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Liquefaction in Japan: Tilted apartment buildings at Kawagishi cho, Niigata, Japan; the soils beneath these buildings liquefied during an earthquake in 1964 and provided little support for the building foundations. These tilted buildings and liquefaction in this area are probably the most well known examples of liquefaction and loss of bearing strength.

~~Liquefaction of Soil During Earthquakes | Maps, Video~~

Soil liquefaction, also called earthquake liquefaction, ground failure or loss of strength that causes otherwise solid soil to behave temporarily as a viscous liquid.

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The phenomenon occurs in water-saturated unconsolidated soils affected by seismic S waves (secondary waves), which cause ground vibrations during earthquakes.

~~soil liquefaction | Definition, Examples, & Facts | Britannica~~

soils. Soil liquefaction has been observed in almost all large earthquakes, and in some cases it has caused much damage. The destructive effects of soil liquefaction were forcibly brought to the attention of engineers by the disastrous 1964 earthquake in Niigata, Japan. This earthquake (1)

~~Liquefaction of Soils During Earthquakes — NIST~~

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One of the major studies of geotechnical engineering is that liquefaction, One of the hazards of the earthquake. The fundamental of the liquefaction in which cyclic loading from earthquake decreased the strength and stiffness of soils and ground behaves like a fluidly for a temporary basis.

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~~Soil Liquefaction Analysis for Earthquakes~~

The conditions for a seismically induced liquefaction failure to occur are two, namely, 1) the mass must be unstable in the sense that the driving shear stresses exceed the undrained steady state strength of the soils, $> S$, and 2) the earthquake stresses must be sufficient to trigger the failure, i.e., it must be able to strain the soil sufficiently to overcome the peak strength of the soil as in Fig. 9b (Poulos et al., 1985b). Perhaps the best known case of a liquefaction slide is ...

~~On the Behavior of Soils During Earthquakes — Liquefaction ...~~

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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 ...

~~Soil liquefaction — Wikipedia~~

Liquefaction occurring beneath buildings and other structures can cause major

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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.

~~What is liquefaction?—USGS~~

Consequences of liquefaction are discussed with respect to post-seismic stability analysis, in which the residual strength plays a major role. Procedures used for liquefaction analysis based on the results of in situ sounding tests are introduced, and the applicability of this method for estimating associated ground settlements is discussed.

~~Liquefaction and flow failure during earthquakes ...~~

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. Soil liquefaction occurs in a fully saturated soil. Principle and Causes of Liquefaction The soil in normal condition is closely packed to each other.

~~What is Soil Liquefaction? Causes and Importance of Soil ...~~

"A Phenomenon whereby a saturated or partially saturated soil substantially loses strength and stiffness in response to an applied stress, usually earthquake shaking

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or other sudden change in stress condition, causing it to behave like a liquid" is called Soil Liquefaction (Hazen,1918).

~~What is soil liquefaction? Causes, effects and measures ...~~

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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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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. Soil liquefaction occurs in a fully saturated soil. To read more, please click here. What is the cause of soil liquefaction?

~~How to Evaluate Liquefaction Potential of Soils in the Field?~~

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Soil liquefaction occurs when waterlogged soil behaves like a liquid. Some people refer to it as earthquake liquefaction. The vibrations of earthquake shockwaves in water-saturated soils trigger the phenomenon. Earthquakes are a very common origin of soil liquefaction damage, but other vibration-creating events can be a factor.

~~What Causes Soil Liquefaction & How It Can Be Prevented~~

The basic mechanisms of earthquake-induced soil liquefaction are introduced by considering the shaking of a block on a thin granular layer, which mechanical behaviour is modelled with a hypoplastic...

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