

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