

1.49 Determine the ratio of the dynamic viscosity of water to air at a temperature of 60 °C. Compare this value with the corresponding ratio of kinematic viscosities. Assume the air is at standard atmospheric pressure.

From Table B.2 in Appendix B:

$$(\text{for water at } 60^\circ\text{C}) \quad \mu = 4.665 \times 10^{-4} \frac{\text{N}\cdot\text{s}}{\text{m}^2}; \quad \nu = 4.745 \times 10^{-7} \frac{\text{m}^2}{\text{s}}$$

From Table B.4 in Appendix B:

$$(\text{for air at } 60^\circ\text{C}) \quad \mu = 1.97 \times 10^{-5} \frac{\text{N}\cdot\text{s}}{\text{m}^2}; \quad \nu = 1.86 \times 10^{-5} \frac{\text{m}^2}{\text{s}}$$

Thus,

$$\frac{\mu_{\text{H}_2\text{O}}}{\mu_{\text{air}}} = \frac{4.665 \times 10^{-4}}{1.97 \times 10^{-5}} = \underline{\underline{23.7}}$$

$$\frac{\nu_{\text{H}_2\text{O}}}{\nu_{\text{air}}} = \frac{4.745 \times 10^{-7}}{1.86 \times 10^{-5}} = \underline{\underline{2.55 \times 10^{-2}}}$$

Solution Manual For Fundamentals Of Fluid Mechanics

6th Edition Munson

**Bruce Roy Munson,Donald F.
Young,Theodore H. Okiishi**

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Fundamentals of Fluid Mechanics Bruce Roy Munson,Donald F. Young,Theodore Hisao

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Student Solutions Manual - Fundamentals of Fluid Mechanics Munson,2002-10-01

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