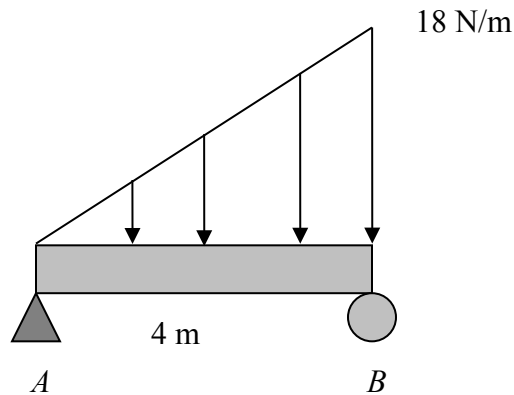


TOPIC

Engineering Mechanics (Statics and Dynamics) – Section VII – Question 1

QUESTION

The beam is loaded as shown with a linearly distributed load. The beam is 4m long and its cross-sectional shape is $0.2m \times 0.2m$ square. The Young's modulus of the beam is 210 GPa, and Poisson's ratio is 0.3. The reaction at point A is most nearly

- (A) 12 N
- (B) 18 N
- (C) 24 N
- (D) 36 N

HINT

Sum the reactions at A and B to the applied load
Sum the moments at A or B.

CONTRIBUTOR

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