SoulShift

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 δ = 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.

SoulShift

SoulShift – Educational Q&A Platform © 2024–2025 | Licensed for individual use only | SS-36C15D65