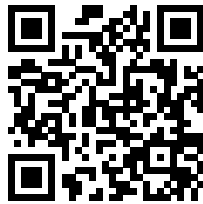




SoulShift - Educational Q&A Platform

General Questions

Practice Questions



Q1. For a cantilever beam with a point load at the free end, what is the deflection at the free end?

- A. $WL^3/(3EI)$
- B. $WL^3/(12EI)$
- C. $WL^2/(2EI)$
- D. $WL^4/(8EI)$

Solution: The deflection (δ) at the free end of a cantilever beam with a point load (W) at the end is given by $\delta = WL^3/(3EI)$, where E is the modulus of elasticity and I is the moment of inertia.

Q2. In a simply supported beam, what is the location of the maximum shear force?

- A. At the center
- B. At the supports
- C. At one-third points
- D. Uniformly distributed

Solution: The maximum shear force in a simply supported beam occurs at the supports.



