

Stress, Strain, Elasticity and Plasticity

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Plasticity:

1.Quiz - Key

1. What are Levy-Mises equations?

Stress-strain relations for plastic deformation.

2. Define Tresca yield criterion.

$$\sigma_1 - \sigma_3 = Y$$

3. Among the following which has the highest modulus of elasticity? Steel, Aluminium, Diamond?

Diamond.

4. What is the shape of yield locus for a material, which obeys Tresca criterion?

Hexagon – elongated.