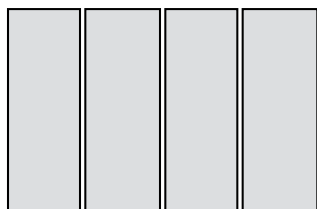


Surroundings

Mass (m_1, m_2, m_3
and m_4)



A_x (cross
sectional area)

P_1, V_1, T_1 and N_1

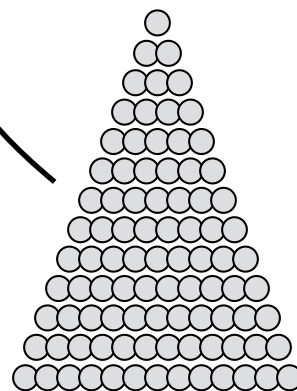
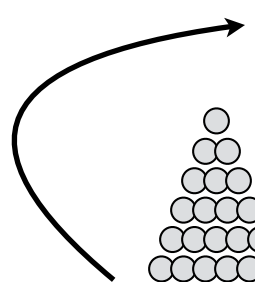
System

Reservoir at T_1

Irreversible

Surroundings

Infinitesimal change in
mass (dm)



A_x (cross
sectional area)

P_1, V_1, T_1 and N_1

System

Reservoir at T_1

Reversible