

# 1. Similitude For Shaking Table Tests On Soil-structure-fluid Model In 1g Gravitational Field By Susumu Iai

By Susumu Iai

Susumu Iai. Professor. Updated 20 to evaluate seismically induced deformation in soil-structure systems including shake table testing of soil-structure-fluid

effect on seismic performance of storage tanks Ali Shafaat and (1): 191-207. Iai, S. 1989. Similitude for Shaking Table Tests on Soil Structure-Fluid Model in

shaking table tests on soil-structure-fluid Iai, S. (1989), "Similitude for shaking table tests on soil-structure-fluid model in 1g gravitational field

A series of 1-g shaking table tests was performed using a pile-soil model to verify the existing similitude law used in 1-g shaking table tests. Modeling of the model Shaking table test and dynamic response prediction "Study on Similitude Laws for Shaking Table Test," Earthquake Engineering and Engineering Vibration, 17(2):

1 2 3 s6 5Y 66 ( 23 )-261- -131 &\$o, I lf 2 " w! " & 9 %5

In the shaking table model test on SSI, similitude law should also be taken into account. (1) The phenomena of shaking table tests show that the tests reproduce

Shaking table model tests are performed to predict the soil and the soil-pile interaction behavior under seismic loadings. There are two types of shaking table tests

"A pressure-dependent correction for displacement results from 1g model tests shaking table tests on soil-structure-fluid model in 1, pp. 71-91. IAI

The similitude in 1G field for soil-structure-fluid system was 1. S.Iai, (1988), Similitude for Shaking Table Tests on Soil-Structure-Fluid Model in 1G

table tests on soil-structure-fluid model in 1g Iai(1989) "Similitude for shaking table tests on soil-structure-fluid model in 1g gravitational field", Soil

. after confirming the safety of a structure in consideration using appropriate methods such as model tests Table T.1 Principal model experiments and G otechnique Letters Volume 1. ground engineering; journal

Shaking table tests were performed to investigate the damage mechanisms of a subway structure in soft soil Study on similitude laws for shaking table test.

Similitude for shaking table tests on soil-structure-fluid model in 1g gravitational field (1989)

of Interface of a Concrete-rockfill Composite Dam Using Iai, S. (1989) Similitude for shaking table tests on soil-structure-fluid model in 1g

Susumu Iai' page. Susumu Iai (1) Iai, S. (1989) : "Similitude for shaking table tests on soil-structure-fluid model in 1g gravitational field," Soils and

on the similitude law (type III) proposed by Iai shaking table tests on soil-structure-fluid model in structure-fluid model in 1 g gravitational field .

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Theory Study on Similitude Design of Shaking Table Tests of Earthquake-Induced Landslide

different ground improvement layouts in the field. Iai, S. (1989), Similitude for Shaking Table Tests on Soil-Structure-Fluid Model in 1g Gravitational

SHAKING TABLE TESTS ON SOIL-STRUCTURE-FLUID A similitude is derived for the shaking table tests on saturated soil-structure-fluid model in 1g gravitational field.

Shaking table test 2.1. Similitude ratio design. Shaking table test on the seismic failure characteristics of a subway station structure on liquefiable ground.

for 1g shaking table tests, verified that this model can shaking table tests on soil-structure-fluid model in 1 g gravitational field. Soils Found, 29 (1)

Susumu Iai, Saki Noda To factors of virtual 1 G and centrifugal field. The model ground is flat shaking table tests on soil-structure-fluid model in 1g Iai, Susumu (1989), Similitude for shaking table tests on soil-structure-fluid model in 1-g On the Similitude in Model Vibration Tests of Earth Structures Application of FE\m. Iai, S. (1989) Similitude for Shaking Table Tests on Soil-Structure-Fluid Model in 1g Gravitational Field,

Similitude for Shaking Table Tests on Soil-Structure-Fluid Model in 1g Gravitational Field an assumptions is made upon the constitutive law of soil;