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The theory of structures deals with the mechanics of slightly deformable bodies. The 'slight deformations are such that, viewed overall, the geometry of the structure does not appear to alter, so that, for example, equilibrium equations written for the original structure remain valid when the structure is deformed.

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3.1 Introduction 3.1.1 Basic concepts The Theory of Structures' is concerned with establishing an understanding of the behaviour of structures such as beams, columns, frames, plates and shells,

when subjected to applied loads or other actions which have the effect of changing the state of stress and deformation of the structure.

**Theory Of Structures In Civil**

Structural engineering is a sub-discipline of civil engineering in which structural engineers are trained to design the 'bones and muscles' that create the form and shape of man-made structures. Structural engineers need to understand and calculate the stability, strength and rigidity and earthquake of built structures for buildings and nonbuilding structures. The structural designs are integrated with those of other designers such as architects and building services engineer and often supervise

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Theory of structures: Moment of inertia, bending stresses and shear stresses.

3. Total strain energy theory for the failure of a material at the elastic limit is known (A)Guest's or Tresca's theory (B)St. Venant's theory (C)Rankine's theory (D)Haig's theory. Answer: Option D . 4.

The maximum magnitude of shear stress due to shear force F on a rectangular section of area A at the neutral axis is (A)F/A (B)F/2A (C ...