13 Al -> "e + 26 Ma 48K -> = e + 40 G balance nuclear reaction equations aluminum-26 undergoes positron emission potassium-40 undergoes beta decay (electron) 238 () -> 4 He + 234 Th uranium-238 undergoes alpha decay electron configurations 152 25226 35236 451345 Write the electron configuration for C. Write the electron configuration for Cr. Write the shorthand notation for Bi. De] 65244145 110603 NOMENCLATURE [naming compounds, writing formulas] Write the formula for each of the following compounds: a. Sulfur hexafluoride SFS b. Lithium nitride Link c. Chromium (III) carbonate Cr2 ((0))3 d. Tin (II) chloride Sn Ce2 e. Ammonium acetate NHUCZHOR (OF CHOCOONHY) f. Mercury (I) chloride Hazelz g. Potassium bromate KBrog h. Hydrosulfuric acid H2 Some i. Chloric acid Sulfurous acid 42300 Name each of the following compounds. a Cuso, copper (II) sulfate aluminum flooride b. AIF. c. HI d. NO narosen monovale c. H₂Sc (40) hydroselen ic acid f. HNO, notric acid narous acrd g. HNO: NaHSO_a Soulden

Half-life

Tritium (H-3) is a radioactive isotope of hydrogen with a half-life of 12.3 years. How long would it takes for a 40.0 g sample to decay down to 1.25 g? 40 -> 20 -> 10 -> 5 -> 2.5 -> 1.25 ->

Fe-61 has a half-life of 6.00 min. Of a 100.0 mg sample, how much will remain after 18.0 min?

3 half lives 100-750-25-3 [2.5 mg]

Average atomic mass

The element copper has naturally occurring isotopes with mass numbers of 63 and 65,

The relative abundance and atomic masses are 69.2% for a mass of 63amu and 30.8% for a mass of 65amu. Calculate the average atomic mass of copper.

63
$$\times .692 = 43.596 \rightarrow 49$$

65 $\times .309 = 20.02 \rightarrow 20.$
 $\frac{+}{63.62} \rightarrow 64$

Modern Chemistry Study Guide Section Review Answers

Clifford Lane

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