

Continuum Mechanics: Static Problems - Static Equilibrium

1. A beam is subjected to a distributed load $q(x)$ and a point load P at its right end. The beam is fixed at its left end. Determine the reaction forces at the fixed end.

$$\sum F_x = 0 \Rightarrow R_x = 0$$

$$\sum F_y = 0 \Rightarrow R_y = \int_0^L q(x) dx + P$$

$$\sum M = 0 \Rightarrow M = \int_0^L q(x) x dx + PL$$



2. A beam is fixed at its left end and free at its right end. A distributed load $q(x)$ acts downwards along the entire length L . Determine the reaction forces at the fixed end.

$$\sum F_x = 0 \Rightarrow R_x = 0$$

$$\sum F_y = 0 \Rightarrow R_y = \int_0^L q(x) dx$$

$$\sum M = 0 \Rightarrow M = \int_0^L q(x) x dx$$

$$Q = -\int q(x) dx + C_1$$

$$M = \int Q dx + C_2$$

3. A beam is fixed at its left end and free at its right end. A distributed load $q(x)$ acts downwards along the entire length L . Determine the reaction forces at the fixed end.

$$\sum F_x = 0 \Rightarrow R_x = 0$$

$$\sum F_y = 0 \Rightarrow R_y = \int_0^L q(x) dx$$

$$\sum M = 0 \Rightarrow M = \int_0^L q(x) x dx$$

4. A beam is fixed at its left end and free at its right end. A distributed load $q(x)$ acts downwards along the entire length L . Determine the reaction forces at the fixed end.

$$\sum F_x = 0 \Rightarrow R_x = 0$$

$$\sum F_y = 0 \Rightarrow R_y = \int_0^L q(x) dx$$

$$\sum M = 0 \Rightarrow M = \int_0^L q(x) x dx$$



5. A beam is fixed at its left end and free at its right end. A distributed load $q(x)$ acts downwards along the entire length L . Determine the reaction forces at the fixed end.

$$\sum F_x = 0 \Rightarrow R_x = 0$$

$$\sum F_y = 0 \Rightarrow R_y = \int_0^L q(x) dx$$

$$\sum M = 0 \Rightarrow M = \int_0^L q(x) x dx$$

$$Q = -\int q(x) dx + C_1$$

$$M = \int Q dx + C_2$$

6. A beam is fixed at its left end and free at its right end. A distributed load $q(x)$ acts downwards along the entire length L . Determine the reaction forces at the fixed end.



$$Q = -\int q(x) dx + C_1$$

$$M = \int Q dx + C_2$$

7. A beam is fixed at its left end and free at its right end. A distributed load $q(x)$ acts downwards along the entire length L . Determine the reaction forces at the fixed end.

$$\sum F_x = 0 \Rightarrow R_x = 0$$

$$\sum F_y = 0 \Rightarrow R_y = \int_0^L q(x) dx$$

$$\sum M = 0 \Rightarrow M = \int_0^L q(x) x dx$$

$$Q = -\int q(x) dx + C_1$$

$$M = \int Q dx + C_2$$

8. A beam is fixed at its left end and free at its right end. A distributed load $q(x)$ acts downwards along the entire length L . Determine the reaction forces at the fixed end.

$$\sum F_x = 0 \Rightarrow R_x = 0$$

$$\sum F_y = 0 \Rightarrow R_y = \int_0^L q(x) dx$$

$$\sum M = 0 \Rightarrow M = \int_0^L q(x) x dx$$

$$Q = -\int q(x) dx + C_1$$

$$M = \int Q dx + C_2$$

$$Q = -\int q(x) dx + C_1$$

$$M = \int Q dx + C_2$$

Highschool Physics Multiple Choice

JR Anderson

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