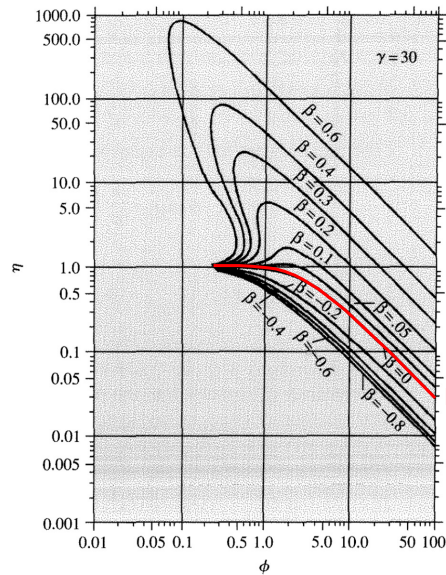


3.3.4 Internal heat transfer effects (continued)

Solved numerically for a sphere:



$$\beta = \frac{(-\Delta H_r) D_{TA}^e C_{AS}}{\lambda^e T_S}$$

- The reaction generates no heat for $\beta=0$ (isothermal RX), endothermic for $\beta<0$ and exothermic for $\beta>0$
- The higher the value of γ , the more sensitive you are to T°

Isothermal reaction