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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

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and B, will be. A.  $2/3$ .

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Structural engineering is a sub-discipline of civil engineering in which structural engineers are trained to design the

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'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.

**Structural engineering - Wikipedia**

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Truss (Pin connected joints): A type of structure formed by members in triangular form, the resulting figure is called a truss. In truss joints are pin connected and loads are applied at joints. No shear force & bending moment are produced. Only axial compression and axial tension is to be determined while analyzing a truss. Structural

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Members: Those members that are

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Introduction to Structural Analysis



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Andres W.C. Oreta De La Salle University  
Manila, Philippines 2. Structural Analysis is an integral part of a structural engineering project 3. Structures can not be analyzed. They can only be load-tested. We analyze the “model” of a structure. 4.

## **Introduction on Theory of**

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## **Structures - SlideShare**

The principal structures of concern to civil engineers are bridges, buildings, walls, dams, towers, shells, and cable 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

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geometric change during loading

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