

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 center of the beam. The beam has a length of 10 m . Determine the reaction forces at the supports.

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

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

$$R_L = 10 \text{ kN}$$

$$R_R = 10 \text{ kN}$$

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 center of the beam. 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 center of the beam. The beam has a length of 10 m . Determine the reaction forces at the supports.

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

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

Reaction forces:

$$R_L = 10 \text{ kN}$$

$$R_R = 10 \text{ kN}$$



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 center of the beam. The beam has a length of 10 m . Determine the reaction forces at the supports.

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

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

Reaction forces:

$$R_L = 10 \text{ kN}$$

$$R_R = 10 \text{ kN}$$

$$R_L = 10 \text{ kN}$$

$$R_R = 10 \text{ kN}$$

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 center of the beam. The beam has a length of 10 m . Determine the reaction forces at the supports.



(a)

(b)

(c)

(d)

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

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

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 center of the beam. The beam has a length of 10 m . Determine the reaction forces at the supports.

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

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

Reaction forces:

(a)

(b)

$$R_L = 10 \text{ kN}$$

$$R_R = 10 \text{ kN}$$

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 center of the beam. The beam has a length of 10 m . Determine the reaction forces at the supports.

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

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

Reaction forces:

(a)

(b)

$$R_L = 10 \text{ kN}$$

$$R_R = 10 \text{ kN}$$

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 center of the beam. The beam has a length of 10 m . Determine the reaction forces at the supports.

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

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

Reaction forces:

(a)

(b)

$$R_L = 10 \text{ kN}$$

$$R_R = 10 \text{ kN}$$

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

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

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Albert A Gayle

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