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Webinar on Soil Structure Interaction and Foundation Analysis: Theory and Its Application Improved Soil Pile Interaction Of

The present study explored the efficacy of pile shaft surface treatment on the improvement of soil-pile frictional resistance for floating or friction piles. 4 surface conditions of model piles measuring 200 mm long and 20 mm in diameter were examined, namely smooth (control), roughened, fishbone and checked shafts. A pile cap made of plywood was fixed to the top of the pile with 10 mm ...

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73 . IMPROVED SOIL-PILE INTERACTION OF FLOATING PILE IN SAND WITH SHAFT TREATMENT *Chee-Ming Chan¹ and Nurul Ain Mansor². ¹Faculty of Engineering Technology, Universiti Tun Hussein Onn Malaysia, Malaysia ²Faculty Civil & Environmental Engineering, Universiti Tun Hussein Onn Malaysia, Malaysia
*Corresponding Author ; Received: 30 April 2017, Revised: 14 May 2017, Accepted: 28 June 2017

IMPROVED SOIL-PILE INTERACTION OF FLOATING PILE IN SAND ...

Improved soil-pile interaction of floating pile in sand with shaft treatment . By Chee-Ming Chan and Nurul Ain Mansor. Abstract. The present study explored the efficacy of pile shaft surface treatment on the improvement of soil-pile frictional resistance for floating or friction piles. 4 surface conditions of model piles measuring 200 mm long ...

Improved soil-pile interaction of floating pile in sand ...
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Improved Soil Pile Interaction Of Modeling Soil Reaction to Laterally Loaded Piles soil-pile interaction effects Average Soil-Reaction Coefficient Figure 1 has demonstrated that the soil stiffness against pile deflection is difficult to determine solely from the stiffness properties of ...

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frictional resistance for floating or friction piles. 4 surface conditions of model piles measuring 200 mm long and 20 mm in

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The influence of the improved zone size was reflected on the identified natural frequencies of the soil-pile-top mass systems. Seismic interactions between the soil and pile were simulated by adapting a hysteretic model that integrated phenomena such as soil-pile separation, material degradation, and radiation damping. The developed interaction elements calibrated for one shaking event were deployed to predict the soil reactions in another shaking event.

Development of Soil-Pile Interaction Models in Improved ...

This study develops an improved analytical solution to evaluate the effects of adjacent excavations on a pile. The pile-soil interaction is simulated using a Timoshenko beam resting on a Vlazov foundation and the explicit solutions are derived using the finite differential method, based on which the pile shear characteristics and inhomogeneity of multilayer soils are further considered.

Improved analytical method for pile response due to ...

(2) Improved Soil-Pile Interaction Model: When the Winkler model parameters are defined simply assuming the body waves propagating only in the horizontal direction (i.g. plane strain conditions for cylindrical waves), the model generally fails to produce meaningful results at very low frequencies

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including the static case.

Soil pile interaction model or earthquake response ...
if $(S_0 - p_0 i_2) < x_0 i_1 \tau_0 = \tanh(\Delta S Dz \cdot z_0 - p_0 i_2 - x_0 i_1)$ To obtain the pile deformation caused by the soil displacement, $p_0 i_2$ is found by transforming back to dimensions: $p_0 i_2 = p_0 i_2 \cdot Dz$. The pile settlement p_0 becomes $p_0 = S_0 + p_0 i_2 - p_0 i_1$ when the overall pile settlement S_0 is reintroduced.

Pile-Soil Interaction and Settlement Effects Induced by ...

The objectives of this research are to: (1) analyze pile-soil interaction using the finite difference software LPILE 2012 and the finite element software Abaqus/Cae and SAP2000, (2) compare the bending moments and lateral displacements induced along the depth of the pile using the finite difference method and the finite element models, and (3) conduct a parametric study to determine the effect of relevant design parameters which include the soil modulus of elasticity, increasing the amount ...

Numerical Analysis of Pile-Soil Interaction under Axial ...

The soil-pile interaction problem is considered as an extension of the soil-structure interaction problem and analyzed subdividing it into sub-systems (sub-structuring approach): (1) the pile (as part of the structure) and (2) the displaced soil are both described and formulated using the finite element method, and (3) the site is described and formulated in terms of a compliance matrix (soil flexibility matrix) using the flexible volume method.

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SOIL-PILE-STRUCTURE INTERACTION ANALYSIS: IMPLEMENTATION ...

Advanced sensors measured the soil-structure interaction during installation and under lateral loading. Test results confirmed that laterally-loaded pervious concrete ground-improvement piles behave as flexible laterally-loaded piles, while still providing permeability similar to granular columns.

Behavior and Soil-Structure Interaction of Pervious ...

In order to discern kinematic soil-pile interaction in the pile group, amplitudes of pile-heads displacements in the free-head pile group (Test No. 5) are normalized with respect to base displacement and plotted as a function of base excitation frequencies in Fig. 6(c). The corresponding free field curve is also plotted for comparison.

Soil-pile-structure kinematic and inertial interaction ...

□ A degradation multiplier at the pile soil-interface is introduced to the p-y curve to consider softening due to pore water pressure generation which induces liquefaction. □ The results indicate that the degradation of soil spring due to the pore water pressure greatly influence the foundation and superstructure response.

SOIL-PILE-STRUCTURE INTERACTION - Geotechnical

We can conclude that the soil interaction in earthquake engineering study was mainly developed and applied for these fields of construction industry. Another condition considered the soil-structure interaction effects are the soil flexibility. Softer is the

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soil, more is the chances for the occurrence of SSI effects.

Soil-Structure Interaction -Effects, Analysis and ...

Ground-structure interaction consists of the interaction between soil and a structure built upon it. It is primarily an exchange of mutual stress, whereby the movement of the ground-structure system is influenced by both the type of ground and the type of structure. This is especially applicable to areas of seismic activity. Various combinations of soil and structure can either amplify or diminish movement and subsequent damage. A building on stiff ground rather than deformable ground will ...

Soil-structure interaction - Wikipedia

The results showed that grouting can improve the bearing capacity of bored piles and precast concrete piles by increasing the degree of pile-soil interaction and the density of soil around the pile [15, 16]. Liu et al. introduced and studied the prestressing effect in the grouting process with a typical case. The mechanism of preloading affecting bearing capacity and lateral friction was explained in detail.

Experiment on Improving Bearing Capacity of Pile ...

A global pile response analysis accounting for the pile-soil interaction should be carried out for the mooring line reactions due to the fatigue sea states acting on the system. The local stresses that accumulate fatigue damage in the pile should be obtained by calculating a stress concentration factor (SCF), relative to the nominal stresses generated by the global analysis, at the fatigue critical locations.

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