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Summary. • Radioactive decay process governed by simple first order rate law: $-dN/dt = \lambda_{tot} N(t)$ • Decay rate is inversely proportional to half-life: $\lambda_{tot} = 0.693/T_{1/2}$. • Decay rates for one isotope are additive: $\lambda_{tot} = \lambda_{\alpha} + \lambda_{\beta}$. • Half-lives are not

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additive. • Decay chains can be modeled like a series of waterfalls.

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Solution: The hertz is used for periodic phenomena and equals the number of “cycles per second.” The curie is used for the random or stochastic rate at which a radioactive source decays, specifically, $1 \text{ Ci} = 3.7 \times 10^{10} \text{ decays/second}$. 2. Advantages of SI units are apparent when one is presented with units of barrels, ounces, tons, and many others.

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Malcolm Joyce, in Nuclear Engineering, 2018. 3.6.4 Neutron Radiation. Neutrons can arise from a variety of sources and nuclear processes associated with nuclear energy. One example is stimulated fission associated with operating reactors; this is discussed further in Chapter 4. Neutrons are also emitted in spontaneous fission, typically of the even-number transuranic

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