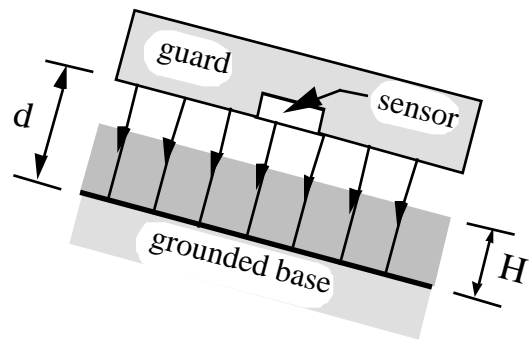
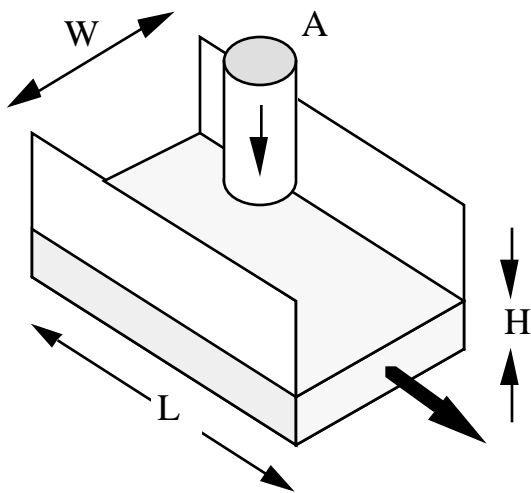


Basic flow parameters and instrumentation

grain diameter D , material density ρ_s ,
volume fraction ϕ , gravity g



Mass holdup $M/A \rho_s D = \int_0^H dz / D$

Relative mass flow rate $m^+ = \frac{\rho_s u W dy}{\rho_s \sqrt{gD} W D}$