

Chapter 13, Solution 1.

Given: Weight of satellite,

$$W = 1000 \text{ lb}$$

Speed of satellite,

$$v = 14,000 \text{ mi/hr}$$

Find: Kinetic energy, T

$$v = (14,000 \text{ mi/hr})(5280 \text{ ft/mi})\left(\frac{1 \text{ hr}}{3600 \text{ s}}\right) = 20,533 \text{ ft/s}$$

$$\text{Mass of satellite} = \frac{(1000 \text{ lb})}{(32.2 \text{ ft/s}^2)} = 31.0559 \text{ lb}\cdot\text{s}^2/\text{ft}$$

$$T = \frac{1}{2} mv^2 = \frac{1}{2}(31.0559)(20,533)^2 = 6.5466 \times 10^9 \text{ lb}\cdot\text{ft}$$

$$T = 6.55 \times 10^9 \text{ lb}\cdot\text{ft}$$

Note: Acceleration of gravity has no effect on the mass of the satellite.

$$T = 6.55 \times 10^9 \text{ lb}\cdot\text{ft} \quad \blacktriangleleft$$

Cosmos Complete Solutions Manual

J Spring



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