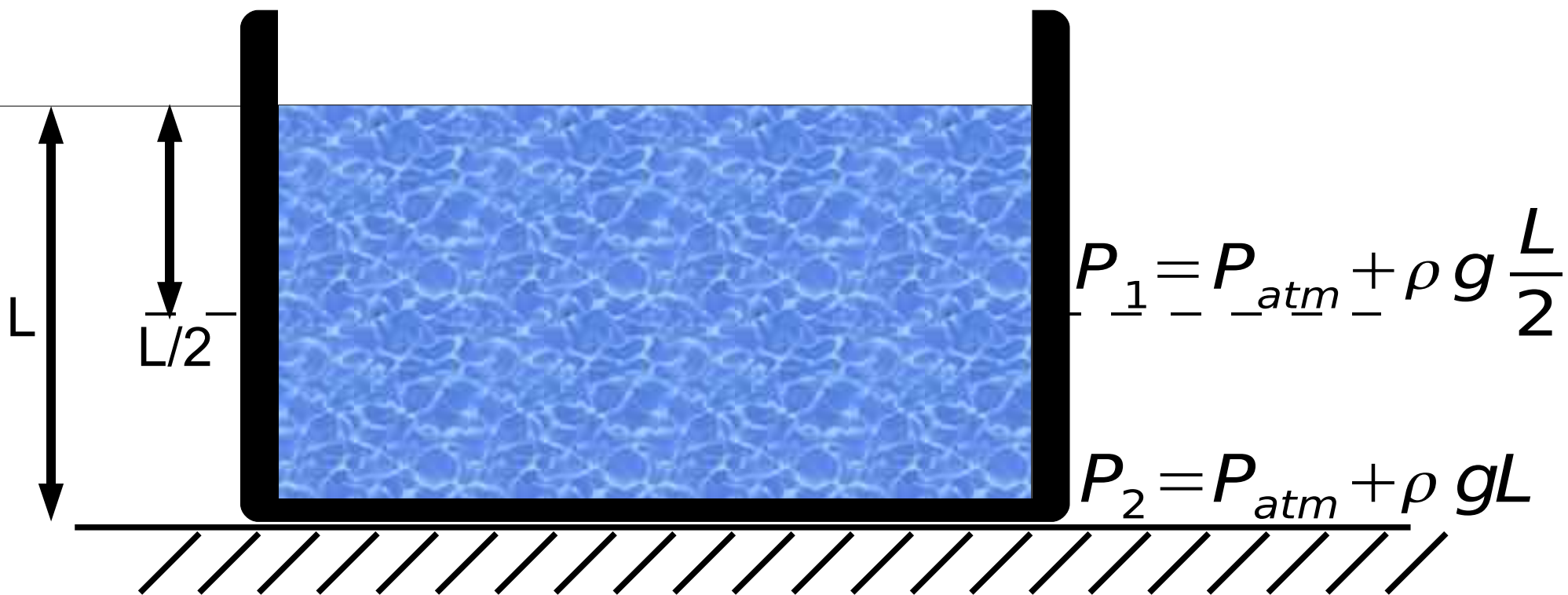
