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Soil Mechanics in Engineering Practice Lectures Soil Mechanics Introduction and Definition Soil mechanics is defined as the application of the laws and principles of mechanics and hydraulics to engineering problems dealing with soil as an engineering material. Soil has many different meanings, depending on the field of study. To a geotechnical engineer, soil has a much broader meaning and can ...

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Foundation engineering is the application of soil mechanics and rock mechanics (Geotechnical engineering) in the design of foundation elements of structures. [Source: Wikipedia] (Also Read: Cement and Concrete Code Free Download)

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Soil investigations are carried out to understand properties of soil and types of foundation suitable for those. In this article, various types of soil investigations, their reports and suitable types of foundations for various types of soils are discussed. Contents:Types of Soil Investigations for Foundation SelectionSubsurface Soil InvestigationsSurface Soil InvestigationsSoil ...

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Foundation is one of the most important part of the structure. It transfers the total loads from the structure to the soil and provides stability to the structure. Foundation can be primarily classified in two parts, such as Shallow Foundation and Deep Foundation.

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Friction pile transfers the load from the structure to the soil by the frictional force between the surface of the pile and the soil surrounding the pile such as stiff clay, sandy soil, etc. Friction can be developed for the entire length of the pile or a definite length of the pile, depending on the strata of the soil. In friction pile, generally, the entire surface of the pile works to ...

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The study of soil, and its properties and behavior, is called soil mechanics. Once the foundations have been built, the loose soil that has been excavated must be put back over and around the foundations. This is called backfilling. Backfilling must be done carefully, as the soil there must support the weight of the floor slab at ground level ...

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Consolidation sometimes takes place in a compressible stratum situated at a considerable depth, although the soil immediately below the foundation is relatively firm and may result in Structural Settlement of the foundation. In cohesionless soil consolidation or compaction takes place relatively quickly, and cannot be easily separated from the ...

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SE 242. Foundation Engineering (4) Application of soil mechanics to the analysis, design, and construction of foundations for structures. Soil exploration, sampling, and in-situ testing techniques. Stress distribution and settlement of structures. Bearing capacities of shallow foundations and effects on structural design.

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S.W. Sloan, in Computational Mechanics—New Frontiers for the New Millennium, 2001. INTRODUCTION. The cone penetration test (CPT) has been widely used in geotechnical engineering as an in-situ test to map soil profiles and assess soil properties. For instance, CPT test results in sand are often used to estimate soil friction angle and shear ...

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