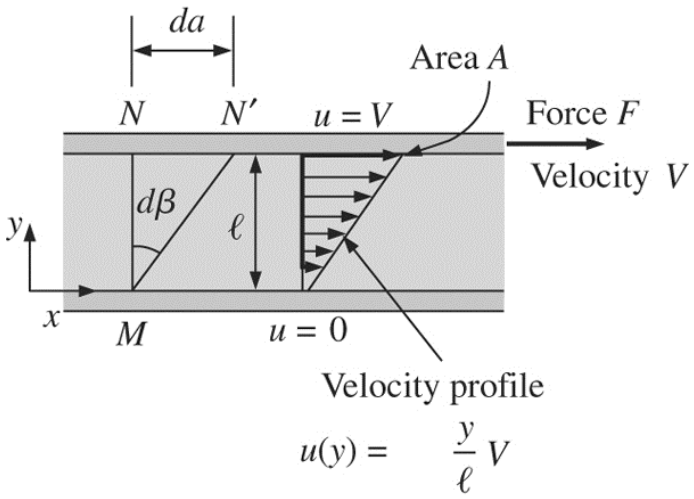
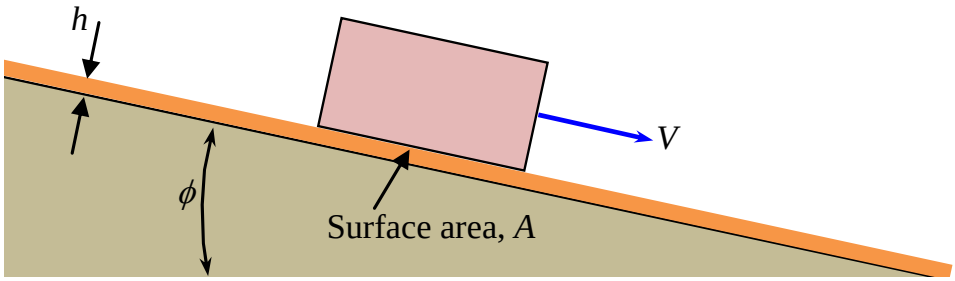
Today, we will:

- Continue our discussion about fluid properties from Chapter 2
- Do some example problems – viscosity and surface tension

3. Other (miscellaneous) properties
   a. speed of sound
   b. vapor pressure, P_v
   c. viscosity, μ, and kinematic viscosity, ν



Example: Viscosity



Given: A block of weight W and bottom surface area A slides steadily down an incline at speed V, riding on a thin film of oil of viscosity μ. The oil film thickness is h and the incline angle is ϕ as sketched.

To do: Calculate V as a function of the other variables (stay in variable form).

Solution: