

## Soil Mechanics Foundation Engineering Notes

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As the name Soil Mechanics implies the subject is concerned with the deformation and strength of bodies of soil. It deals with the mechanical properties of the soil materials and with the application of the knowledge of these properties to engineering problems. In particular it is concerned with the interaction of structures with their foundation material. This includes both conventional structures and also structures such as earth dams, embankments and roads which are their-selves made of soil.

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1. Karl Terzaghi is the father of Soil Mechanics. His first book on Soil Mechanics is Earabaumechanics published in 1925 2. The process of formation of soil is termed as Pedogenesis 3. The soil is formed due to weathering of rocks, which may be carried out either physically or chemically.



**As the name Soil Mechanics implies the subject is concerned with the deformation and strength of bodies of soil. It deals with the mechanical properties of the soil materials and with the application of the knowledge of these properties to engineering problems. In particular it is concerned with the interaction of structures with their foundation material. This includes both conventional structures and also structures such as earth dams, embankments and roads which are their-selves made of soil.**

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**built on: foundations of buildings, bridges. built in: basements, culverts, tunnels. built with: embankments, roads, dams. supported: retaining walls. Soil Mechanics is a discipline of Civil Engineering involving the study of soil, its behaviour and application as an engineering material.**

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**This article on Soil Mechanics & Foundation Engineering has been written by Rohit Sachdeva (AIR 93 in GATE 2017 CE). He graduated from Delhi College of Engineering (now DTU) in 2012 (a gold medalist in his batch) in Civil Engineering branch. Then he appeared in Civil Engineering (CE) paper in GATE 2017 and secured an All India Rank (AIR) of 93.**

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**In engineering terms, soil is generally softer, weaker and more weathered material overlying rock. All soils consist of solid particles assembled in a relatively loose packing. The voids between the particles may be filled completely with water (fully saturated soils) or may be partly filled with water and partly with air (partly saturated soils).**

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**A foundation engineer must have: Primary duty of a foundation engineer is safety and economy Enough knowledge of scientific principles It comes by taking specialized courses e.g. Geology, Soil Mechanics, Foundation Engineering, Structural Engineering**

*etc. Experience and courage to take engineering judgments It comes by working with seniors, attending seminars and workshops etc. Requirements of a foundation Safety The foundation must be stable and safe in the first place.*

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