

## Problem 1A.1

**Estimation of dense-gas viscosity.** Estimate the viscosity of nitrogen at 68°F and 1000 psig by means of Fig. 1.3-1, using the critical viscosity from Table E.1. Give the result in units of  $\text{lb}_m/\text{ft} \cdot \text{s}$ . For the meaning of “psig,” see Table F.3-2.

*Answer:*  $1.4 \times 10^{-5} \text{ lb}_m/\text{ft} \cdot \text{s}$