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John Atkinson is Professor of Soil  
Mechanics at City University, London. He  
has taught geotechnical engineering to  
undergraduates and postgraduates for over

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30 years. He is expert in soil behaviour  
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Soil mechanics is a branch of soil physics  
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behavior of soils. It differs from fluid mechanics and solid mechanics in the sense that soils consist of a heterogeneous mixture of fluids (usually air and water) and particles (usually clay , silt , sand , and gravel ) but soil may also contain organic solids and other matter.



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Soil mechanics, the study of the physical properties and utilization of soils, especially used in planning foundations for structures and subgrades for highways.

The first scientific study of soil mechanics was undertaken by French physicist Charles-Augustin de Coulomb , who published a theory of earth pressure in



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Soil mechanics is the science of equilibrium and motion of soil bodies. Here soil is understood to be the weathered material in the upper layers of the earth's crust. The non-weathered

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material in this crust is denoted as rock, and its mechanics is the discipline of rock mechanics.

## ~~SOIL MECHANICS~~ —kau

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prepared by a panel of authors drawn from  
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The treatment of soil mechanics is essentially theoretical but it is not highly mathematical and soil behaviour is represented by relatively simple equations with clearly defined parameters. The theory is supported by worked examples and simple experimental demonstrations.

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Soil mechanics is the study of the fundamental principles governing the behaviour of all subsoil, and is a branch of civil engineering (subsoil being the earth we are interested in, as opposed to topsoil,

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which we do not use for building). Soil mechanics principles are used by engineers designing foundations and retaining walls and ...

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familiar concepts of soil mechanics evolve  
directly from continuum mechanics. It

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confirms concepts such as pore pressures, cohesion and dependence of the shear stress on consolidation, and rejects the view that continuum mechanics cannot be applied to a material such as soil. The general concepts of continuum mechanics, field

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Soil Mechanics zSoil mechanics is the branch of science that deals with the study of physical properties of soil and the behaviorthe study of physical properties of soil and the behavior of soil masses subjected to various types of forces.

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