

2.6 A sand pile of 1000 kg accelerates from rest with 3 m/s^2 for a period of 10 s. What force is exerted and what is the final velocity?

Solution:

Constant acceleration can be integrated to get velocity:

$$a = \frac{\Delta v}{\Delta t} \rightarrow \int a dt = \int 3 dt \rightarrow \Delta v = 3t \rightarrow v = 3t = 30 \text{ m/s}$$

$$F = 1000 \text{ N} \rightarrow F = m a = 1000 \times 3 = 3000 \text{ N}$$

2.7 A 100 kg sand container has 1.75 kilogrammes of liquid propane inside. A force of 1200 newtons accelerates the system. What is the acceleration?

Solution:

$$m_{\text{total}} = \sum m_i \rightarrow m_{\text{total}} = 100 + 1.75 \text{ kg}$$

$$m_{\text{total}} = 100 + 1.75 = 101.75 \text{ kg} \rightarrow 101.75 \times 1.75 = 180.875 \text{ kg}$$

$$a = \frac{F}{m_{\text{total}}} = \frac{1200}{180.875} = 6.67 \text{ m/s}^2$$

2.8 A 1000 kg mass is pulled with the two equality being made above. One end goes straight down of 10 kg and the other end goes straight up 10 kg. Assuming constant gravitation and no friction in the pulley, what is the acceleration of the 1000 kg mass when released?

Solution:

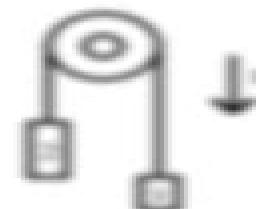
For the equation of motion for the mass m_1 along the downwards direction, in that case the mass m_1 moves upwards. Thus a_1 has the acceleration:

$$m_1 a_1 = m_1 g - m_1 g = m_1 a_1$$

$$m_1 a_1 = m_1 g \rightarrow a_1 = m_1 g = 10 \text{ m/s}^2$$

For the mass m_2 in the upwards direction:

$$m_2 a_2 = m_2 g - m_2 g = m_2 a_2 \rightarrow a_2 = 10 \text{ m/s}^2$$



2.9 A 5000 kg container of sand mass 1000 kg is raised by a crane with an acceleration of 2 m/s^2 relative to the ground at a location where the local gravitational acceleration is 9.8 m/s^2 . Find the required force.

Solution:

$$F = m a = F_{\text{app}} = m a$$

$$F_{\text{app}} = m a = m g = 5000 \times 2 = 10,000 \text{ N} = 10 \text{ kN}$$

Solution Manual For Fundamental Of Thermodynamics

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JE Gale

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