Assignment 6
Chapter 6
Chemical Kinetics
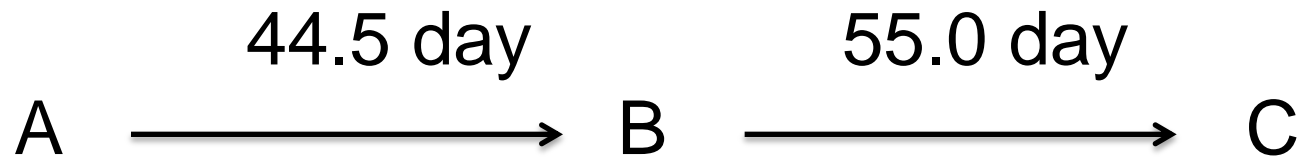
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.Two radioactive nuclides decay by successive 1st-order processes:

$$A \xrightarrow{\text{44.5 day}} B \xrightarrow{\text{55.0 day}} C$$

At what stage after A is first formed will B be most abundant?

Question 2

If the rate laws are expressed with (a) concentrations in molecules m^{-3}, (b)pressures in MPa, what are the units of the 2nd order and 3rd order rate constant? In both cases, the units of the rate itself must be in concentration or pressure per second:

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