

CHAPTER 13

Nuclei

In the last chapter, we learnt that atomic nucleus was discovered in the year 1911 by Rutherford and his associates from the study of large angle scattering of alpha particles from the thin metal foil. In this chapter, we shall study the constituents of the nucleus and how they are held together. We shall also study different properties of nuclei such as size, mass, density and stability of nuclei and associated phenomena such as radioactivity, nuclear fission and nuclear fusion.

NUCLEUS

As per the Rutherford's experiment, it was concluded that the entire positive charge and mass of an atom was present at its very tiny centre known as nucleus.

Composition of nucleus

Nucleus is composed of two types of particles

- (i) **Protons** Positively charged particles
- (ii) **Neutrons** Neutral particles

Mass of neutron is slightly greater than the mass of the proton.

$$\text{Mass of proton, } m_p = 1.6726231 \times 10^{-27} \text{ kg}$$

$$\text{Mass of neutron, } m_n = 1.6749286 \times 10^{-27} \text{ kg}$$

$$m_p \approx 1.8-2.0 m_e, \text{ where } m_e = \text{mass of electron.}$$

Atomic number

Atomic number of an element is the number of proton present inside the nucleus of a neutral atom. It is also equal to the number of electrons revolving in various orbits around the nucleus of an uncharged atom. It is represented by Z .

Atomic number (Z) = Number of proton = Number of electron

Mass number

The total number of neutrons and protons, i.e. number of nucleons present inside the nucleus of an element is called its mass number A . Number of neutrons is represented by N .

So, **Mass number (A) = $Z + N$**

A chemical element is represented by ${}_Z$ (chemical symbol) ^{A} or ${}_Z X^A$.

Total charge of the nucleus is equal to the total charge on all protons Z in it, i.e. Ze , where $e = 1.6 \times 10^{-19} \text{ C}$.

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Atomic Nuclei Section 1 Answers

Nigel P. Cook



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ESSENTIALS OF PHYSICS SANJAY MORESHWAR WAGH, DILIP ABASAHEB DESHPANDE, 2012-09-27 Physics is our attempt to conceptually grasp all the happenings around us Then realizing that concepts are the free creations of the human mind helps us develop proper understanding of a subject especially during formative stages This introductory book on Physics presents careful analysis of the develop ments of basic concepts for the beginners It is written in a way that stimulates students and creates a sustained interest in Physics so that studying the subject is enjoyable and satisfying The physical concepts are explained clearly enough for anyone to understand In this text the exercises are provided in three different categories namely as questions as problems and as multiple choice questions The first category of exercises contains thought provoking and descriptive questions The second category of exercises involves numerical computations The third category of exercises of multiple choice questions provides a reader with a flavour of the currently popular mode of examination Intended for the introductory level college physics courses the book will also be an invaluable resource for the students preparing for various competitive examinations Key Features Readers can modify the given situation to design questions and problems Solved examples provide quantitative as well as qualitative features of physical situations encountered in the real life Students will be able to visualize the applicability of the laws of physics

Essential Cell Biology Bruce Alberts, Dennis Bray, Karen Hopkin, Alexander D Johnson, Julian Lewis, Martin Raff, Keith Roberts, Peter

Walter,2015-01-01 Essential Cell Biology provides a readily accessible introduction to the central concepts of cell biology and its lively clear writing and exceptional illustrations make it the ideal textbook for a first course in both cell and molecular biology The text and figures are easy to follow accurate clear and engaging for the introductory student Molecular detail has been kept to a minimum in order to provide the reader with a cohesive conceptual framework for the basic science that underlies our current understanding of all of biology including the biomedical sciences The Fourth Edition has been thoroughly revised and covers the latest developments in this fast moving field yet retains the academic level and length of the previous edition The book is accompanied by a rich package of online student and instructor resources including over 130 narrated movies an expanded and updated Question Bank Essential Cell Biology Fourth Edition is additionally supported by the Garland Science Learning System This homework platform is designed to evaluate and improve student performance and allows instructors to select assignments on specific topics and review the performance of the entire class as well as individual students via the instructor dashboard Students receive immediate feedback on their mastery of the topics and will be better prepared for lectures and classroom discussions The user friendly system provides a convenient way to engage students while assessing progress Performance data can be used to tailor classroom discussion activities and lectures to address students needs precisely and efficiently For more information and sample material visit <http://garlandscience.rocketmix.com>

