Control Volume

Mass:  $\int \rho \vec{v} \cdot \hat{n} dA = 0 \Rightarrow -\rho, V, A + \rho_z V_z A = 0$ 

Momentum:  $6 p \vec{V} \cdot \hat{n} / \vec{V} dA + 6 p \hat{n} dA + \vec{R} = 0$ 

-P,V,AV,î + P2V2AV2î - P,Aî+P2Aî+Rî=0

or 
$$\rho_1 V_1^2 + \rho_1 = \rho_2 V_2^2 + \rho_2 + P_3^2 + P_4^2 = \rho_2 V_2^2 + \rho_3^2 + \rho_4^2 + \rho_5^2 = \rho_5^2 V_5^2 + \rho_5^2 + \rho_5$$

Energy: 6 pt.n/hodA = JegdV + JpgotdV