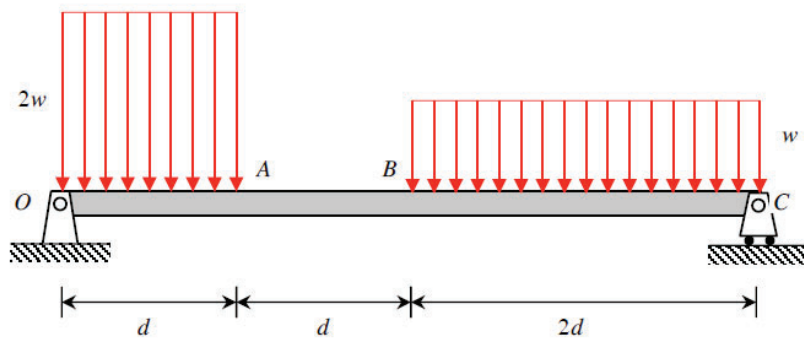


**Homework H12.A**

**Given:** The beam is loaded with the distributed load as shown.

**Find:** Calculate the magnitude and location of the single-force equivalent load.

Use the following parameter values for your work:  $d = 2\text{ m}$  and  $w = 400\text{ N/m}$ .



### Homework H12.B

**Given:** The beam is loaded with the distributed load as shown.

**Find:** Calculate the magnitude and location of the single-force equivalent load.

Use the following parameter values for your work:  $b = 6$  ft,  $d = 8$  ft,  $w_1 = 60$  lb/ft and  $w_2 = 100$  lb/ft.

