Care of radon which is brought in by the seeping air and consumed by fission:

Mass Balance: Accumulation = Input - Output + Generation - Consumption

\[ V \frac{dC}{dt} = Q C_0 - Q C_i + S - k C_i V \]

1st order (OK)

At SS:
\[ C_{ss} = \frac{S}{V} \]
\[ \text{(关键技术的 \textit{For indoor air pollution})} \]

\[ Q \quad \text{air exchange rate} \]
\[ \text{in a well-insulated home} \] \quad \text{OK?} \]

\[ k = \lambda = 2.1 \times 10^{-6} \text{ day}^{-1} \]
\[ = \frac{3600 \text{ s}}{1 \text{ h}} \frac{24 \text{ h}}{1 \text{ d}} = 0.18 \text{ d}^{-1} \]

\[ C_{ss} = \frac{S}{3600} \frac{1}{1 + 0.18} = \frac{P C_i}{L} \Rightarrow S = ? \]

(See template on class website)