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Soil Mechanics and Foundation Engineering - Civil

In soil mechanics, consolidation refers to the process by which soil changes volume gradually in response to a change in pressure. This happens because soil is a two-phase material, comprising soil grains and pore fluid, usually groundwater. When soil saturated with water is subject to an increase in pressure, the high volumetric stiffness of water compared to the soil matrix means that the ...

Consolidation (soil) - Wikipedia

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

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