SoulShift

SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. What is the formula for the shear force at a section of a simply supported beam with a point load at one end?

A. W
B. W/2
C. 0
D. W - wx

Solution: The shear force (V) at a section x from the left end of a simply supported beam with a point load (W) at one end is given by V = W - wx, where w is the distributed load per unit length.

Q2. For a simply supported beam with a uniformly distributed load, what is the location of the maximum bending moment?

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

Solution: The maximum bending moment for a simply supported beam with a uniformly distributed load occurs at the center of the beam.

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