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N. Felder,Kenny M. Felder,2015-06-12 This text is intended for the undergraduate course in math methods with an audience of physics and engineering majors As a required course in most departments the text relies heavily on explained examples real world applications and student engagement Supporting the use of active learning a strong focus is placed upon physical motivation combined with a versatile coverage of topics that can be used as a reference after students complete the course Each chapter begins with an overview that includes a list of prerequisite knowledge a list of skills that will be covered in the chapter and an outline of the sections Next comes the motivating exercise which steps the students through a real world physical problem that requires the techniques taught in each chapter **Computational Chemistry** Errol G.

Lewars,2010-11-10 This corrected second edition contains new material which includes solvent effects the treatment of

singlet diradicals and the fundamentals of computational chemistry Computational Chemistry Introduction to the Theory and Applications of Molecular and Quantum Mechanics is an invaluable tool for teaching and researchers alike The book provides an overview of the field explains the basic underlying theory at a meaningful level that is not beyond beginners and it gives numerous comparisons of different methods with one another and with experiment The following concepts are illustrated and their possibilities and limitations are given potential energy surfaces simple and extended Hueckel methods ab initio AM1 and related semiempirical methods density functional theory DFT Topics are placed in a historical context adding interest to them and removing much of their apparently arbitrary aspect The large number of references to all significant topics mentioned should make this book useful not only to undergraduates but also to graduate students and academic and industrial researchers

Introduction to Modern Physics Floyd Karker Richtmyer, 1928 **Physical Review**, 1921 Vols for 1903 include Proceedings of the American Physical Society *The Physical Review*, 1921 Vols for 1903 include Proceedings of the American Physical Society *Nuclear Physics and the Fundamental Particles* Harry H. Heckman, Paul W. Starring, 1963 *The Chemical News and Journal of Industrial Science*, 1930 **Chemical News and Journal of Industrial Science**, 1921 **Ross & Wilson Anatomy and Physiology in Health and Illness** Anne Waugh, Allison Grant, 2018-07-12 The new edition of the hugely successful Ross and Wilson Anatomy Physiology in Health and Illness continues to bring its readers the core essentials of human biology presented in a clear and straightforward manner Fully updated throughout the book now comes with enhanced learning features including helpful revision questions and an all new art programme to help make learning even easier The 13th edition retains its popular website which contains a wide range of critical thinking exercises as well as new animations an audio glossary the unique Body Spectrum online colouring and self test program and helpful weblinks Ross and Wilson Anatomy Physiology in Health and Illness will be of particular help to readers new to the subject area those returning to study after a period of absence and for anyone whose first language isn't English Latest edition of the world's most popular textbook on basic human anatomy and physiology with over 1.5 million copies sold worldwide Clear no nonsense writing style helps make learning easy Accompanying website contains animations audio glossary case studies and other self assessment material the unique Body Spectrum online colouring and self test software and helpful weblinks Includes basic pathology and pathophysiology of important diseases and disorders Contains helpful learning features such as Learning Outcomes boxes colour coding and design icons together with a stunning illustration and photography collection Contains clear explanations of common prefixes suffixes and roots with helpful examples from the text plus a glossary and an appendix of normal biological values Particularly valuable for students who are completely new to the subject or returning to study after a period of absence and for anyone whose first language is not English All new illustration programme brings the book right up to date for today's student Helpful Spot Check questions at the end of each topic to monitor progress Fully updated throughout with the latest information on common and or life

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