Acca Edilus Ca Ac Mu V20 00 Crack 231

DOWNLOAD

* Can also use
$$T_{xn} = \frac{(1.5 \frac{9}{Cm^3})(0.05 \text{ cm})(\frac{1}{12})}{(1)(\frac{1}{2})(Cmg)} \frac{1}{3.3 \times 10^{5}} \frac{1}{100} \frac{1}{100} \frac{1}{100} \frac{1}{100}$$

2. (50%) A 1-mm spherical carbon particle (p=1.5 g/cm³) reacts with oxygen from the air (total pressure = 1 atm; 21% O₂) according to the shrinking core model at 500 °C. The gas-phase mass transfer coefficient is 200 cm/s (see Appendix). The chemical reaction rate constant is 0.2 cm/s (based on the external surface area of the particle). The effective diffusivity of O₂ in the ash layer is unknown, but it is expected that ash layer diffusion is the RDS. Estimate the value of the effective diffusivity, by assuming that the ash-layer resistance term is at least a factor of 10 larger than the larger of the other two resistances. Is this a reasonable value?

Bonus. Let's understand the value of 0.2 cm/s for the chemical reaction rate constant. Show that this value means the following: If the reaction is $I^{\rm sl}$ order with respect to O_2 , 100% of the carbon would be consumed in I h.

Hint: 100% carbon consumption in 1 h means that the (average) rate is 1 g C/g C/h.

Rate =
$$\frac{C_A}{\frac{1}{R_0} + \frac{3}{R_0}} \left[\frac{mRO_2}{cm^2 \cdot s} \right]$$
 $D_e = ?$
 $\frac{1}{R_0} + \frac{R}{2D_0} + \frac{3}{R^0} \left[\frac{mRO_2}{cm^2 \cdot s} \right]$ $D_e = ?$
 $\frac{1}{R_0} = 0.005 \frac{s}{cm} : \frac{3}{R^0} = \frac{3}{0.2} : 15 \frac{s+10}{cm} = ?$ $R_0 = ?$

Note: The same result is obtained if used Trxn, Tay, Tash as the resistances.

Rate =
$$\frac{1}{100} = \frac{1}{100} = \frac{1}{100}$$

DOWNLOAD

UPDATE: 1 sec ago

1ea8611b2a