

Chemical Reaction Engineering – Lecture # 4



$$t = N_{A0} \int_0^{X(i)} \frac{dX}{-r_A V}$$

← Design equation
for a *batch reactor*



$$V = \frac{F_{A0} X}{(-r_A)_{\text{exit}}}$$

← Design equation
for a *CSTR*



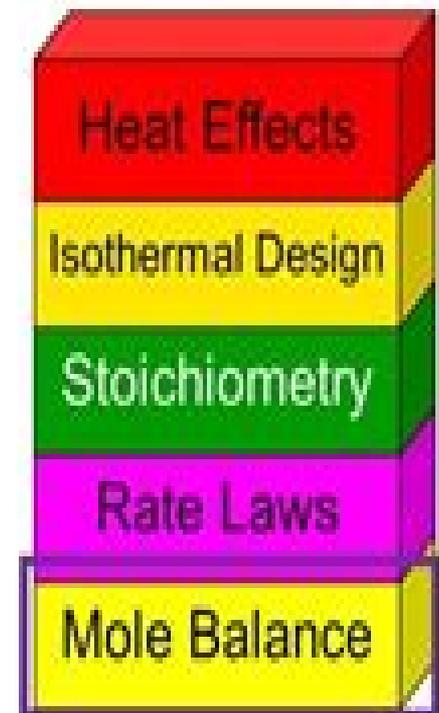
$$V = F_{A0} \int_0^X \frac{dX}{-r_A}$$

← Design equation
for a *PFR*



$$W = F_{A0} \int_0^X \frac{dX}{-r_A}$$

← Design equation
for a *PBR*



Chemical Reaction Engineering Notes

A Gutmann



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