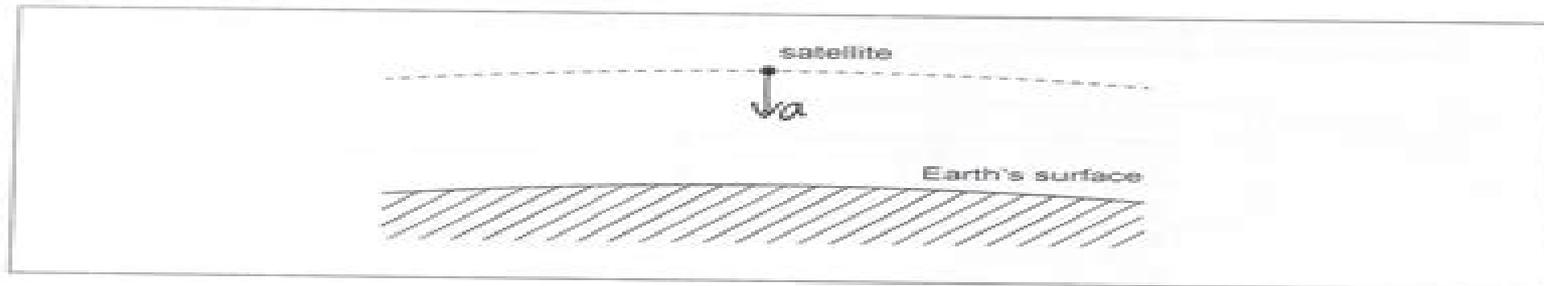


3. A satellite moves around Earth in a circular orbit.



(a) Draw an arrow on the diagram to represent the direction of the acceleration of the satellite.

[1]

(b) The following data are given:

- Mass of Earth, $M = 5.97 \times 10^{24}$ kg
- Radius of Earth, $R = 6.37 \times 10^6$ m
- Orbital period of the satellite, $T = 5.62 \times 10^3$ s

(i) Kepler's Third Law of orbital motion states that $T^2 = kr^3$ where k is a constant and r is the orbital radius of the satellite.

Show that $k = \frac{4\pi^2}{GM}$

[1]

F_g provides the F_c

$$\frac{GMm}{r^2} = m/r \left(\frac{2\pi}{T}\right)^2$$

$$\frac{GM}{r^3} = \left(\frac{2\pi}{T}\right)^2 \quad \therefore k = \frac{4\pi^2}{GM}$$

$$4\pi^2 r^3 = GM T^2$$

$$T^2 = \frac{4\pi^2}{GM} r^3 \text{ (shown)}$$

(ii) Determine the height of the satellite above the Earth's surface.

[2]

$$T^2 = \frac{4\pi^2}{GM} r^3$$

$$\frac{T^2 \cdot GM}{4\pi^2} = r^3$$

$$\therefore r = \sqrt[3]{\frac{T^2 GM}{4\pi^2}}$$

$$\therefore h = \sqrt[3]{\frac{T^2 GM}{4\pi^2}} - R_E$$

$$= \sqrt[3]{\frac{6.67 \times 10^{-11} \times (5.62 \times 10^3)^2 \times 5.97 \times 10^{24}}{4\pi^2}} - 6.37 \times 10^6$$

$$= 4.6 \times 10^5 \text{ m}$$


Ib Physics Sl 2past Paper

Mike Jess



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