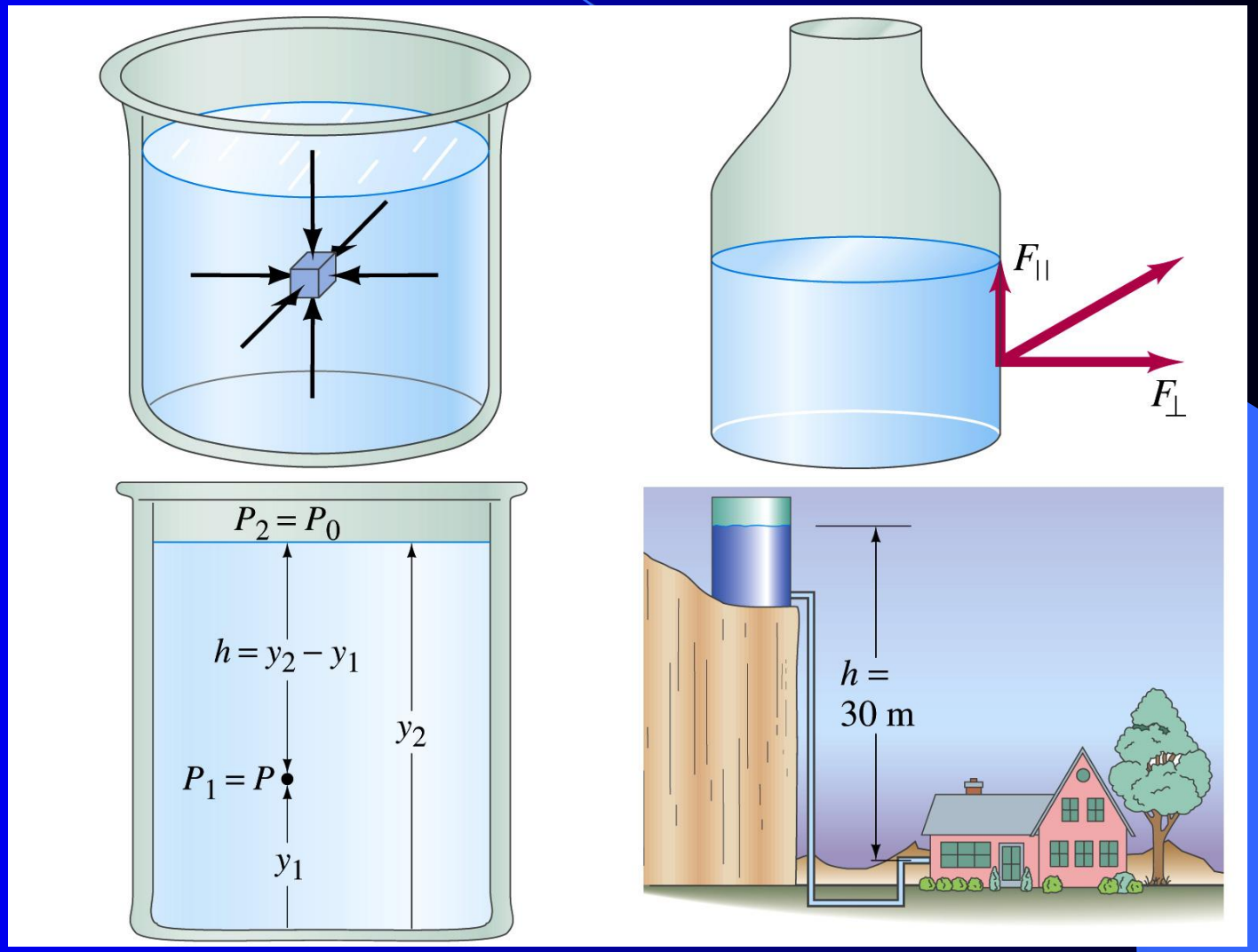
Density and Pressure

ρ=m/V
Unit: kg/m^3

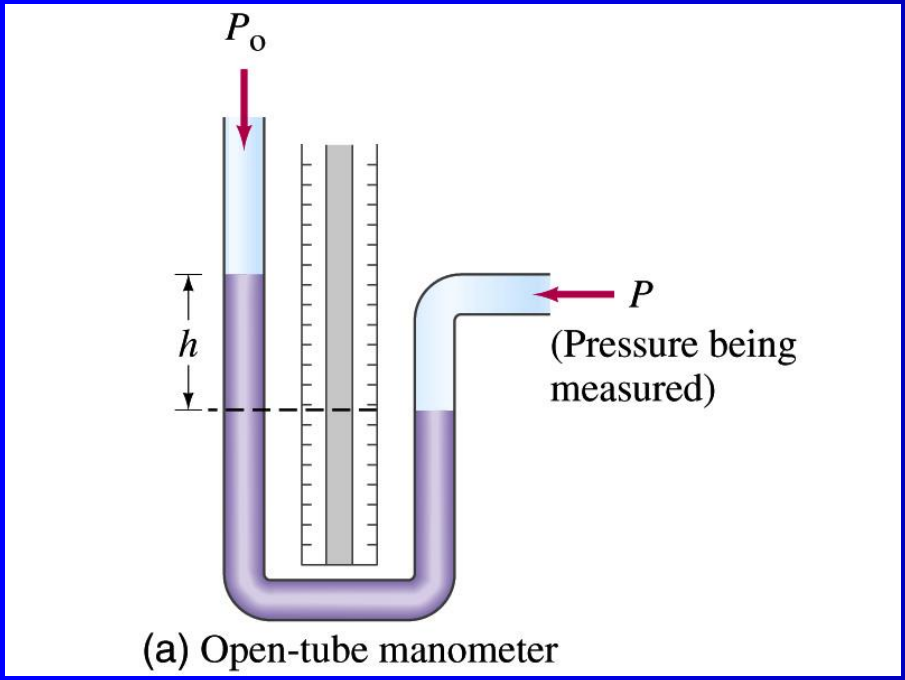
P=F$_\perp$/A
Unit: Pa=N/m^2
1 bar=100,000 Pa
1 mbar=100 Pa
1 psi=1 lb/in^2

