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lecture Part 1 Theory Of Structures In Civil

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. 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.

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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 ...

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Section 2. 1. A simply supported beam A carries a point load at its mid span.

Another identical beam B carries the same load but uniformly distributed over the entire span. The ratio of the maximum deflections of the beams A and B, will be. A. $2/3$.

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3.1 Introduction 3.1.1 Basic concepts The
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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
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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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- The word structure has various meanings.
- By an engineering structure we mean roughly something constructed or built.
- The principal structures of concern to civil engineers are bridges, buildings, walls, dams, towers, shells, and cable

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structures. Such structures are composed of one or more solid elements arranged so that the whole structures as well as their components are capable of holding themselves without appreciable geometric change during loading and unloading.

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Lecture.1 4 Dr. Muthanna Adil Najm

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FORMS OF STRUCTURES Any civil engineering structure is conceived keeping

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in mind its intended use, the materials available, cost and aesthetic considerations. The structural analyst encounters a great variety of structures and these are briefly reviewed here.

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