

## THERMODYNAMICS

### SOLVED PROBLEMS

- Water falls over a waterfall 100m in height. Take 1kg of the water as the system, and assume that it does not exchange energy with its surroundings. (a) What is the potential energy of the water at the top of the falls with respect to the base of the falls? (b) What is the kinetic energy of the water just before it strikes bottom? (c) After the 1kg of water enters the stream below the falls, what change has occurred in its state?

$$a.) PE = mgh$$

$$PE = 1kg(9.81)(100m)$$

$$PE = 980 J$$

$$b.) PE = KE = 980 J$$

$$c.) KE = \Delta U = 980 J$$

- An astronaut weighs 730N in Houston, Texas, where the local acceleration of gravity is  $g = 9.792 \text{ m s}^{-2}$ . What are the astronaut's mass and weight on the moon, where  $g = 1.67 \text{ m s}^{-2}$ ?

$$F = mg$$

$$m = \frac{F}{g} = \frac{730N}{9.792 \frac{m}{s^2}}$$

$$m = 74.55 kg$$

$$F_{\text{moon}} = 74.55kg \left( 1.67 \frac{m}{s^2} \right)$$

$$F = 124.50 N$$

- A dead-weight gauge with a 1-cm-diameter piston is used to measure pressures very accurately. In a particular instance a mass of 6.14 kg (including piston and pan) brings it into balance. If the local acceleration of gravity is  $9.82 \text{ m s}^{-2}$ , what is the gauge pressure being measured? If the barometric pressure is 748 torr. What is the absolute pressure?

$$F = mg$$

$$F = 6.14 kg \left( 9.82 \frac{m}{s^2} \right)$$

$$F = 60.295 N$$

$$P_{\text{gauge}} = \frac{F}{A} = \frac{60.295 N}{\frac{\pi}{4} (0.01m)^2} = 767,699.78 \frac{N}{m^2}$$

# Engineering Thermodynamics Solved Problems

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