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**What is soil liquefaction -
University of Washington**

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Soil Liquefaction is the phenomenon in which the stiffness and the strength of the soil are lost under the action of earthquake force or due to rapid loading conditions.

What is soil liquefaction? Causes, effects and measures strength loss and large strains is "liquefaction." "Clay-like"(orcohesive)referstosoils thatbehavelikeclayslike" (or cohesive) refers to soils that behave like clays in monotonic and cyclic undrained loading. Onset of strength loss and large strains is "cyclic softening." Atterberg limits of fine-grained soils exhibiting

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Liquefaction of Soils During Earthquakes | The National ...
Liquefaction occurring beneath buildings and other structures can cause major damage during earthquakes. For example, the 1964 Niigata earthquake caused widespread liquefaction in Niigata, Japan which destroyed many buildings. Also, during the 1989 Loma Prieta, California earthquake, liquefaction of the soils and debris used to fill in a lagoon caused major subsidence, fracturing, and horizontal sliding of the ground surface in the Marina district in San Francisco.

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“A Phenomenon whereby a saturated or partially saturated soil substantially loses strength and stiffness in response to an applied stress, usually earthquake shaking or other sudden change in stress condition, causing it to behave like a liquid” is called Soil Liquefaction (Hazen,1918).

Liquefaction of Soils During Earthquakes - NIST Definition of Liquefaction.
Liquefaction occurs when vibrations or water pressure within a mass of soil cause the soil particles to lose contact with one another. As

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a result, the soil behaves like a liquid, has an inability to support weight and can flow down very gentle slopes. This condition is usually temporary and is most often caused by an...

Overview | Liquefaction of Soils During Earthquakes | The ...

Soil liquefaction often occurs in sandy soil during earthquakes. It is one of the major causes of earthquake-related disasters. It is one of the major causes of earthquake-related disasters.

Soil liquefaction due to earthquake. UTHM GEOFEST'14

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Liquefaction is a phenomenon in which the strength and stiffness of a soil is reduced by earthquake shaking or other rapid loading. Liquefaction and related phenomena have been responsible for tremendous amounts of damage in historical earthquakes around the world. Liquefaction occurs in saturated soils,...

Soil liquefaction - Wikipedia
Liquefaction is a phenomenon where saturated sand and silt take on the characteristics of a liquid during the intense shaking of an earthquake. It take place when a quake has increased water...

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Liquefaction of Soil During Earthquakes | Maps, Video soil liquefaction Loma Prieta earthquake of 1989: sand volcano The four-foot vent of a sand volcano generated by soil liquefaction in a California strawberry field during... Loma Prieta earthquake of 1989: sand volcanoes Sand blows in a field near the Pajaro River in Watsonville, California, ...

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2 LIQUEFACTION OF SOILS DURING EARTHQUAKES.
catastrophic, such as flow failures of slopes or earth dams, settling and tipping of

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**buildings and piers of
bridges, and total or partial
collapse of retaining walls.**

**Soil Liquefaction - an
overview | ScienceDirect
Topics**

**Liquefaction may occur when
water-saturated sandy soils
are subjected to earthquake
ground shaking. When soil
liquefies, it loses strength
and behaves as a viscous
liquid (like quicksand) rather
than as a solid.**

**What is liquefaction?
Soil liquefaction. Soil
liquefaction occurs when a
saturated or partially
saturated soil substantially
loses strength and stiffness in**

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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,...

**What is Soil Liquefaction?
Causes and Importance of Soil**

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Liquefaction, which Indonesian officials said Monday had destroyed several thousand homes in and around the city of Palu during the earthquake on Friday, is one of the most devastating effects of...

**On the Behavior of Soils
During Earthquakes -**

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The atypical shear modulus and Q show that liquefaction of sensitive soils during earthquakes may be preceded by nonlinear behaviors, with drastic degradation of shear rigidity and severe...

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Liquefaction - Utah Geological Survey

**The magnitude 9.0 Tohoku
earthquake that struck Japan
in 2011 generated a huge
tsunami that left large
underwater dunes on the
seafloor. Category People &
Blogs**

Soil Liquefaction During Earthquakes - The Cliffs Notes

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**A classification of types of
soil behavior during
earthquakes is proposed
based on the presence of
"driving" shear stresses in the
soils from static loading
existing prior to the
earthquake. The term**

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"driving" refers to those shear stresses that are required for static equilibrium and, therefore, are available to drive the mass should the soil lose sufficient strength.

When Earthquakes Liquefy Soil, Devastation Can Follow

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