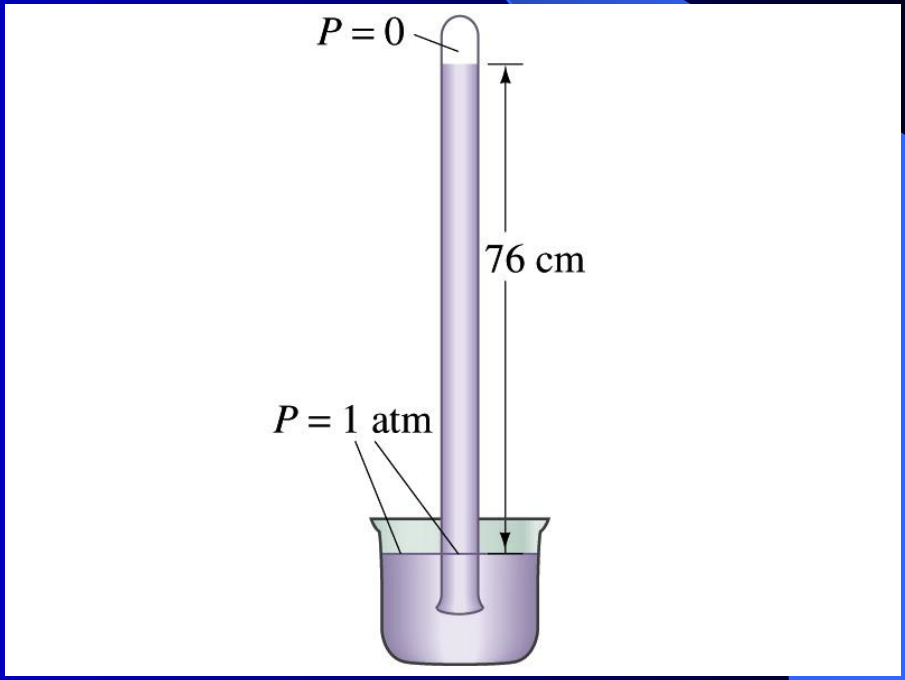


More Pressure

Pressure measurement:

$P = P_0 + \rho gh$





Archimedes Principle

The upwards force on an object is equal to the weight of the fluid displaced.

"Buoyancy"