

Chapter 1

- Given the atomic mass of uranium (^{238}U) is 238.0289 u and that it has a nuclear radius of $7.5 \times 10^{-15} \text{ m}$, calculate the density of the nucleus of ^{238}U . Hence, estimate the mass of a fuel pellet of diameter 10 mm and height 8 mm if it were possible for it to be comprised entirely of uranium with the composition of its nucleus.

Answer

Assuming the ^{238}U nucleus is spherical, the volume V is:

$$V = \frac{4}{3} \pi r^3 = \frac{4}{3} \pi (7.5 \times 10^{-15})^3 \sim 1.8 \times 10^{-42} \text{ m}^3$$

The mass m_U of 1 atom of ^{238}U is:

$$m_U = 238.0289 \times 1.66 \times 10^{-27} = 4.0 \times 10^{-25} \text{ kg}$$

Hence, the density ρ is as follows:

$$\rho = \frac{4.0 \times 10^{-25}}{1.8 \times 10^{-42}} = 2.2 \times 10^{17} \text{ kg m}^{-3}$$

Thus the mass of the pellet would be:

$$m = 2.2 \times 10^{17} \times \pi (5 \times 10^{-3})^2 \times 8 \times 10^{-3} = 1.4 \times 10^{11} \text{ kg}$$

- Caesium-137 decays via β decay to an excited state of barium-137 which decays subsequently via the emission of a single γ ray having an energy of 662 keV. Convert this energy to joules. How many ^{137}Cs γ rays would need to be absorbed by 1 kg of water to raise its temperature by 1 °C if its specific heat capacity is $4.2 \text{ kJ kg}^{-1} \text{ °C}^{-1}$?

Answer

$$1 \text{ keV} = 1.6 \times 10^{-16} \text{ J}$$

$$E_\gamma = 662 \times 1.6 \times 10^{-16}$$

$$= 1.06 \times 10^{-13} \text{ J}$$

$$E = mc\Delta T$$

$$= 1 \times 4200 \times 1$$

$$= 4200 \text{ J}$$

$$N_\gamma = \frac{4200}{1.06 \times 10^{-13}} = 4.0 \times 10^{16} \text{ } \gamma \text{ rays}$$

Solution Manual For Nuclear Reactor

Alan Victor Jones



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Modelling and Solution Techniques for Multiphase Flow Alan Victor Jones, 1987 Materials presented at the Inspira Courses Seminar held in Inspira Italy Nov 1985 provide general principles and applications for the appreciation of the similarities and differences in the approaches taken An explanation of the physical nature of the particular multiphase flow application is followed by a presentation of the model adopted emphasizing its distinguishing features The technique employed for the numerical solution is discussed usually supported by numerical results No index Book club price 117 Annotation copyrighted by Book News Inc Portland OR U.S. Government Research & Development Reports ,1967

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