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SoulShift – Educational Q&A Platform

General Questions

Practice Questions

Q1. What is the relationship between the moment of inertia and the deflection of a beam?

A. Directly proportional
B. Inversely proportional
C. No relationship
D. Exponential relationship

Solution: The deflection of a beam is inversely proportional to the moment of inertia (I); as I increases, deflection decreases.

Q2. What is the formula for calculating the reaction forces at the supports of a simply supported beam with a uniform load?

A. wL/2
B. wL/4
C. wL/3
D. wL

Solution: The reaction forces at the supports of a simply supported beam with a uniform load (w) are each equal to wL/2.

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