STRUCTURAL MECHANICS

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Lesson: 1

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Chapter:8 Shear Force and Bending Moment of Beam

- Shearing forces are unaligned forces
 pushing one part of a body in one specific direction, and another part of the body in the opposite direction.
- A bending moment is the reaction induced in a structural element when an external force or mom ent is applied to the element, causing the element to bend. The most common or simplest structural element subjected to bending moments is the beam.

Shear Force and Bending Moment of Beam

- **TYPES OF BEAMS**: The following are the important types of beams:
- 1. Cantilever beam
- 2. Simply supported beam
- 3. Overhanging beam
- 4. Fixed beams and
- 5. Continuous beam.

Example of SFD & BMD

Shear Force & Bending Moment Diagram

