



Study About Soil Stabilization, Its Principles And Applications

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Abstract : Stabilization in a broad sense incorporates the various methods employed for modifying the properties of a soil to improve its engineering performance. Stabilization is being used for a variety of engineering works, the most common application being in the construction of road and airfield pavements, where the main objective is to increase the strength or stability of soil and to reduce the construction cost by making best use of locally available materials.

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Introduction : Natural soil is both a complex and variable material. Yet because of its universal availability and its low cost winning it offers great opportunities for skilful use as an engineering material.

Not uncommonly, however the soil at any particular locality is unsuited, wholly or partially, to the requirements of the construction engineer. A basic decision must therefore be made whether to:

- Accept the site material as it is and design to standards sufficient to meet the restrictions imposed by its existing quality.
- Remove the site material and replace with a superior material.
- Alter the properties of existing soil so as to create a new site material capable of better meeting the requirements of the task in hand.

Evolution