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H. B. Seed and I. M. Idriss, "Ground Motions and Soil ...

The soil can sustain the ground forces in general conditions. But an earthquake or strong

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motion/vibrations in the ground, can cause water logging which increases the liquid consistency in the soil. The soil loses its rigidity and the ground cannot support the loads causing them to sink or collapse. Fig:

3 Soil Liquefaction during earthquakes

What is soil

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measures ...**

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Bibliographic
information.

Publication date 1982

ISBN 0943198240

9780943198248 .

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during earthquakes
in ...**

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. Although

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earthquake shock is
the best known cause
of liquefaction...

Engineering

soil liquefaction | Definition, Examples, & Facts | Britannica

The next day, the
Superstition Hills
(M6.6) earthquake
produced surficial
evidence of
liquefaction in the

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area of the strong
motion instruments.

Recorded pore
pressure

measurements,
however, were

considered by some
to be inconsistent with
the recorded ground
motion measurements

leading to published
discussions that
described significant
technical

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Liquefaction
disagreements in the
During
geotechnical
earthquakes ...

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**Liquefaction,
Ground Motions,
and Pore Pressures
at the ...**

2016); subsequently,
the seabed soil
liquefaction potential
was analyzed for the
Changbin offshore
wind farm. This study

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also examined the effects of uncertainties regarding the soil unit weight and shear wave velocity of a simplified soil profile on the ground motion analysis and seabed soil liquefaction potential analysis. II.

CASE STUDY OF THE GROUND

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**MOTION ANALYSES
AND SEABED SOIL
Earthquakes**
...

To provide design
guidance on the
influence of soil
softening on ground
response, we
analyzed ground
motions recorded at
five instrumented
liquefaction sites,
including the Wildlife
Liquefaction Array,

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Calif.; the Port Island
Downhole Array,
Japan, the Treasure
Island and Alameda
Naval Air Station
sites, Calif., and the
Kawagiahhi-cho
apartment buildings,
Niigata, Japan.

**Influence of Soil
Softening and
Liquefaction on
Spectral ...**

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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

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behaves like a liquid.

In soil mechanics, the term "liquefied" was first used by Allen Hazen in reference to the 1918 ...

Soil liquefaction - Wikipedia

On the reclaimed land, the soil liquefaction occurred at the peak acceleration of

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200–250 gal and the
period elongated
about twice, which
means the stiffness
decreased to $1/4$ of
the original. (3)

Repeated property c
w of the ground
motions

Strong Motion

**Effect of earthquake
ground motions on
soil liquefaction ...**

Clarifying the effect of

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the characteristics of
the ground motion on
the soil liquefaction
mechanism is one of
the essential studies
to be conducted, and
effective
countermeasures for
the damaged ...

Strong Motion

**(PDF) Effect of
earthquake ground
motions on soil
liquefaction**

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from all the recorded
ground motions. This
may account for the
difference in structural
damage due to the
ground motions
between these two
earthquakes. 3.

Observed motions
with effect of soil
liquefaction 3.1.

Typical time history of
ground acceleration
Fig. 5 shows a time

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history of the ground
acceleration observed
at Hazaki Station in
Chiba ...

Monographs On **Effect of earthquake ground motions on soil liquefaction**

This monograph
updates a subject
area covered in the
1982 classic text used
around the world,
Ground Motions and

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Soil Liquefaction
During Earthquakes,
by H. Bolton Seed
and I.M. Idriss. The
new publication will fill
a need for a thorough
synthesis in one
accessible resource
for students,
practicing engineers,
and other
professionals of
progress in the study
of liquefaction since

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1982.
During

**Soil Liquefaction
During Earthquakes
(Engineering ...**

When the vertical
ground motion is rich
in frequencies in the
range where the
fundamental
frequency of the
deposit for P-waves
lies, resonance can
occur leading to the

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development of
significant deviatoric
stresses which in turn
can induce plasticity
and, if sufficiently
strong, may lead to
soil liquefaction. Peak
ground acceleration of
the ...

Strong Motion

**Vertical ground
motion and its
effects on
liquefaction ...**

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The occurrence of liquefaction, however, can also affect ground surface motions, and hence the seismic response of structures founded at or near the ground surface. This paper reviews the process of liquefaction and the manner in which its occurrence is typically detected.

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During Effects of Liquefaction on Ground Surface Motions ...

Excess pore-water
pressure and
liquefaction at the
Wildlife Liquefaction
Array in 1987 were
caused by
deformation
associated with both
high-frequency strong

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ground motion and
5.5-second-period

Love waves. The

Love waves produced

large ($\approx 1.5\%$) cyclic
shear strains well

after the stronger high-
frequency ground

motion abated.

Strong Motion

Liquefaction,

Ground Oscillation,

and Soil

Deformation at ...

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Soil liquefaction during past earthquakes has caused extensive damage to buildings, bridges, dam, pipelines and other elements of infrastructure.

Geotechnical engineers use empirical observations from earthquake case

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histories in

conjunction with soil
mechanics to predict
the behavior of
liquefiable soils.

However, current
empirical databases
are insufficient to
evaluate the behavior
of soils...

Records

**Effects of Long-
Duration Ground
Motions on**

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The evaluation of the liquefaction potential of soils in seismic-prone region is essential for site selection, planning, and construction of structures. One can assess liquefaction potential through standard blasting tests, ground response analysis,

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laboratory tests, and
expertise. The use of
laboratory tests is not
desirable due to
difficulties in taking
undisturbed samples
and ...

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