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See the ground
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Made Soil Flow Like

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Water | NYT News Of

~~Liquefaction Of Soils
During Earthquakes
Earthquakes~~
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.

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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

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failure or loss of strength that causes otherwise solid soil to behave temporarily as a viscous liquid.

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

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~~soil liquefaction |
Soils During
Earthquakes
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

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to the attention
of engineers by the
disastrous 1964
earthquake in
Niigata, Japan. This
earthquake (1)

~~Liquefaction of Soils
During Earthquakes—
NIST~~

Soil liquefaction, also
called earthquake
liquefaction, ground
failure or loss of

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otherwise solid soil to
behave temporarily
as a viscous liquid.

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

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~~Liquefaction Of Soils~~

~~During Earthquakes~~

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

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strength and stiffness
of soils and ground
behaves like a fluidly
for a temporary basis.

~~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

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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 a

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L., 1985b). us
Perhaps the best
known case of a
liquefaction slide is ...

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

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During Earthquakes"
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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

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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~~

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Liquefaction Of

Soils During Earthquakes
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

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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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~~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

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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

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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~~

Page 27/36

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~~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 or other
sudden change in
stress condition,

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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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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

Where To Download rigidity and severe... Soils During ~~Liquefaction of Soils During Earthquakes | Request PDF~~

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

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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?~~

Soil liquefaction occurs when waterlogged soil

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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

Where To Download events can be a factor. Soils During Earthquakes

~~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,

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which mechanical
behaviour is
modelled with a
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