$$O C_{A} = \frac{N_{A}}{V} \qquad \chi_{A} = \frac{N_{A}}{N_{A} + N_{B}}$$

$$Y_{A} = \frac{C_{A}}{C_{A} + C_{B}} \qquad P_{A} = \chi_{A} P = \left(\frac{N_{A}}{N_{A} + N_{B}}\right) P$$

$$Z_{A} = I \qquad Z_{A} = I$$

$$P_{B} = \left(\frac{N_{B}}{N_{A} + N_{B}}\right) P$$

② 
$$V = \underbrace{\frac{2 \operatorname{GiUi}}{2 \operatorname{Gi}}}$$
 $U = \underbrace{\frac{2 \operatorname{FiUi}}{2 \operatorname{Fi}}}$ 
 $V = \underbrace{2 \pi_A V_A + \underbrace{2 \pi_B V_B}}$ 

③  $N_A = C_A U_A$ 
 $J_A = C_A (U_A - U)$ 
 $J_A = C_A (U_A - U)$ 
 $N_B = C_B U_B$ 
 $J_B = C_B (U_B - U)$ 

⑤  $J_A = C_A (U_A - U)$ 
 $J_B = C_B (U_B - U)$ 

⑤  $J_A = C_A (U_A - V)$ 
 $J_B = C_B (U_B - U)$ 
 $J_A = C_A (U_A - V)$ 
 $J_B = C_B (U_B - U)$ 

(S)  $J_A = C_A (U_A - V)$ 
 $J_B = C_B (U_B - U)$ 
 $J_A = C_A (U_A - V)$ 
 $J_A = C_B (U_B - U)$ 

(If  $V$  is the reference velocity)

 $J_A = C_A U_A - \frac{C_A U_A + C_B U_B}{C_A + C_B}$ 
 $V_A + V_B$ 
 $V_B = V_B - \frac{C_B U_B U_B}{C_A + C_B U_B}$