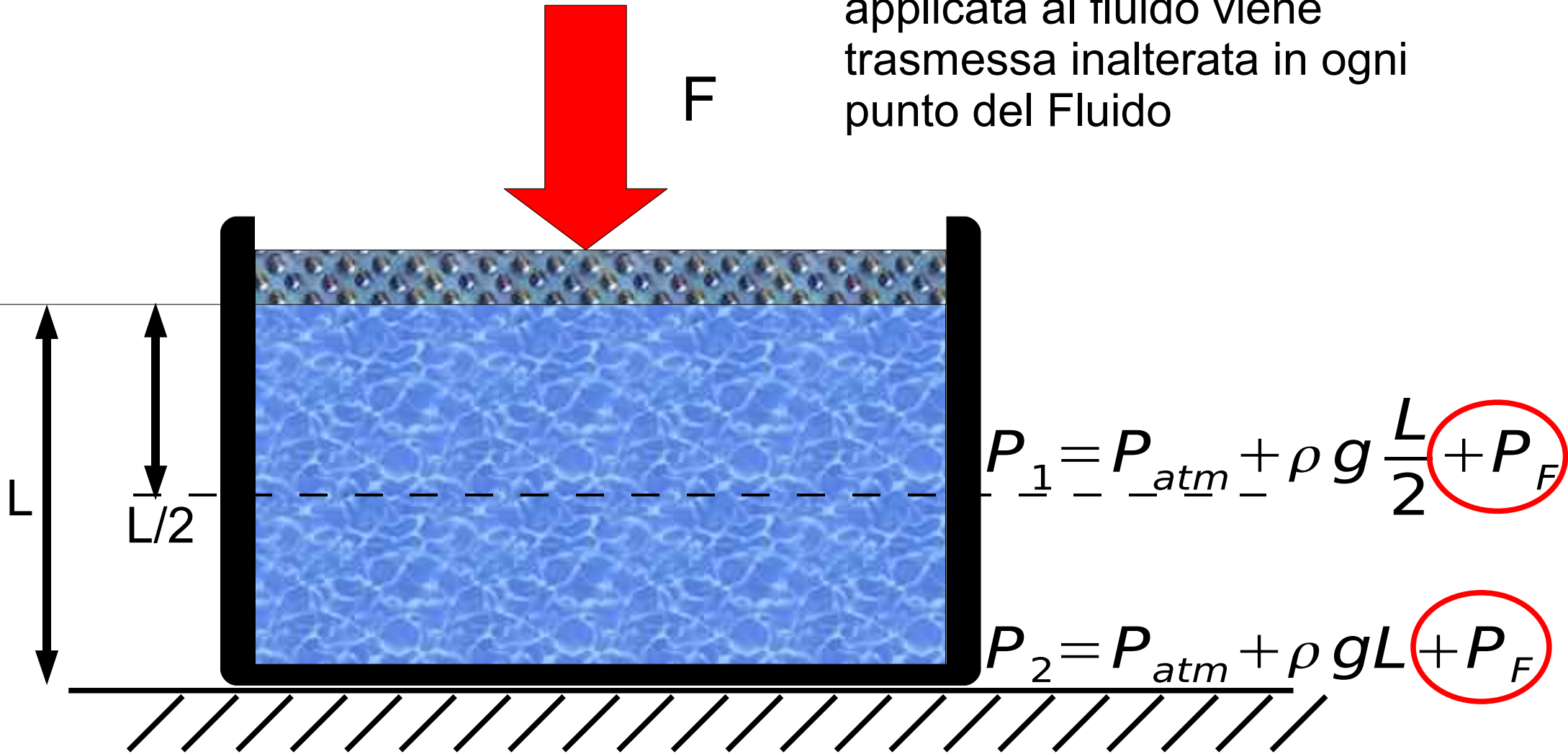


