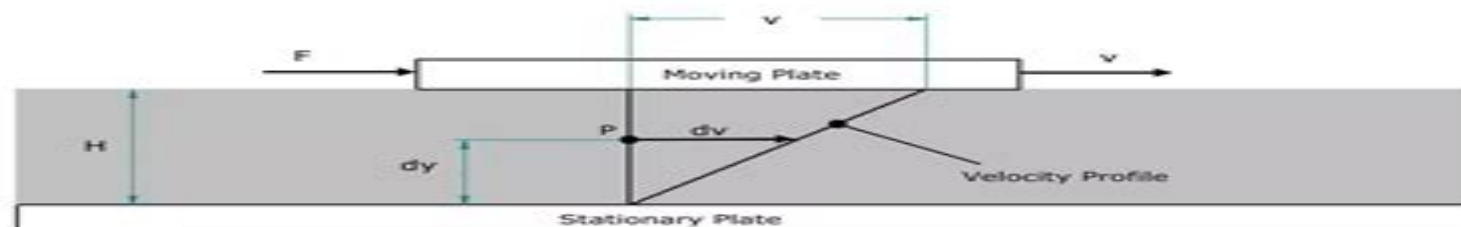


LECTURE UNIT NO. 2

8. Absolute Viscosity or Coefficient of Viscosity or Dynamic Viscosity or simply "Viscosity"

- Measures of the sluggishness with which a fluid flows. When the viscosity is low, indicative of a "thin" fluid like water, the fluid flows easily. Conversely, the "thickest" fluids, such as certain types of oil, are the most viscous and do not flow easily.

Mathematical Definition of Viscosity



$$\text{Slope} = \frac{dv}{dy} = \frac{v}{H} = \text{velocity gradient}$$

By experiment, force F is proportional to the plate area A and to the slope of the velocity profile.

$$F \propto A \frac{v}{H}$$

The constant of proportionality is called the absolute viscosity, μ

$$F = \mu \frac{v}{H} A$$

F/A is the shear stress developed in the fluid and acting on the bottom surface of the moving plate.

$$\mu = \frac{\tau}{v/H}$$

For two closely parallel plates, velocity gradient is constant

$$\mu = \frac{\tau}{dv/dy}$$

For non constant velocity gradient

Units of Absolute viscosity

Eng'g Units:

$$\frac{\text{lb}_f \cdot \text{sec}}{\text{ft}^2}$$

SI Units:

$$\frac{\text{N} \cdot \text{s}}{\text{m}^2} \text{ or Pa-s or Poise, P}$$

Note: 1 poise = 100 cP

1 poise = 1 dyne-s/cm² = 0.1 Pa - s

where: 10⁵ dynes = 1 N

Kinematic Viscosity

- Ratio of absolute viscosity to mass density of fluid

$$\nu = \frac{\mu}{\rho}$$

Eng'g Units:

$$\text{ft}^2/\text{sec}$$

SI Units:

$$\text{m}^2/\text{s}$$

Note: 1 stroke (S) = 1 cm²/s = 1 × 10⁻⁴ m²/s

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