

1-13

What is the mass in slugs of a body weighing 500 lb?

Solution.

$$g = 32.2 \text{ ft/s}^2 \text{ (on earth)}$$

$$F = ma$$

$$m = \frac{F}{a} = \frac{500 \text{ lb}}{32.2 \text{ ft/s}^2} = 15.53 \text{ slugs}$$