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Formulas for Stress, Strain, and Structural Matrices ...

This kind of graph is called stress- strain curve. Stress Stress is

defined as the force per unit area of a material. i.e. Stress = force / cross sectional area: where, σ = stress, F = force applied, and A = cross sectional area of the object. Units of s : Nm^{-2} or Pa. Strain Strain is defined as extension per unit length.

Differences between Stress and Strain: The force applied to object, the object gets displaced that is stress and Strain is the change in the form or shape of the object or physical body on which stress is applied. Stress can occur without strain, but strain cannot occur with the absence of stress. The stress and strain can be calculated.

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Stress and Strain-Definition, Curve or Diagram, Formula, PDF

Types of Stress. Normal Stress: The restoring force per unit area perpendicular to the body surface is known as the normal stress. It differentiated into two types: tensile and compressive stress. Tangential Stress: It is called tangential stress when the elastic restoring force acts parallel to the surface area. Types of Strain. Longitudinal Strain: The strain produced on the body due to the ...

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