

Ans:

Since  $h$  has units of length and  $g$  has units of (length)(time)<sup>-2</sup>, let us divide both sides of the above equation by  $\sqrt{h/g}$ :

$$\frac{t}{\sqrt{h/g}} = \frac{f(h, m, g)}{\sqrt{h/g}}$$

The left side of this equation is now dimensionless. Therefore, the right side must also be dimensionless, which implies that the time of flight cannot depend on the mass of the object. Thus dimensional analysis implies the following functional relationship:

$$t = \alpha \sqrt{\frac{h}{g}}$$

where  $\alpha$  is a dimensionless constant. Only one experiment would be required to estimate  $\alpha$ , but several trials at various heights might be advisable to obtain a reliable estimate of this constant. Note that  $\alpha = \sqrt{2}$  according to Newton's laws of motion.

## CHAPTER 2

**2.1** According to Eq. (2.25), the energy required to increase the crack area a unit amount is equal to *twice* the fracture work per unit surface area,  $w_f$ . Why is the factor of 2 in this equation necessary?

Ans:

The factor of 2 stems from the difference between *crack area* and *surface area*. The former is defined as the projected area of the crack. The surface area is twice the crack area because the formation of a crack results in the creation of two surfaces. Consequently, the material resistance to crack extension =  $2 w_f$ .

**2.2** Derive Eq. (2.30) for both load control and displacement control by substituting Eq. (2.29) into Eqs. (2.27) and (2.28), respectively.

Ans:

(a) Load control.

$$\mathcal{G} = \frac{P}{2B} \left( \frac{d\Delta}{da} \right)_P = \frac{P}{2B} \left( \frac{d[CP]}{da} \right)_P = \frac{P}{2B} \frac{dC}{da}$$

# Pain 3rd Edition Solution Manual

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