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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 30 years. He is expert in soil behaviour and laboratory testing of soils and he was the Rankine Lecturer in 2000.

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Soil mechanics is a  
branch of soil physics  
and applied mechanics

that describes the  
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 )

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but soil may also contain organic solids and other matter.

**Soil mechanics -  
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Soil mechanics, the  
study of the physical  
properties and  
utilization of soils,  
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for structures and  
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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  
1773. Coulomb's work  
and a theory of earth  
masses published by  
Scottish ...

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Britannica**

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Soil mechanics is a discipline of civil engineering that predicts the soil performance characteristics utilizing the engineering techniques of dynamics, fluid mechanics, and other technologies. Soil mechanics includes the study of soil composition, strength, consolidation, and the use of hydraulic principles to deal with

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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

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defined parameters.

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The subject is broken ...

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John Atkinson is  
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University, London. He  
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engineering to  
undergraduates and  
postgraduates for over

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30 years. He is expert  
in soil behaviour and  
laboratory testing of  
soils and he was the  
Rankine Lecturer in  
2000.

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Vertical stresses in soil  
mechanics and  
foundation engineering  
are of interest in  
settlement analyses of  
soils, for checking

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overstressed zones in soil and in evaluating bearing capacity of rigid, circular pier foundations and piles based on a prescribed magnitude of tolerable settlement.

## **Journal of the Soil Mechanics and Foundations Division**

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Soil structure refers to the arrangement of sand, silt, and clay particles within a soil

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mass. Air and water movement through a soil mass directly depends upon the structure of soil mass.

Symmetry leads to stability, so if a soil mass has symmetrical or good structure, water and air movement through it will be smooth.

**Soil Mechanics:  
Chemical and  
Physical Properties  
of Soil ...**

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career as a  
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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 material in this crust is denoted as

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rock, and its mechanics is the discipline of rock mechanics.

## **SOIL MECHANICS - kau**

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



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supported by worked  
examples and simple  
experimental  
demonstrations.

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Compaction of soil is  
the application of  
mechanical energy to a  
soil to rearrange the  
particles and reduce  
the void ratio and

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increase soil density. If performed improperly, settlement of the soil could occur and result in unnecessary maintenance costs or structural failure.

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