

# CHAPTER 24 NUCLEAR REACTIONS AND THEIR APPLICATIONS

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- 24.1 a) Chemical reactions are accompanied by relatively small changes in energy while nuclear reactions are accompanied by relatively large changes in energy.  
 b) Increasing temperature increases the rate of a chemical reaction but has no effect on a nuclear reaction.  
 c) Both chemical and nuclear reaction rates increase with higher reactant concentrations.  
 d) If the reactant is limiting in a chemical reaction, then more reactant produces more product and the yield increases in a chemical reaction. The presence of more radioactive reagent results in more decay product, so a higher reactant concentration increases the yield in a nuclear reaction.

- 24.2 a) The percentage of sulfur atoms that are sulfur-32 is 95.02%, the same as the relative abundance of  $^{32}\text{S}$ .  
 b) The atomic mass is larger than the isotopic mass of  $^{32}\text{S}$ . Sulfur-32 is the lightest isotope, as stated in the problem, so the other 5% of sulfur atoms are heavier than 31.972070 amu. The average mass of all the sulfur atoms will therefore be greater than the mass of a sulfur-32 atom.

- 24.3 a) She found that the intensity of emitted radiation is directly proportional to the concentration of the element in the various samples, not to the nature of the compound in which the element occurs.  
 b) She found that certain uranium minerals were more radioactive than pure uranium, which implied that they contained traces of one or more as yet unknown, highly radioactive elements. Pitchblende is the principal ore of uranium.

- 24.4 Radioactive decay that produces a different element requires a change in atomic number ( $Z$ , number of protons).

${}_Z^AX$	$A$	=	mass number (protons + neutrons)
	$Z$	=	number of protons (positive charge)
	$X$	=	symbol for the particle
	$N$	=	$A - Z$ (number of neutrons)

- a) Alpha decay produces an atom of a different element, i.e., a daughter with two less protons and two less neutrons.



- b) Beta decay produces an atom of a different element, i.e., a daughter with one more proton and one less neutron. A neutron is converted to a proton and  $\beta$  particle in this type of decay.



- c) Gamma decay does not produce an atom of a different element and  $Z$  and  $N$  remain unchanged.



- d) Positron emission produces an atom of a different element, i.e., a daughter with one less proton and one more neutron. A proton is converted into a neutron and positron in this type of decay.



- e) Electron capture produces an atom of a different element, i.e., a daughter with one less proton and one more neutron. The net result of electron capture is the same as positron emission, but the two processes are different.



A different element is produced in all cases except (c).

- 24.5 The key factor that determines the stability of a nuclide is the ratio of the number of neutrons to the number of protons, the  $N/Z$  ratio. If the  $N/Z$  ratio is either too high or not high enough, the nuclide is unstable and decays.



# Reinforcement Chapter 24 Nuclear Reactions

**RJ Shavelson**



## **Reinforcement Chapter 24 Nuclear Reactions:**

**Nuclear Science Abstracts** ,1970      **The Evolution of Nuclear Strategy** Lawrence Freedman,Jeffrey

Michaels,2019-07-31 The Evolution of Nuclear Strategy quickly established itself as a classic when it first appeared in 1981 This edition makes it even better incorporating as it does new material about the Cold War and up dating to include subsequent developments Filled with insights and penetrating analysis this volume is truly indispensable Robert Jervis Author of How Statesmen Think Freedman and Michaels have written a thorough and thought provoking guide to nuclear strategy The authors analyze the causes of both wise and unwise strategic decisions in the past and thereby shine a bright light on dilemmas we face in our common nuclear future Scott Sagan Stanford University USA With its comprehensive coverage clear and direct language and judicious summaries of a vast literature this new and wholly revised edition of The Evolution of Nuclear Strategy will be essential reading for any student of nuclear history strategic studies or contemporary international relations Matthew Jones London School of Economics and Political Science UK Sir Lawrence Freedman s The Evolution of Nuclear Strategy has been the first port of call for three generations of academics and policy makers wanting to familiarize themselves with the subject matter The success of this book could have led Professor Freedman to satisfy himself with regular updates or afterwords But the tireless author is now gracing us with an entirely revised edition of his masterpiece nearly forty years after its initial publication taking into account findings from archives and declassified documents At the same time The Evolution of Nuclear Strategy remains true to its original purpose and spirit an easy to read manual light with footnotes focusing on policy rather than on theory and thus the best possible introduction to an arcane subject In an era when nuclear strategy issues seem to be becoming relevant again its historical scope and breadth will make its reading or re reading even more useful if only because knowing about the absurdity of the Cold war arms race is a prerequisite if one does not want to repeat its mistakes Bruno Tertrais Deputy Director Fondation pour la Recherche Stratigique France This updated and improved edition of the classic text on the evolution of nuclear strategy is a must read for anyone attempting to understand the nuclear predicament and where it is heading Impressive in every respect T V Paul James McGill Professor of International Relations McGill University Canada and the author of The Tradition of Non Use of Nuclear Weapons After the end of the Cold War we hoped for a world in which nuclear weapons would have low salience or might even disappear into virtual non assembled arsenals Alas they are coming to the fore again With changes in political context and technology it is thus pressing that the Bible on the Evolution of Nuclear Strategy should be updated Lawrence Freedman s great classic has been admirably updated with the help of Jeff Michaels The work just as its previous editions thus remains the definitive and authoritative point of reference on nuclear strategy in the twenty first century Beatrice Heuser Chair of International Relations University of Glasgow Scotland First published in 1981 Lawrence Freedman s The Evolution of Nuclear Strategy was immediately acclaimed as the standard work on the history of attempts to cope militarily

and politically with the terrible destructive power of nuclear weapons It has now been completely rewritten drawing on a wide range of new research and updated to take account of the period following the end of the cold war and covering all nuclear powers

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