

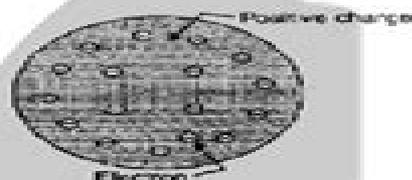
CHAPTER

02

STRUCTURE OF ATOM

Thomson Model of Atom

- (i) J.J. Thomson proposed a model in which atom was assumed to be uniform sphere with radius 10^{-8} cm of positive electricity (positive charge) with electrons embedded into it in such a way as to give the most stable electrostatic arrangement.

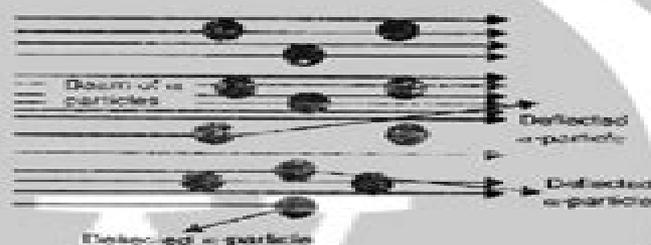


- (ii) In this model, the atom is visualized as a pudding or cake of positive charge with raisins (electrons) embedded into it. This model is also called the "raisin pudding" model.
- (iii) The mass of atom is considered to be evenly spread over the atom according to this model.

Drawback of Thomson Model of Atom. This model of atom could account for the electrical neutrality of atom, but it could not explain the results of gold foil experiment carried out by Rutherford.

- α -particles.** They are positively charged (+2) helium ions having high energy emitted during radio-active decay of unstable elements like Uranium. It has +2 charge and mass $4u$.
- Rutherford's α -Scattering Experiment (Discovery of Nucleus).** Rutherford

bombarded high energy α -particles from radioactive source on thin foil (thickness 10^{-7} m) of gold metal. The thin gold foil had a circular fluorescent ZnS screen around it. Whenever an α -particle struck the screen, a tiny flash of light was produced at that point. He observed that:



- Most of α -particles passed through the gold foil undeflected.
- A small fraction of α -particles was deflected by small angles.
- A very few α -particles (1 in 2000) bounded back, i.e., were deflected by nearly 180° .

Rutherford's Conclusions regarding Model of Atom:

- Most of space in atom is empty because most of α -particles passed through the foil.
- The positive charge has to be concentrated in a very small volume that repelled and deflected few positively charged α -particles. This very small portion of the atom was called nucleus.

Chapter Atomic Structure

Nevil Vincent Sidgwick



Chapter Atomic Structure:

Atomic Structure Prediction of Nanostructures, Clusters and Surfaces Cristian V. Ciobanu, Cai-Zhuan Wang, Kai-Ming Ho, 2013-02-14 This work fills the gap for a comprehensive reference conveying the developments in global optimization of atomic structures using genetic algorithms Over the last few decades such algorithms based on mimicking the processes of natural evolution have made their way from computer science disciplines to solid states physics and chemistry where they have demonstrated their versatility and predictive power for many materials Following an introduction and historical perspective the text moves on to provide an in depth description of the algorithm before describing its applications to crystal structure prediction atomic clusters surface and interface reconstructions and quasi one dimensional nanostructures The final chapters provide a brief account of other methods for atomic structure optimization and perspectives on the future of the field

Atomic Structure and Chemical Bond: A Problem Solving Approach Manas Chandra, 2019-05-03 particle in a box and to the hydrogen atom quantization of energy levels uncertainty principle probability distribution functions angular and radial wave functions nodal properties sectional and charge cloud representation of atomic orbitals etc have been covered in detail The valence bond and molecular orbital methods of bonding hybridization orbital structure of common hydrocarbons bonding in coordination compounds based on valence bond and ligand field theories the concept of valency ionic and covalent bonding bonding in metals secondary bond forces and so on have been discussed in a reasonable amount of detail A unique feature of the book is the adoption of a problem solving approach Thus while the text has been frequently interspersed with numerous fully worked out illustrative examples to help the concepts and theories a large number of fully solved problems have been appended at the end of each chapter totalling nearly 300 With its lucid style and in depth coverage the book would be immensely useful to undergraduate and postgraduate students of general chemistry and quantum chemistry Students of physics and materials science would also find the book an invaluable supplement

Chemistry & Atomic Structure John David Main Smith, 1924 [Class 11-12 Chemistry MCQ \(Multiple Choice Questions\)](#) Arshad Iqbal, 2019-05-17 The Class 11 12 Chemistry Multiple Choice Questions MCQ Quiz with Answers PDF College Chemistry MCQ PDF Download Quiz Questions Chapter 1 6 Practice Tests with Answer Key 11th 12th Grade Chemistry Questions Bank MCQs Notes includes revision guide for problem solving with hundreds of solved MCQs Class 11 12 Chemistry MCQ with Answers PDF book covers basic concepts analytical and practical assessment tests Class 11 12 Chemistry MCQ PDF book helps to practice test questions from exam prep notes The Class 11 12 Chemistry MCQs with Answers PDF eBook includes revision guide with verbal quantitative and analytical past papers solved MCQs Class 11 12 Chemistry Multiple Choice Questions and Answers MCQs PDF Free download chapter 1 a book covers solved quiz questions and answers on chapters atomic structure basic chemistry chemical bonding chemistry experimental techniques gases liquids and solids tests for college and university revision guide Class 11 12 Chemistry Quiz Questions and Answers PDF free

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Quantum Theory of Atomic Structure John Clarke Slater,1960 The Atomic Theory of Lucretius Contrasted with Modern Doctrines of Atoms and Evolution John Masson,1884 **ATOMIC STRUCTURE High School Chemistry Curriculum** Bud Morgan,2025-07-09 Welcome to our comprehensive guide to Atomic Structure designed specifically for high school students studying chemistry In this book we will explore the fascinating world of atoms the basic building blocks of matter and delve into the complexities of their structure Chapter 1 provides a solid foundation by introducing the concept of atoms and their historical significance in the development of modern chemistry We will examine the key scientists who contributed to our understanding of atomic structure from Democritus to Thomson Rutherford and Bohr Moving on to Chapter 2 we will explore the structure of the atom in more detail including the subatomic particles that make up an atom protons neutrons and electrons We will also discuss the concept of atomic number atomic mass and isotopes In Chapter 3 we will delve into the arrangement of electrons within an atom s electron cloud including energy levels sublevels and orbital shapes We will also discuss the principles of electron configuration and how it impacts an atom s chemical properties Chapter 4 will focus on the periodic table and how it organizes elements based on their atomic structure We will explore periodic trends such as atomic radius ionization energy and electron affinity and discuss how these trends are related to an element s position on the table In our final chapter we will discuss the significance of atomic structure in various chemical reactions including bonding stoichiometry and the behavior of gases We will also explore the importance of understanding atomic structure in fields such as biochemistry environmental science and materials science Throughout this book we will provide clear explanations helpful illustrations and interactive activities to reinforce key concepts Whether you are a visual learner a hands on learner or a theoretical learner this book is designed to meet your needs We hope that this book will not only enhance your understanding of atomic structure but also inspire you to further explore the wonders of chemistry So let s dive in and unlock the mysteries of the atom together *Iit Foundations - Chemistry Class 8* Pearson,2009-09 IIT Foundation series is specifically for students preparing for IIT right from school days The series include books from class 8 to class 10th in physics chemistry mathematics Light, Electricity, and Atomic Structure University of Chicago. College,1955

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