

Fluid Mechanics

Questions and Answers

Question 1

A sealed cylinder of a volume of 20 liters contains highly compressed oil at a pressure of 1000 t/m^2 . Under atmospheric conditions, the oil has a specific gravity of 0.8. Find the mass of the compressed oil. (Compressibility coefficient = 200,000 t/m^2)

Solution

$$\frac{\Delta \rho}{\rho} = \frac{\Delta P}{K} = \frac{1000}{200000} = 0.005$$

$$\rho_{\text{compressed}} = 0.8 * 1000 * 1.005 = 804 \text{ kg}_w / \text{m}^3$$

$$M_{\text{compressed-oil}} = \rho_{\text{compressed}} V_{\text{compressed}} = 804 \left(\frac{20}{1000} \right) = 16.08 \text{ kg}$$

Question 2

State if the following statements are true (✓) or false (X)

1. A fluid is a substance, which deforms continuously when subjected to any shear stress
2. If $\tau_1 = 1000 \text{ Pa}$, $\tau_2 = 10 \text{ Kg/cm}^2$ then $\tau_1 < \tau_2$
3. A solid cylinder of S.G. = 3.2 will float on top of mercury
4. Liquids are less compressible than gases
5. At sunrise of a sunny day, the temperature of sand on a beach is higher than that of the seawater while at 2 hours before sunset the opposite is true.
6. If two identical jars, one filled with water and one filled with olive oil, are heated in the same oven for 2 minutes (same heat energy is absorbed by both), the water temperature will be higher than the oil temperature (for $T < 100^\circ\text{C}$)
7. Two air bubbles exist at the same level below the seawater surface. Bubble A has a diameter

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