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$\rho = 737 \text{ kg/m}^3$; $1 \text{ gal} = 3.788 \text{ L} = 3.788 \times 10^{-3} \text{ m}^3$. The massa of a ^{235}U nucleus is $235m_p$, then. (a) for 1 gallon, $m = \rho V = (737 \text{ kg/m}^3)(3.788 \times 10^{-3} \text{ m}^3) = 2.79 \text{ kg} = 2.79 \times 10^{-3} \text{ g}$. So, $(1.3 \times 10^8 \text{ J}) / (2.79 \times 10^{-3} \text{ g}) = 4.7 \times 10^5 \text{ J/g}$. (b) 1 g contains $(1.00 \times 10^{-3} \text{ kg}) / (235m_p) = 2.55 \times 10^{21} \text{ nuclei}$.

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Verify that a $2.3 \times 10^{17} \text{ kg}$ mass of water at normal density would make a cube 60 km on a side, as claimed in Example. (This mass at nuclear density would make a cube 1.0 m on a side.) Solution. $m = \rho V = \rho a^3 \Rightarrow a = (m/\rho)^{1/3} = (2.3 \times 10^{17} \text{ kg} / 1000 \text{ kg/m}^3)^{1/3} = 61 \times 10^3 \text{ m} = 61 \text{ km}$. 33.

31.E: Radioactivity and Nuclear Physics (Exercises ...

Solution: Isotopes are elements with same atomic number but different mass numbers. That means the isotopes of an element have same number of protons and electrons but different number of neutrons. The electrons are responsible for chemical reactions. Chapter 32 Nuclear Physics and Nuclear Radiation Q.6P.

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nuclear physics classification, including hyperfine interactions, particle physics, nuclear astrophysics, and general applications including nuclear medicine. The emphasis here is on the overlap with other physics and nonphysics specialties, including atomic physics, high-energy physics, cosmology, chemistry, and medicine.

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The Bohr radius of the hydrogen atom and the Compton wavelength of an electron are given by $a_0 = \frac{h^2}{m_e e^2}$ and $\lambda_c = \frac{h}{m_e c}$ respectively. Hence $\frac{\lambda_c}{a_0} = \frac{1}{2\pi} \left(\frac{e^2}{c} \right) = \frac{1}{137} \cdot 2\pi = \frac{1}{137} \cdot 6.28 = 0.0458$, where $\frac{1}{137}$ is the fine-structure constant. Hence the answer is (a). 1004

Estimate the electric field needed to pull an electron out of an atom in

Problems and Solutions

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(6) complete solutions to the end-of-chapter problems in the text. Perhaps the greatest influence on my teaching in the time since the publication of the 2nd edition of this textbook (1996) has been the growth into maturity of the field of physics education research (PER). Rather than indicating specific areas of

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