

Continuum Mechanics: Statics Problems - Statics Review

1. A beam is supported by a pin support at the left end and a roller support at the right end. The beam is subjected to a uniformly distributed load of 10 kN/m acting downwards. The beam has a length of 10 m . Determine the reaction forces at the supports.

$$\sum F_y = 0 \Rightarrow R_L + R_R - 10 \times 10 = 0$$

$$\sum M_L = 0 \Rightarrow R_R \times 10 - 10 \times 10 \times 5 = 0$$



2. A beam is supported by a pin support at the left end and a roller support at the right end. The beam is subjected to a point load of 20 kN acting downwards at the midpoint. The beam has a length of 10 m . Determine the reaction forces at the supports.

$$\sum F_y = 0 \Rightarrow R_L + R_R - 20 = 0$$

$$\sum M_L = 0 \Rightarrow R_R \times 10 - 20 \times 5 = 0$$

$$Q = -10 \frac{\text{kN}}{\text{m}} \quad E = 200 \text{ GPa}$$

3. A beam is supported by a pin support at the left end and a roller support at the right end. The beam is subjected to a point load of 20 kN acting downwards at the midpoint. The beam has a length of 10 m . Determine the reaction forces at the supports.

$$\sum F_y = 0 \Rightarrow R_L + R_R - 20 = 0$$

$$\sum M_L = 0 \Rightarrow R_R \times 10 - 20 \times 5 = 0$$



4. A beam is supported by a pin support at the left end and a roller support at the right end. The beam is subjected to a point load of 20 kN acting downwards at the midpoint. The beam has a length of 10 m . Determine the reaction forces at the supports.

$$\sum F_y = 0 \Rightarrow R_L + R_R - 20 = 0$$

$$\sum M_L = 0 \Rightarrow R_R \times 10 - 20 \times 5 = 0$$

Diagram of a beam of length 10m with a pin support at the left end and a roller support at the right end. A point load of 20 kN is applied downwards at the midpoint (5m).

$$Q = -10 \frac{\text{kN}}{\text{m}} \quad E = 200 \text{ GPa}$$



5. A beam is supported by a pin support at the left end and a roller support at the right end. The beam is subjected to a point load of 20 kN acting downwards at the midpoint. The beam has a length of 10 m . Determine the reaction forces at the supports.

$$\sum F_y = 0 \Rightarrow R_L + R_R - 20 = 0$$

$$\sum M_L = 0 \Rightarrow R_R \times 10 - 20 \times 5 = 0$$

Diagram of a beam of length 10m with a pin support at the left end and a roller support at the right end. A point load of 20 kN is applied downwards at the midpoint (5m).

$$Q = -10 \frac{\text{kN}}{\text{m}} \quad E = 200 \text{ GPa}$$

6. A beam is supported by a pin support at the left end and a roller support at the right end. The beam is subjected to a point load of 20 kN acting downwards at the midpoint. The beam has a length of 10 m . Determine the reaction forces at the supports.



$$Q = -10 \frac{\text{kN}}{\text{m}} \quad E = 200 \text{ GPa}$$

7. A beam is supported by a pin support at the left end and a roller support at the right end. The beam is subjected to a point load of 20 kN acting downwards at the midpoint. The beam has a length of 10 m . Determine the reaction forces at the supports.

$$\sum F_y = 0 \Rightarrow R_L + R_R - 20 = 0$$

$$\sum M_L = 0 \Rightarrow R_R \times 10 - 20 \times 5 = 0$$

$$Q = -10 \frac{\text{kN}}{\text{m}} \quad E = 200 \text{ GPa}$$

8. A beam is supported by a pin support at the left end and a roller support at the right end. The beam is subjected to a point load of 20 kN acting downwards at the midpoint. The beam has a length of 10 m . Determine the reaction forces at the supports.

$$\sum F_y = 0 \Rightarrow R_L + R_R - 20 = 0$$

$$\sum M_L = 0 \Rightarrow R_R \times 10 - 20 \times 5 = 0$$



9. A beam is supported by a pin support at the left end and a roller support at the right end. The beam is subjected to a point load of 20 kN acting downwards at the midpoint. The beam has a length of 10 m . Determine the reaction forces at the supports.

$$\sum F_y = 0 \Rightarrow R_L + R_R - 20 = 0$$

$$\sum M_L = 0 \Rightarrow R_R \times 10 - 20 \times 5 = 0$$



$$Q = -10 \frac{\text{kN}}{\text{m}} \quad E = 200 \text{ GPa}$$

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