

Physics XI Newton Physics

Chapter Gravitation (Planet and Satellite)

Page 535 onwards

$$(1) \quad F_e = \frac{k q_1 q_2}{r^2}$$

$$F_g = \frac{G m_1 m_2}{r^2}$$

$$\frac{F_e}{F_g} = \frac{k q_1 q_2}{G m_1 m_2} = \frac{9 \times 10^9 \times (1.6 \times 10^{-19})^2}{6.67 \times 10^{-11} \times 9.1 \times 1.7 \times 10^{-31}}$$
$$= 4.5 \times 10^{40}$$

$$(2) \quad g = \frac{GM_e}{R^2} \Rightarrow \frac{6.67 \times 10^{-11} \times 7.34 \times 10^{22}}{(1.75 \times 10^6)^2}$$
$$= 1.6 \text{ m/s}^2$$

$$(3) \quad g = \frac{GM_e}{R_e^2} \Rightarrow M_e = \frac{g R_e^2}{G}$$
$$= \frac{9.81 \times (6.37 \times 10^6)^2}{6.67 \times 10^{-11}}$$
$$= 6.0 \times 10^{24} \text{ kg}$$

again

$$\rho = \frac{M}{V} = \frac{6.0 \times 10^{24} \times \frac{4\pi}{3} R_e^3}{4 \times 3.14 \times (6.37 \times 10^6)^3}$$
$$= \frac{6.0 \times 10^{24} \times 3}{4 \times 3.14 \times (6.37 \times 10^6)^3}$$
$$= 5.5 \times 10^3 \text{ kg/m}^3$$

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