

## **Chemistry: Chapter 2- Atoms and Radioactivity**

### Outline:

- 2.1: Atoms and Their Components
- 2.2: Atomic Number and Mass Number
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- 2.6: Radiation Units and Half-Lives
- 2.7: Medical Applications for Radioisotopes

### **2.1: Atoms and Their Components**

Subatomic Particles- small parts that organize to form all atoms.

- The THREE basic subatomic particles are protons, neutrons, and electrons.

Protons + Electrons are charged particles; that is, they have electrical properties

Neutrons, as their name implies, are neutral, or uncharged.

\*Protons have a positive (+) charge, and electrons have a negative (-) charge.

\*Overall, atoms have NO CHARGE because the number of protons is equal to the number of electrons

### Structure of an Atom:

Nucleus- where protons and neutrons are clustered together in.

Electron Cloud- is the space occupied by the electrons

Atomic Mass Unit (amu)- the unit when discussing the mass of atoms.

### **2.2: Atomic Number and Atomic Mass**

-Atoms of the same element always have the same number of protons.

Atomic Number- the number of protons present in an atom.

For example:

Lithium, atomic number 3, contains three protons. All atoms of lithium have three protons.

Because atoms are neutral (no charge), the number of electrons is equal to the number of protons.

So Lithium has 3 electrons.

Mass Number- the number of neutrons in an atom.

\*Protons + Neutrons = Mass #

Once the atomic number and the mass number for a given atom is known, you can determine the number of subatomic particles.

We can represent an atom with its mass number and atomic number in **symbolic notation**:

# Chapter 2 Review Chemistry

**Kevin T. Patton, Gary A. Thibodeau**



## Chapter 2 Review Chemistry:

*Hazmat Chemistry Study Guide (Second Edition)* Jill Meryl Levy, 2011      **Foundations of College Chemistry** Morris Hein, Susan Arena, Cary Willard, 2023 Foundations of College Chemistry 16th edition presents chemistry as a modern vital subject and is designed to make introductory chemistry accessible to all beginning students It is intended for students who have never taken a chemistry course or those who had a significant interruption in their studies but plan to continue with the general chemistry sequence The central focus is to make chemistry interesting and understandable and teach students the problem solving skills they will need This International Adaptation offers new and updated content with improved presentation of all course material It builds on the strengths of previous editions including clear explanations and step by step problem solving The material emphasizes real world applications of chemistry as the authors develop the principles that form the foundation for the further study of chemistry There is new and expanded coverage of polarizing power and polarizability Fajans rules collision number and mean free path abnormal molecular masses and van t Hoff factor and applications of radioactivity      Fourier Transforms in NMR, Optical, and Mass Spectrometry A.G. Marshall, F.R. Verdun, 2016-02-25 Written by spectroscopists for spectroscopists here is a book which is not only a valuable handbook and reference work but also an ideal teaching text for Fourier transform methods as they are applied in spectroscopy It offers the first unified treatment of the three most popular types of FT spectroscopy with uniform notation and complete indexing of specialized terms All mathematics is self contained and requires only a knowledge of simple calculus The main emphasis is on pictures and physical analogs rather than detailed algebra Instructive problems presented at the end of each chapter offer extensions of the basic treatment Solutions are given or outlined for all problems The book offers a wealth of practical information to spectroscopists Non ideal effects are treated in detail noise source and detector limited non linear response limits to spectrometer performance based on finite detection period finite data size mis phasing etc Common puzzles and paradoxes are explained e g use of mathematically complex variables to represent physically real quantities interpretation of negative frequency signals on resonance vs off resonance response interpolation when it helps and when it doesn't ultimate accuracy of the data differences between linearly and circularly polarized radiation multiplex advantage or disadvantage etc Chapter 1 introduces the fundamental line shapes encountered in spectroscopy from a simple classical mass on a spring model The Fourier transform relationship between the time domain response to a sudden impulse and the steady state frequency domain response absorption and dispersion spectra to a continuous oscillation is established and illustrated Chapters 2 and 3 summarize the basic mathematics definitions formulas theorems and examples for continuous analog and discrete digital Fourier transforms and their practical implications Experimental aspects which are common to the signal Chapter 4 and noise Chapter 5 in all forms of Fourier transform spectrometry are followed by separate chapters for treatment of those features which are unique to FT MS FT optical FT NMR and other types of FT spectroscopy The list of

references includes both historical and comprehensive reviews and monographs along with articles describing several key developments The appendices provide instant access to FT integrals and fast algorithms as well as a pictorial library of common Fourier transform function pairs The comprehensive index is designed to enable the reader to locate particular key words including those with more than one name     *Dynamic Modelling & Control of National Economies 1986* B. Martos,M. Ziermann,L.F. Pau,2014-06-28 This IFAC symposium considers the modelling analysis and control of various economic and socio economic systems The volume is divided into three sections covering economic theory macroeconomic policymaking national sectoral and regional models mathematical algorithmical and computational methods of modelling giving a clear and concise view of the use of computer systems in the world of economics     Hydrothermal Circulation and Seawater Chemistry Laurence A. Coogan,Alexandra V. Turchyn,Ann G. Dunlea,Wolfgang Bach,2025-11-05 GEOPHYSICAL MONOGRAPH SERIES Hydrothermal Circulation and Seawater Chemistry Links and Feedbacks The chemical exchange between seawater and the underlying ocean crust occurs at temperatures ranging from about 2 C on the seafloor to more than 500 C deep in the crust These hydrothermal reactions strongly influence the chemical composition of seawater and in turn seawater chemistry impacts hydrothermal exchange these feedbacks play a crucial role in the Earth system Hydrothermal Circulation and Seawater Chemistry Links and Feedbacks explores on and off axis hydrothermal systems and their effects on ocean chemistry and the Earth system Volume highlights include Hydrothermal fluxes dependent on boundary conditions such as climate and sedimentation history Low temperature off axis systems that have large fluxes of elements Observational and experimental perspectives of on axis hydrothermal processes Methods for tracking hydrothermal and oceanic processes using sediments or isotope proxies The role of oceanic hydrothermal systems in planetary scale cycles on Earth and beyond The American Geophysical Union promotes discovery in Earth and space science for the benefit of humanity Its publications disseminate scientific knowledge and provide resources for researchers students and professionals

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