

Chapter 25: NUCLEAR CHEMISTRY

The number and arrangement of its electrons dominate the chemical reactivity and physical properties of an atom.

Hence, we focus on electron configurations in chemistry.

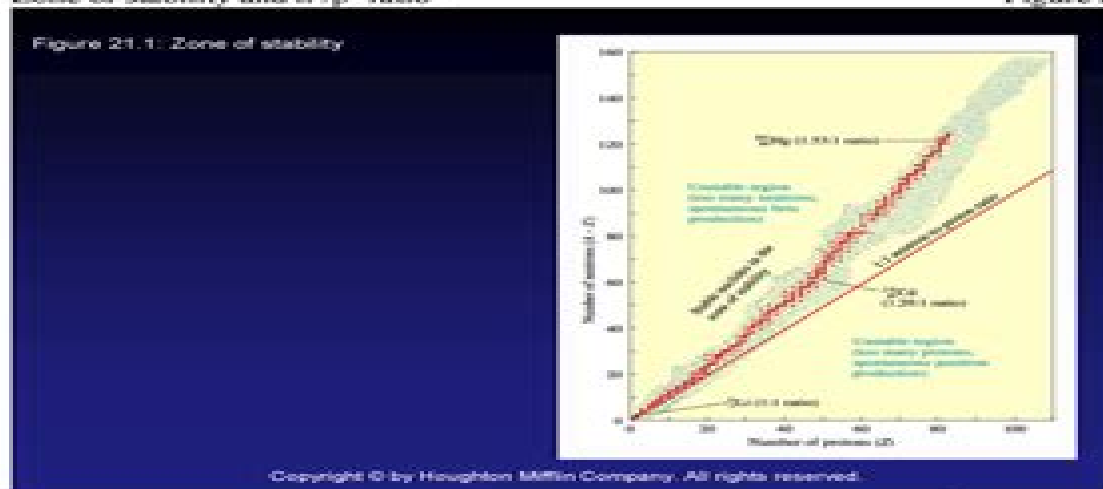
However, we live in a world with nuclear power plants, nuclear weapons, and medical applications of radioactive isotopes, including waste from their use and production.

Nuclear radiation can break chemical bonds, including bonds in DNA.

§25-7 Nuclear stability

Zone of stability and n^0/p^+ ratio

Figure 25-7: Zumdahl 4th Fig 21.1



neutrons and protons are attracted to each other, so the more neutrons, [What?]

p^+ = proton

n^0 = neutron

e^- = electron

Stable nuclei most likely have even number of p^+ & even number of n^0 (Table 25-3)

Number of p^+	Number of n^0	Number of naturally occurring stable nuclides	Examples
even	even	163	^4He , ^{12}C , ^{16}O , ^{18}O , ^{20}Ne
even	odd	55	^3He , ^7Be , ^{13}C , ^{17}O , ^{21}Ne
odd	even	50	^7Li , ^{11}B , ^{14}N , ^{19}F , ^{23}Na
odd	odd	4	^2H , ^6Li , ^{10}B , ^{14}N

Shell model for nucleus gives magic numbers: 2, 8, 20, 28, 50, 82, 114 (for p^+), 126 (for n^0)

<http://www.nndc.bnl.gov/nudat2/>

Brookhaven National Laboratory puts # neutrons on x axis

§25-1 Nuclear reactions destroy atoms -- contrary to Dalton's Atomic Theory
But Mass number = # nucleons (p^+ & n^0) is unchanged

\implies mass is approximately conserved

Mass-energy is conserved. $\Delta E = (\Delta m)c^2$

Charge is conserved.

Chapter 25 Nuclear Chemistry Study Guide For Content Mastery

Yijin Wang



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Federal Register, 2016 Bulletin of the Atomic Scientists, 1970-06 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world **Transactions of the American Nuclear Society**, 1996 **Bibliography of Agriculture**, 1986 Bulletin of the Atomic Scientists, 1972-10 The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security Founded by Manhattan Project Scientists the Bulletin s iconic Doomsday Clock stimulates solutions for a safer world

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web in the flow chart it looks like you are saying that the largest amount of bf is added to the top of the batter ingredients and left unmixed for 1 4 hours fermenting before mixing the dough is that really what rlb advises in her recipe

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web bread processing flow chart bread manufacturing process consists of following stages before we get the final product
mixing process dividing process intermediate proofing moulding panning final proofing baking depanning cooling slicing
bread making process consists of skills of baker and few set parameters to get good quality bread sponsored ad

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simplify mixes the raw material ingredients i e flour with other raw materials to produce the required batter baking oven it
san oven with integrated conveyor in which food is cooked as it moves through the oven over conveyor

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web the process flow diagram shown below in fig 1 clearly shows the sequence of stages in the baking process there are two
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web the entire bakery products can be divided into different segments such as flour wheat and refining researchgate the professional network for scientists fig 1 uploaded by dr vijay

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web figure 4 shows the process flow for baking each cupcake this indicates how each cupcake was baked under the dif ferent scenarios for example using the same recipe for the batter but

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