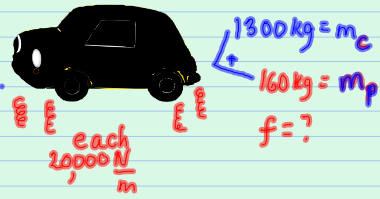


Ex 13.6 p402



$$\frac{1460 \text{ kg}}{4} = 365 \text{ kg}$$

$$T = 2\pi \sqrt{\frac{365}{20,000}} = .85 \text{ s}$$

$$f = \frac{1}{.85} = 1.18 \text{ Hz}$$

time for 1 cycle

$$T = 2\pi \sqrt{\frac{m}{k}} \quad \text{p 400}$$

period
tau

seconds

$$T = \frac{1}{f}$$

frequency

$$\frac{1}{s} = s^{-1} = \text{Hertz}$$

Hz

x^{-1}

inverse

$\frac{1}{x}$