# Principio di Pascal

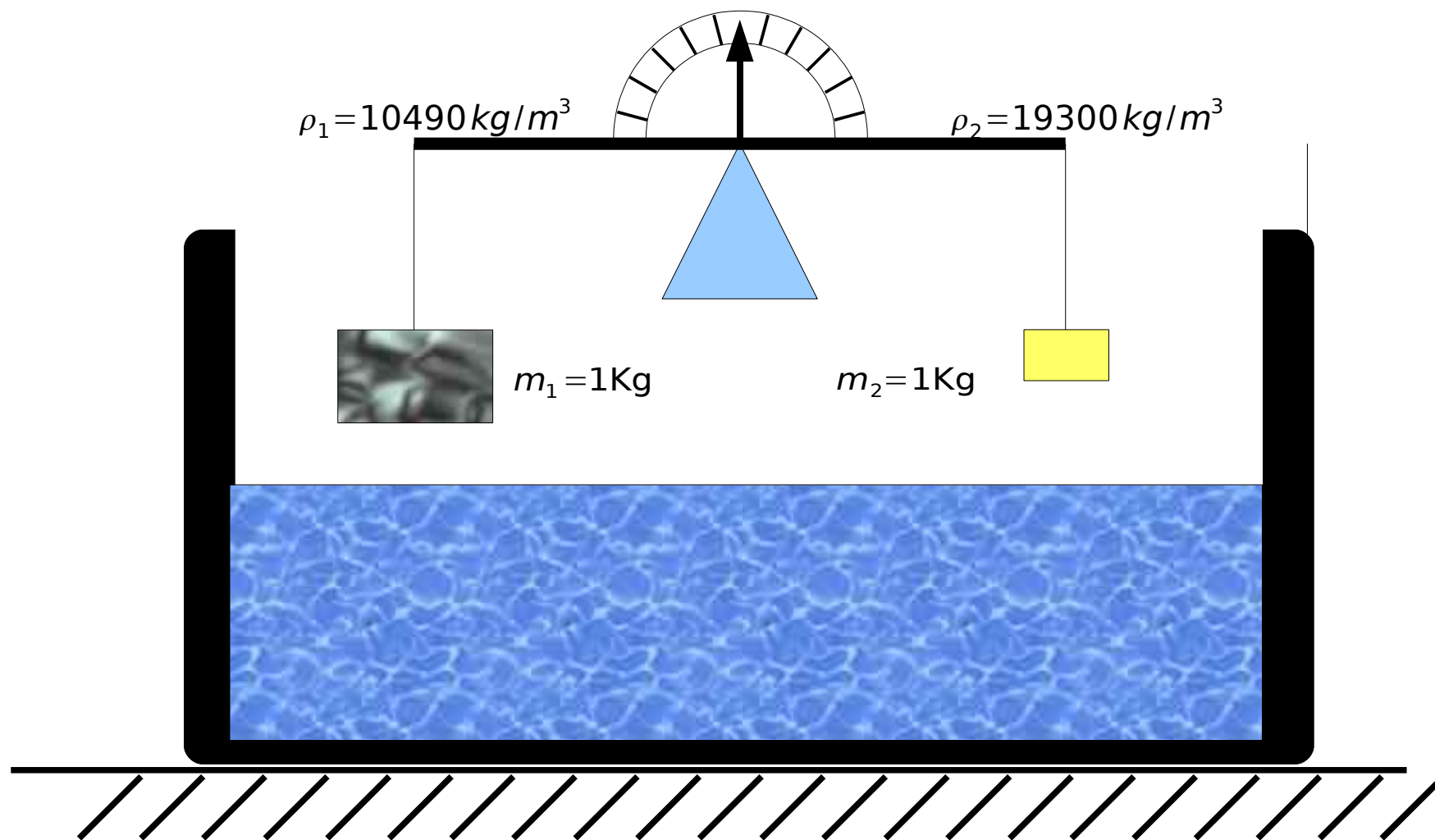


# Principio di Pascal

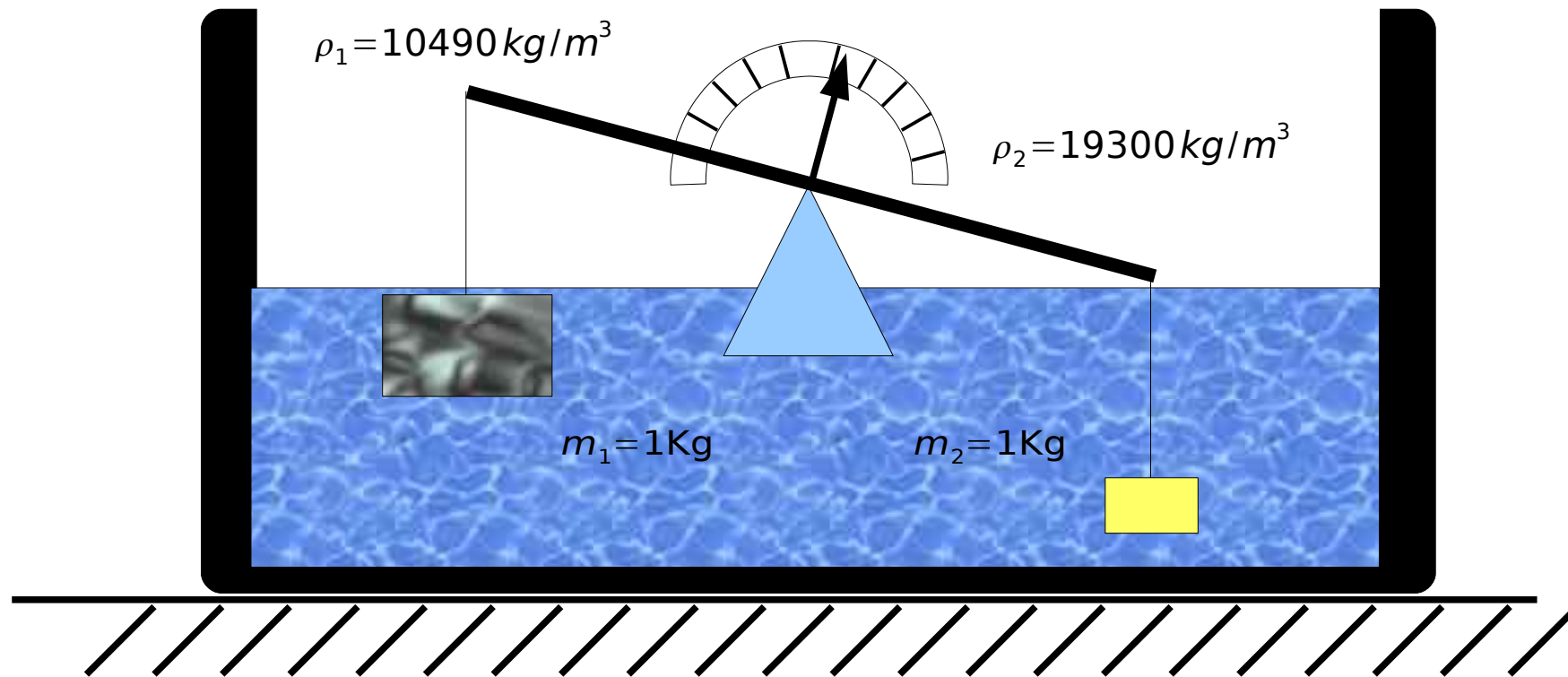
Una pressione esterna applicata al fluido viene trasmessa inalterata in ogni punto del fluido



