

Physics

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(Chapter 9) (Mechanical Properties of Solids) (Additional Exercises)

(Class 11)

Question 9.21:

The Mariana trench is located in the Pacific Ocean, and at one place it is nearly eleven km beneath the surface of water. The water pressure at the bottom of the trench is about 1.1×10^8 Pa. A steel ball of initial volume 0.32 m^3 is dropped into the ocean and falls to the bottom of the trench. What is the change in the volume of the ball when it reaches to the bottom?

Answer 9.21:

Water pressure at the bottom, $p = 1.1 \times 10^8$ Pa

Initial volume of the steel ball, $V = 0.32 \text{ m}^3$

Bulk modulus of steel, $B = 1.6 \times 10^{11} \text{ Nm}^{-2}$

The ball falls at the bottom of the Pacific Ocean, which is 111 km beneath the surface.

Let the change in the volume of the ball on reaching the bottom of the trench be ΔV .

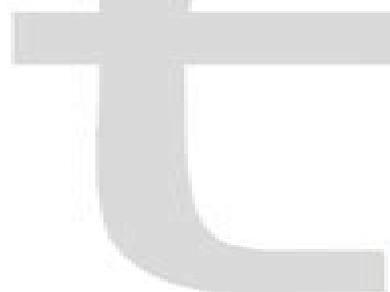
Bulk modulus,

$$B = \frac{p}{\frac{\Delta V}{V}}$$

$$\Delta V = \frac{B}{pV}$$

$$= \frac{1.1 \times 10^8 \times 0.32}{1.6 \times 10^{11}} = 2.2 \times 10^{-4} \text{ m}^3$$

Therefore, the change in volume of the ball on reaching the bottom of the trench is $2.2 \times 10^{-4} \text{ m}^3$.



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