

Shearing Deformation of Granular

Materials such as Sand

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ABSTRACT

The plastic work done during the shearing deformation of granular materials such as sand depends largely on stress paths. A new parameter defined as

$$\frac{\text{(Plastic work done)}}{\text{(confining pressure)}}$$

is independent of stress paths. This parameter is called 'entropy' and it plays an important role in the study of plastic deformation of granular materials.