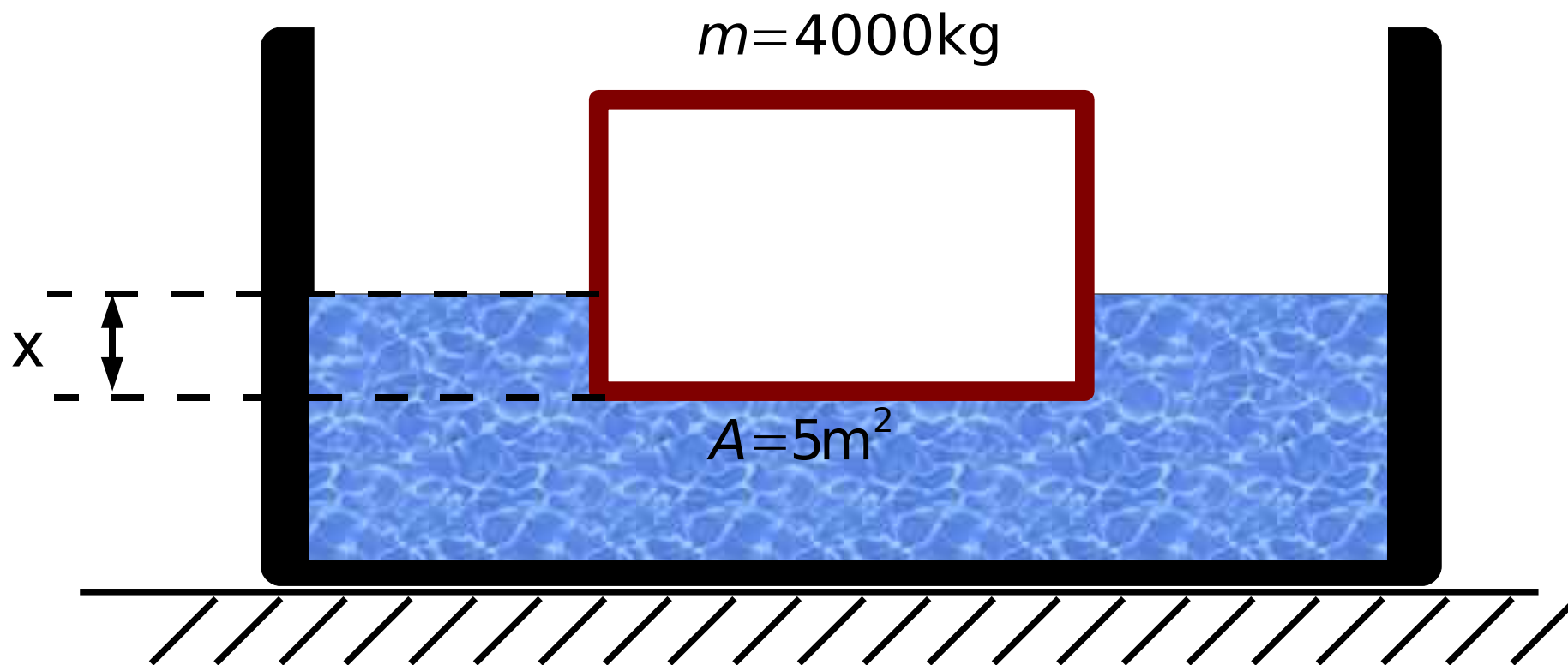
# Applicazione del principio di Archimede



# Applicazione del principio di Archimede



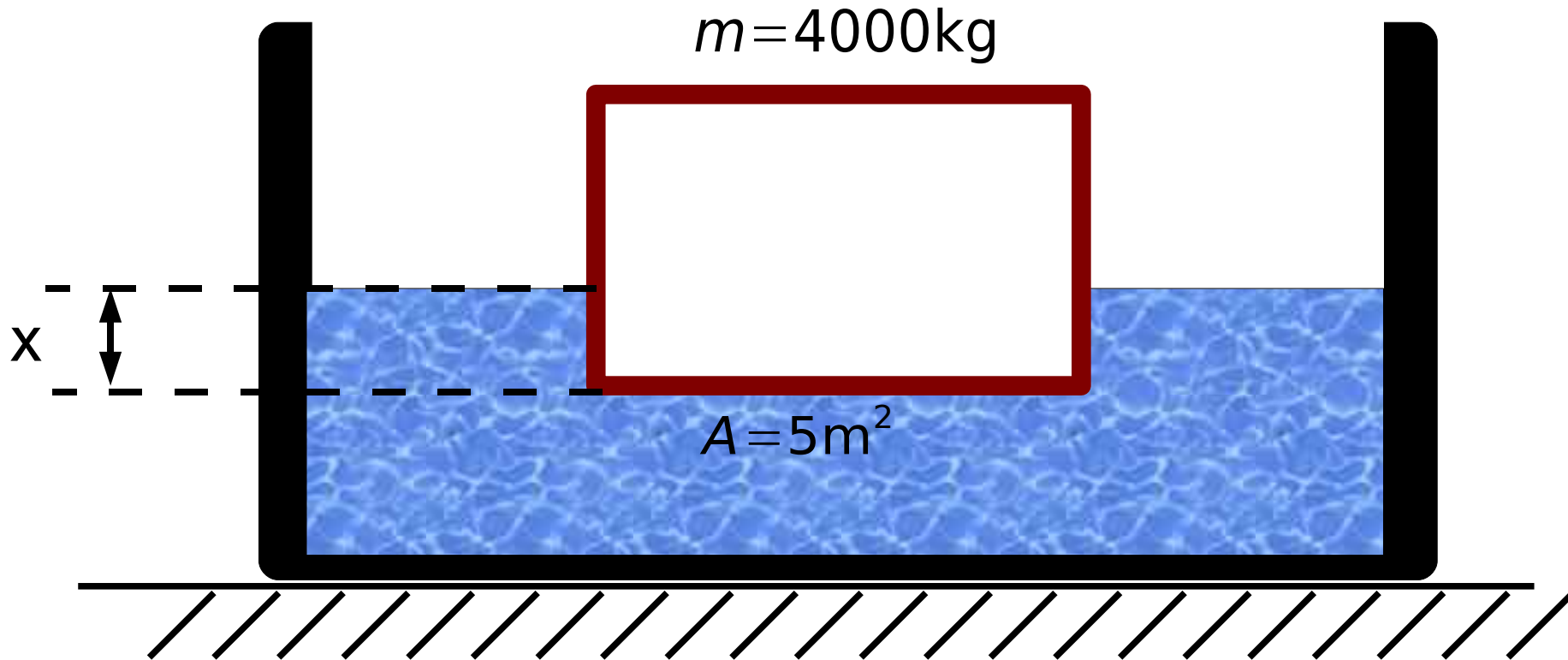
# Applicazione del principio di Archimede: il galleggiamento



