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For water at 20 °C, we could just look it up in Table A-3, but we more usefully try to estimate B from the state relation (1-22). Thus, for a liquid, approximately,

$$B = \rho \frac{d}{d\rho} [p_o \{ (B+1)(\rho/\rho_o)^n - B \}] = n(B+1)p_o (\rho/\rho_o)^n = n(B+1)p_o$$
 at 1 atm

For water, B = 3000 and n = 7, so our estimate is

$$B_{water} \approx 7(3001)p_o = 21007 \text{ atm} \approx 2.13E9 \text{ Pa}$$
 Ans. (b)

This is 2.7% less than the value B = 2.19E9 Pa listed in Table A-3.

1.37 A near-ideal gas has M = 44 and $c_v = 610$ J/(kg·K). At 100 °C, what are (a) its specific heat ratio, and (b) its speed of sound?

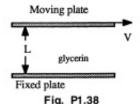
Solution: The gas constant is $R = \Lambda/M = 8314/44 \approx 189 \text{ J/(kg·K)}$. Then

$$c_v = R/(k-1)$$
, or: $k = 1 + R/c_v = 1 + 189/610 = 1.31$ Ans. (a) [It is probably N₂O]

With k and R known, the speed of sound at 100°C = 373 K is estimated by

$$a = \sqrt{kRT} = \sqrt{1.31[189 \text{ m}^2/(\text{s}^2 \cdot \text{K})](373 \text{ K})} \approx 304 \text{ m/s}$$
 Ans. (b)

1.38 In Fig. P1.38, if the fluid is glycerin at 20°C and the width between plates is 6 mm, what shear stress (in Pa) is required to move the upper plate at V = 5.5 m/s? What is the flow Reynolds number if "L" is taken to be the distance between plates?



Solution: (a) For glycerin at 20 °C, from Table 1.4, $\mu = 1.5 \text{ N} \cdot \text{s/m}^2$. The shear stress is found from Eq. (1) of Ex. 1.8:

$$\tau = \frac{\mu V}{h} = \frac{(1.5 \text{ Pa·s})(5.5 \text{ m/s})}{(0.006 \text{ m})} = 1380 \text{ Pa}$$
 Ans. (a)

The density of glycerin at 20° C is 1264 kg/m^3 . Then the Reynolds number is defined by Eq. (1.24), with L = h, and is found to be decidedly laminar, Re < 1500:

$$Re_L = \frac{\rho VL}{\mu} = \frac{(1264 \text{ kg/m}^3)(5.5 \text{ m/s})(0.006 \text{ m})}{1.5 \text{ kg/m} \cdot \text{s}} = 28$$
 Ans. (b)

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