

MECHANICS OF MATERIALS & STRUCTURES

Structures:

Structures are systems of interconnected components designed to withstand external loads and forces. These structures can be classified into various types based on their shape, composition, and behavior under loading. Here are a few examples of structures and their characteristics:

- **Beams:** A beam is a structural member resting on supports to carry vertical loads. They are designed to resist bending and shear stresses. Examples of beams include bridge girders, roof beams, and floor joists.
- **Columns:** Columns are vertical structural members that primarily resist compressive loads. They are designed to withstand buckling under high compressive forces. Examples of columns include pillars, posts, and support columns for buildings.
- **Trusses:** Trusses are composed of interconnected triangles and are used to support roof and bridge structures. They are designed to resist tensile and compressive loads and are commonly used in lightweight structures like airplane wings and space frames.
- **Cables:** Cables are flexible structures that can support tensile loads. They are made up of wires twisted or braided together and can be used for structures like suspension bridges, power lines, and cable-stayed structures.
- **Shells:** Shells are thin, curved structures that can resist external loads by developing compressive and tensile stresses. Examples of shells include pressure vessels, storage tanks, and the domes of buildings.
- **Buildings and bridges etc.**

Stress:

- The internal force of resistance per unit area offered by a body against deformation is called stress.
- It originates only in deformable body.
- Axial stress = ~~Ошибка!~~ = ~~Ошибка!~~
- Shear stress = ~~Ошибка!~~ = ~~Ошибка!~~
- Bending Stress = $\frac{\text{Bending moment}}{\text{section modulus}} = \frac{M}{z}$
- Its unit is same as unit of pressure.
- Unit = N/mm² or Kg/cm² or MPa

Lecture Notes Mechanics Materials I Mechanical

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