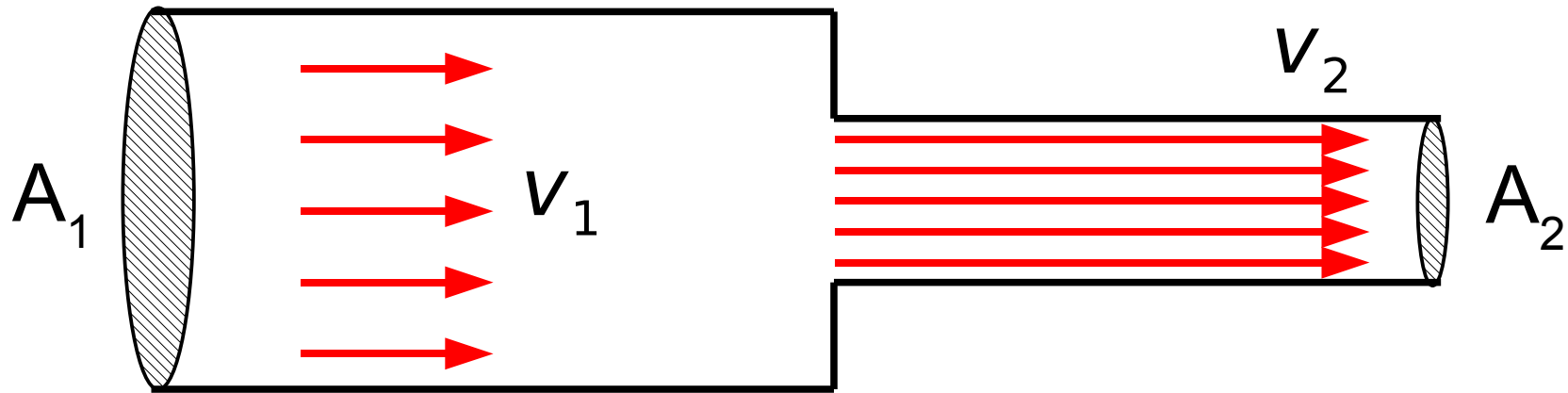
# Applicazione del principio di Archimede: il galleggiamento

$$V = xA$$

$$mg = \rho Vg \rightarrow x = \frac{m}{\rho A} = \frac{4000}{1000 \cdot 5} = 0.8\text{m}$$



