

Physics

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(Chapter 8) (Mechanical Properties of Solids) (Exercises) (Class 11)

Question 8.12:

Compute the bulk modulus of water from the following data: Initial volume = 100.0 litre, Pressure increase = 100.0 atm (1 atm = 1.013×10^5 Pa), Final volume = 100.5 litre. Compare the bulk modulus of water with that of air (at constant temperature). Explain in simple terms why the ratio is so large.

Answer 8.12:

Initial volume, $V_1 = 100.0 \text{ l} = 100.0 \times 10^{-3} \text{ m}^3$

Final volume, $V_2 = 100.5 \text{ l} = 100.5 \times 10^{-3} \text{ m}^3$

Increase in volume, $\Delta V = V_2 - V_1 = 0.5 \times 10^{-3} \text{ m}^3$

Increase in pressure, $\Delta p = 100.0 \text{ atm} = 100 \times 1.013 \times 10^5 \text{ Pa}$

$$\begin{aligned} \text{Bulk modulus} &= \frac{\Delta p}{\frac{\Delta V}{V_1}} = \frac{\Delta p \times V_1}{\Delta V} \\ &= \frac{100 \times 1.013 \times 10^5 \times 100 \times 10^{-3}}{0.5 \times 10^{-3}} = 2.026 \times 10^7 \text{ Pa} \end{aligned}$$

Bulk modulus of air = $1.0 \times 10^5 \text{ Pa}$

$$\therefore \frac{\text{Bulk modulus of water}}{\text{Bulk modulus of air}} = \frac{2.026 \times 10^7}{1.0 \times 10^5} = 2.026 \times 10^2$$

The ratio is very high because air is more compressible than water.

Question 8.13:

What is the density of water at a depth where pressure is 80.0 atm, given that its density at the surface is $1.03 \times 10^3 \text{ kg m}^{-3}$?

Answer 8.13:

Let the given depth be h . Pressure at the given depth, $p = 80.0 \text{ atm} = 80 \times 1.01 \times 10^5 \text{ Pa}$

Density of water at the surface, $\rho_1 = 1.03 \times 10^3 \text{ kg m}^{-3}$

Let ρ_2 be the density of water at the depth h , let V_1 be the volume of water of mass m at the surface.

Let V_2 be the volume of water of mass m at the depth h and let ΔV be the change in volume.

$$\Delta V = V_1 - V_2 = m \left(\frac{1}{\rho_1} - \frac{1}{\rho_2} \right)$$

$$\therefore \frac{\Delta V}{V_1} = 1 - \frac{\rho_1}{\rho_2} \quad \text{---(i)}$$

$$\text{Bulk modulus, } B = \frac{\rho V_1}{\Delta V}$$

$$\frac{\Delta V}{V_1} = \frac{\rho}{B}$$

$$\text{Compressibility of water} = \frac{1}{B} = 45.8 \times 10^{-11} \text{ Pa}^{-1}$$

$$\therefore \frac{\Delta V}{V_1} = 80 \times 1.013 \times 10^5 \times 45.8 \times 10^{-11} = 3.71 \times 10^{-3}$$

For equations (i) and (ii), we get:

$$1 - \frac{\rho_1}{\rho_2} = 3.71 \times 10^{-3} \Rightarrow \rho_2 = \frac{1.03 \times 10^3}{1 - (3.71 \times 10^{-3})} = 1.034 \times 10^3 \text{ kg m}^{-3}$$

Therefore, the density of water at the given depth (h) is $1.034 \times 10^3 \text{ kg m}^{-3}$.

Physics Chapter 8 Review Answers

Kenneth Rideout, Jonathan Wolf



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