

- 2.6** A steel plate of 150 kg acceleration from rest with 3 m/s^2 for a period of 10s. What force is needed and what is the final velocity?

Solution:

Constant acceleration can be integrated to get velocity.

$$a = dV / dt \Rightarrow \int dV = \int a dt \Rightarrow \Delta V = a \Delta t = 3 \times 10 = 30 \text{ m/s}$$

$$V = 30 \text{ m/s}; \quad F = ma = 150 \times 3 = 2000 \text{ N}$$

- 2.7** A 15 kg steel container has 1.75 kilograms of liquid propellant inside. A force of 2 kN acts acceleration this system. What is the acceleration?

Solution:

$$ma = \sum F \Rightarrow a = \sum F / m$$

$$m = m_{\text{steel}} + m_{\text{propellant}} = 15 + 1.75 = 16.75 = 16.75 \text{ kg} = 162.165 \text{ kg}$$

$$a = 2000 / 162.165 = 12.3 \text{ m/s}^2$$

- 2.8** A rope hangs over a pulley with the two equally long ends down. One end and you attach a mass of 5 kg and on the other end you attach 10 kg. Assuming standard gravitation and no friction in the pulley, what is the acceleration of the 10 kg mass when released?

Solution:

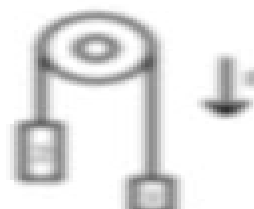
On the equation of motion for the mass m_1 along the downwards direction, in that case the mass m_2 moves up (i.e. has $-a$ for the acceleration)

$$m_1 a = m_1 g - m_2 g = m_1 a$$

$$(m_1 + m_2) a = (m_2 - m_1) g$$

This is not force in motion direction

$$a = (10 - 5)g / (10 + 5) = 5 \times g / 15 = 3.27 \text{ m/s}^2$$



- 2.9** A bucket of concrete of total mass 200 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 9.5 m/s^2 . Find the required force.

Solution:

$$F = ma = F_{\text{app}} - mg$$

$$F_{\text{app}} = ma + mg = 200(2 + 9.5) = 2200 \text{ N}$$

Thermodynamic Van Wylen 3 Edition Solution Manual

Mark Ahlers



Thermodynamic Van Wylen 3 Edition Solution Manual:

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