

(7.5-4)

show

$$C(v_A - v_B) = - \frac{C D_{AB} \frac{dx_A}{dz}}{x_A x_B}$$

(1) $N_A = J_A^* + C_A v_M$

Table 7.5-1

$$N_A = C_A v_A \quad J_A^* = - C D_{AB} \frac{dx_A}{dz}$$

Eq. (7.5-2)

$$v_M = \frac{C_A v_A}{C} + \frac{C_B v_B}{C}$$

substitute into original equation (1) for N_A

(2) $C_A v_A = - C D_{AB} \frac{dx_A}{dz} + C_A \left[\frac{C_A v_A}{C} + \frac{C_B v_B}{C} \right]$

rearrange as follows.

$$C_A v_A = \frac{C}{C} C_A v_A = \frac{(C_A + C_B)}{C} C_A v_A = \frac{C_A C_A v_A}{C} + \frac{C_A C_B v_A}{C}$$

substitute into Eq. (2).

$$\frac{C_A C_A v_A}{C} + \frac{C_A C_B v_A}{C} = - C D_{AB} \frac{dx_A}{dz} + \frac{C_A C_A v_A}{C} + \frac{C_A C_B v_B}{C}$$

rearrange.

$$\frac{C_A C_B}{C} (v_A - v_B) = - C D_{AB} \frac{dx_A}{dz}$$

multiply left side by $C/x_A x_B$.

$$C \frac{C_A}{C} \frac{C_B}{C} (v_A - v_B) = C x_A x_B (v_A - v_B) = - C D_{AB} \frac{dx_A}{dz}$$

$$\boxed{C(v_A - v_B) = - \frac{C D_{AB} \frac{dx_A}{dz}}{x_A x_B}}$$

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