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â€¢ Overall strain of a soil mass is the combined effect of particle deformation and interparticle sliding.
â€¢ Relative sliding of soil particles result in rearrangement of soil particles , which is a nonlinear and irreversible phenomena, thus resulting in a non-linear and irreversible stress-strain behavior of soils.

An Overview of Soil Mechanics - IITK

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Obviously soil mechanics is the mechanics of structures made of soils and there are also rock mechanics for rocks and fluid mechanics for fluids. Some important branches of mechanics are illustrated in Fig. 1.3; all of these are used in soil mechanics and appear later in this book.

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