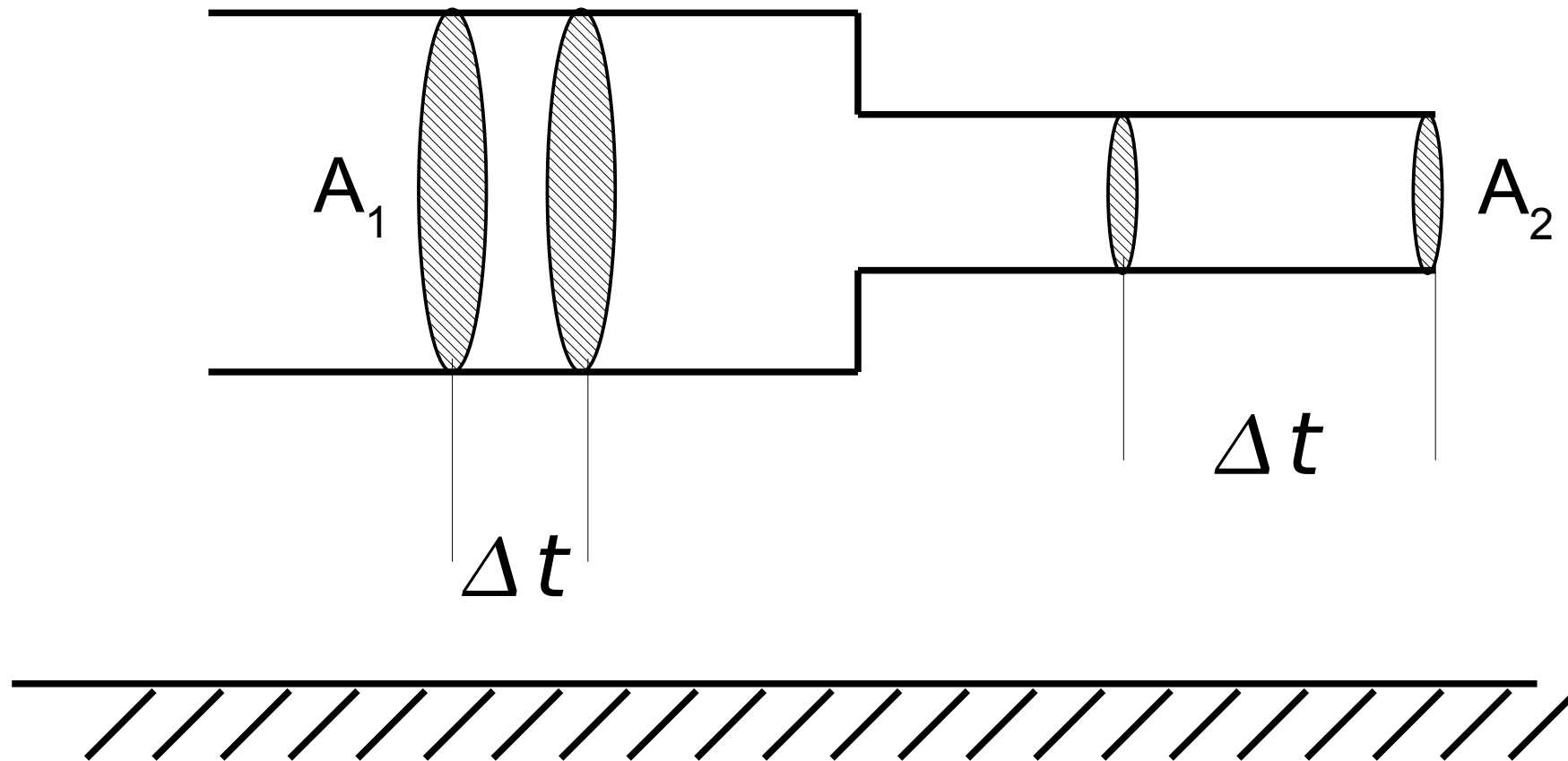
# Flusso di un fluido



# Flusso di un fluido

$$\Delta V_1 = A_1 v_1 \Delta t$$

$$\Delta m_1 = \rho \Delta V_1 = \rho A_1 v_1 \Delta t$$

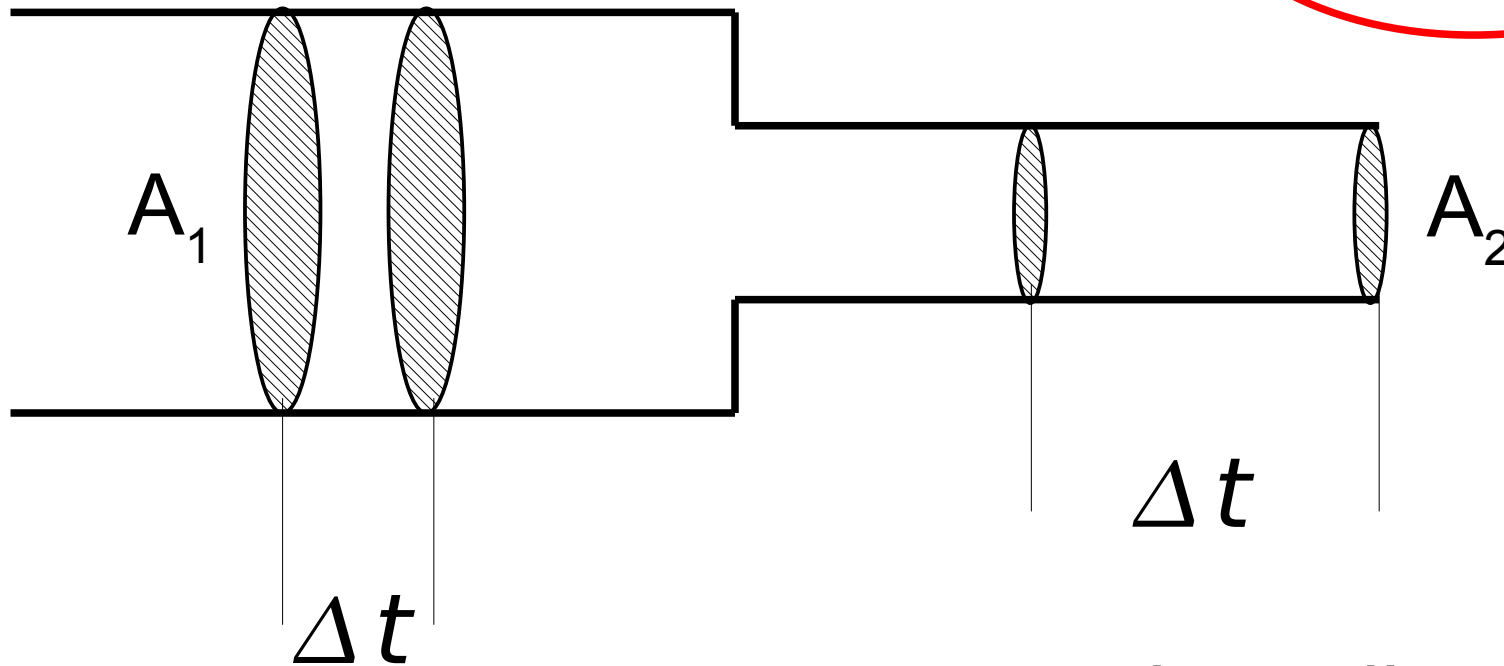




# Flusso di un fluido

$$\Delta m_1 = \rho \Delta V_1 = \rho A_1 v_1 \Delta t$$

$$\Delta m_1 = \Delta m_2 \rightarrow \rho A_1 v_1 \Delta t = \rho A_2 v_2 \Delta t \rightarrow A_1 v_1 = A_2 v_2$$



equazione di continuità

# Equazione di Bernouilli

$$P_1 + \frac{1}{2} \rho v_1^2 = P_2 + \frac{1}{2} \rho v_2^2$$

