C2Hy +
$$\frac{1}{2}Q \rightarrow \frac{1}{2}$$

At 260°C

$$C' = \frac{1}{4!} P_{1}^{1/3} P_{8}^{1/3} \frac{1}{16} \frac{1}{$$

Ergun equation

- Pressure

Pu-superficial velocity dP = - G (1-p)M + 1.75G

Porosity

Reminer turbulent 32.174 lbm. ft/5°. lbg

$$P_{0}v_{0} = P_{0}v_{0} \Rightarrow P_{0} = P_{0}v_{0} = P_{0}v_{$$

$$\frac{dP}{dz} = -\frac{G(1-\phi)}{P_0 Q_0 D_0 \phi^3} \left[\frac{150(1-\phi)M}{D_0} + 1.756 \right] \frac{P_0}{P} \frac{T}{T_0} \frac{F_T}{F_{T_0}}$$

catalyst density

Let
$$W = (1-\phi)A_c \cdot Z \cdot P_c$$

$$B_b = \frac{G(1-\phi)}{P_b Q_c(P_b)^3} \left[\frac{150(1-\phi)M}{P_b} + 1.756 \right]$$

$$\frac{dP}{dW} = -\frac{\beta_0}{A_c(1-d)P_c} \frac{P_0}{P} \frac{T}{T_0} \frac{F_T}{F_{T0}}$$
 let $\alpha = \frac{2\beta_0}{A_c(1-p)P_c}$

$$\int \frac{dP}{dw} = -\frac{\alpha}{a} \frac{P_o}{P/P_o} \frac{F_7}{F_{70}}$$