

## Soil Liquefaction During Recent Large Scale Earthquakes

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### Soil Liquefaction During Recent Large

Soil Liquefaction during Recent Large-Scale Earthquakes contains selected papers presented at the New Zealand – Japan Workshop on Soil Liquefaction during Recent Large-Scale Earthquakes (Auckland, New Zealand, 2-3 December 2013). The 2010-2011 Canterbury earthquakes in New Zealand and the 2011 off the Pacific Coast of Tohoku Earthquake in Japan have caused significant damage to many residential houses due to varying degrees of soil liquefaction over a very wide extent of urban areas unseen ...

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## **Soil Liquefaction during Recent Large-Scale Earthquakes**

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Soil Liquefaction during Recent Large-Scale Earthquakes will be of great interest to researchers, academics, industry practitioners and other professionals involved in Earthquake Geotechnical Engineering, Foundation Engineering, Earthquake Engineering and Structural Dynamics.

## **Soil Liquefaction during Recent Large-Scale Earthquakes**

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Soil liquefaction during recent large-scale earthquakes. Rolando P. Orense, Ikuo Towhata, Nawawi Chouw. Page 279 Download PDF; New findings based on post-earthquake investigations: select article Liquefaction-induced ground damages during the 2010 Chile earthquake.

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While soil liquefaction occurred in naturally-sedimented soil formations in Christchurch, most of the areas which liquefied in Tokyo Bay area were reclaimed soil and artificial fill deposits, thus providing researchers with a wide range of soil deposits to characterize soil and site response to large-scale earthquake shaking.

## **Soil Liquefaction during Recent Large-Scale Earthquakes**

The city and some surrounding towns experienced widespread damage due to soil liquefaction induced by seismic shaking during the Canterbury earthquake sequence, beginning in September 2010 with the M w 7.1 Darfield earthquake. The other most notable earthquakes in this sequence were the February 22 2011 M w

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## **ANALYSIS OF LIQUEFACTION CHARACTERISTICS AT CHRISTCHURCH ...**

AbstractThe significant damage observed during recent earthquakes resulting from liquefaction of shallow saturated soil deposits beneath structures has illustrated the need for further research in ...

## **Large-Scale Shake Table Tests on a Shallow Foundation in ...**

Earthquake-induced liquefaction causes soil to exhibit fluidlike behavior due to a sudden increase in pore water pressure and a concurrent decrease in effective stress.

## **(PDF) C.9 Recent Advances in Soil Liquefaction Engineering ...**

Soil liquefaction occurs when a saturated or partially saturated soil substantially loses strength and stiffness in response to an applied stress such as shaking during an earthquake or other sudden change in stress condition, in which material that is ordinarily a solid behaves like a liquid. In soil mechanics, the term "liquefied" was first used by Allen Hazen in reference to the 1918 failure of the Calaveras Dam in California. He described the mechanism of flow liquefaction of the embankment

## **Soil liquefaction - Wikipedia**

Possible measures to mitigate future damage. Soil Liquefaction during Recent Large-Scale Earthquakes will be of great interest to researchers, academics, industry practitioners and other professionals involved in Earthquake Geotechnical Engineering, Foundation Engineering, Earthquake Engineering and Structural Dynamics.

## **Soil liquefaction during recent large-scale earthquakes ...**

Liquefaction in recent deposits of the Pajaro River formed sand volcanoes along a fissure 6-7 m (19.7-23 ft) long. Variation in grain size and partial erosion of the conical deposits of sand show that venting of the slurry of sand and water was a complex series of depositional and erosional events triggered by the main shock and renewed in some instances by principal

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## **What is liquefaction? - USGS**

Soil Liquefaction during the Tōhoku earthquake in Japan that occurred on 11 March 2011 During the infamous 2011 earthquake off the Pacific coast of Tōhoku, Japan the liquefaction occurred over hundreds of miles. Most of the structures in the affected areas were tilted and sank into the sediments, even while they remained intact.

## **What is soil liquefaction? Causes, effects and measures**

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March 19, 2014 Researchers are using T-Rex, a 64,000-pound shaker truck, in research to increase the resilience of homes and low-rise structures built on top of soils prone to liquefaction during strong earthquakes.

## **Ground-improvement methods might protect against ...**

A landfill site, also known as a tip, dump, rubbish dump, garbage dump, or dumping ground, is a site for the disposal of waste materials. Landfill is the oldest and most common form of waste disposal, although the systematic burial of the waste with daily, intermediate and final covers only began in the 1940s. In the past, refuse was simply left in piles or thrown into pits; in archeology this ...

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