

## Fundamentals Of Nuclear Engineering Solutions Manual

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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:  $\lambda_{tot} = \lambda_{\alpha} + \lambda_{\beta^+} + \dots$  • Half-lives are not 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 Ci =  $3.7 \times 10^{10}$  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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Fundamentals of Nuclear Science and Engineering, 3rd edition, by J. Kenneth Shultis and Richard E. Faw . CRC Press, Boca Raton, 2017. ISBN 978-1-4987-6929-7

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