P1.4 Sand, and other granular materials, definitely flow, that is, you can pour them from a container or a hopper. There are whole textbooks on the "transport" of granular materials [54]. Therefore, is sand a fluid? Explain.

Solution: Granular materials do indeed flow, at a rate that can be measured by "flowmeters". But they are not true fluids, because they can support a small shear stress without flowing. They may rest at a finite angle without flowing, which is not possible for liquids (see Prob. P1.3). The maximum such angle, above which sand begins to flow, is called the angle of repose. A familiar example is sugar, which pours easily but forms a significant angle of repose on a heaping spoonful. The physics of granular materials are complicated by effects such as particle cohesion, clumping, vibration, and size segregation. See Ref. 54 to learn more.

- P1.5 Show that energy per unit weight has the dimension of a length.
- Solution: Energy has the dimensions [ML²T⁻²]

Weight has the dimensions [MLT-2]

Hence,
$$\frac{\text{energy}}{\text{weight}}$$
 has the dimensions
$$\frac{[ML^2T^{-2}]}{[MLT^{-2}]} = [L]$$

Energy per weight of flow is also called 'head'.

For example, velocity head is

$$\frac{K.E.}{weight} = \frac{\frac{1}{2}mv^2}{mg} = \frac{v^2}{2g}$$

P1.6 A formula for estimating the mean free path of a perfect gas is:

$$\ell = 1.26 \frac{\mu}{\rho \sqrt{RT}} = 1.26 \frac{\mu}{p} \sqrt{RT}$$
 (1)

where the latter form follows from the ideal-gas law, ρ = p/RT. What are the dimensions of the constant "1.26"? Estimate the mean free path of air at 20°C and 7 kPa. Is air rarefied at this condition?

Solution: We know the dimensions of every term except "1.26":

$$\{\ell\} = \{L\} \quad \{\mu\} = \left\{\frac{M}{LT}\right\} \quad \{\rho\} = \left\{\frac{M}{L^2}\right\} \quad \{R\} = \left\{\frac{L^2}{T^2\Theta}\right\} \quad \{T\} = \{\Theta\}$$

Therefore the above formula (first form) may be written dimensionally as

$$\{L\} = \{1.267\} \frac{\{M/L \cdot T\}}{\{M/L^2\} \sqrt{\{\{L^2/T^2 \cdot \Theta\}\{\Theta\}\}}} = \{1.267\}\{L\}$$

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Marco Cascella

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