

2-2

- 2.1** The “standard” acceleration (at sea level and 45° latitude) due to gravity is 9.80665 m/s². What is the force needed to hold a mass of 2 kg at rest in this gravitational field ? How much mass can a force of 1 N support ?

Solution:

$$ma = 0 = \sum F = F - mg$$

$$F = mg = 2 \times 9.80665 = \mathbf{19.613 \text{ N}}$$

$$F = mg \quad \Rightarrow \quad m = F/g = 1 / 9.80665 = \mathbf{0.102 \text{ kg}}$$

- 2.2** A model car rolls down an incline with a slope so the gravitational “pull” in the direction of motion is one third of the standard gravitational force (see Problem 2.1). If the car has a mass of 0.45 kg. Find the acceleration.

Solution:

$$ma = \sum F = mg / 3$$

$$a = mg / 3m = g/3 = 9.80665 / 3 = \mathbf{3.27 \text{ m/s}^2}$$

- 2.3** A car drives at 60 km/h and is brought to a full stop with constant deceleration in 5 seconds. If the total car and driver mass is 1075 kg. Find the necessary force.

Solution:

Acceleration is the time rate of change of velocity.

$$ma = \sum F ; \quad a = dV / dt = (60 \times 1000) / (3600 \times 5) = 3.33 \text{ m/s}^2$$

$$F_{\text{net}} = ma = 1075 \times 3.333 = \mathbf{3583 \text{ N}}$$

- 2.4** A washing machine has 2 kg of clothes spinning at a rate that generates an acceleration of 24 m/s². What is the force needed to hold the clothes?

Solution:

$$F = ma = 2 \text{ kg} \times 24 \text{ m/s}^2 = \mathbf{48 \text{ N}}$$

- 2.5** A 1200-kg car moving at 20 km/h is accelerated at a constant rate of 4 m/s² up to a speed of 75 km/h. What are the force and total time required?

Solution:

$$a = dV / dt \Rightarrow \Delta t = dV/a = [(75 - 20) / 4] \times (1000 / 3600)$$

$$\Delta t = \mathbf{3.82 \text{ sec}} ; F = ma = 1200 \times 4 = \mathbf{4800 \text{ N}}$$

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**Richard Edwin Sonntag, Claus
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