P+B -> C+D

P= 20 atm

$$T = 305 \text{ K}$$

$$W = 100 \text{ keg}$$

$$F_{AD} = 10 \text{ mol/min}$$

$$C_{AO} = 0.4 \text{ mol/dm}^3$$

$$X = 0.8$$

$$C_{AO} = Y_{AO} \frac{P_{ATO}}{RT_{O}}$$

$$= 0.5 \times \frac{20}{(0.082)(308)} = 0.4 \frac{mol}{dm^{3}}$$

$$\frac{dx}{dW} = \frac{-r_A}{F_{AO}} = \frac{k C_{AO} (1-x)^2 y^2}{F_{AO}}$$

$$= k C_{AO} (1-x)^2 y^2 (1-xW)$$

$$= \frac{k C_{AO} (1-x)^2 y^2 (1-xW)}{F_{AO}}$$

$$y = \frac{2}{20} = 0.1$$

$$\alpha = \frac{1-y^2}{w} = \frac{1-0.01}{100} = \frac{0.99}{100}$$

$$\frac{0.8}{1-0.8} = \frac{10^{-4}}{10} \left[\frac{9.9 \times 10^{3} \times 100^{3}}{2} \right]$$

For turbulent Plow

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