

Science

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(Chapter - 4) (Structure of the Atom) (Exercises)

(Class - IX)

Question 1:

Compare the properties of electrons, protons and neutrons.

Answer 1:

| Electron | Proton | Neutron |
|--|---|--|
| (i) Electron are present outside the nucleus of an atom. | (i) Proton are present in the nucleus of an atom. | (i) Neutron are present in the nucleus of an atom. |
| (ii) Electron are negatively charged | (ii) Proton are positively charged. | (ii) Neutron are neutral. |
| (iii) The mass of an electron is considered to negligible. | (iii) The mass of a proton is approximately 2000 times as the mass of an electron | (iii) The mass of neutron is nearly equal to the mass of a proton. |

Question 2:

What are the limitations of J.J. Thomson's model of the atom?

Answer 2:

According to J.J. Thomson's model of an atom, an atom consists of a positively charged sphere with electrons embedded in it. However, it was later found that the positively charged particles reside at the center of the atom called the nucleus, and the electrons revolve around the nucleus.

Question 3:

What are the limitations of Rutherford's model of the atom?

Answer 3:

According to Rutherford's model of an atom, electrons revolve around the nucleus in fixed orbits. But, an electron revolving in circular orbits will not be stable because during revolution, it will experience acceleration. Due to acceleration, the electrons will lose energy in the form of radiation and fall into the nucleus. In such a case, the atom would be highly unstable and collapse.

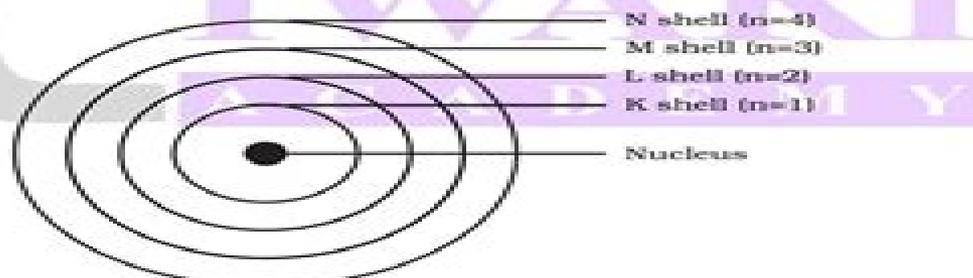
Question 4:

Describe Bohr's model of the atom.

Answer 4:

Bohr's model of the atom Niels Bohr proposed the following postulates regarding the model of the atom.

- > Only certain orbits known as discrete orbits of electrons are allowed inside the atom.
- > While revolving in these discrete orbits, the electrons do not radiate energy. These discrete orbits or shells are shown in the following diagram.



The first orbit (i.e., for $n = 1$) is represented by letter K. Similarly, for $n = 2$, it is L - shell, for $n = 3$, it is M - shell and for $n = 4$, it is N - shell. These orbits or shells are also called energy levels.

Investment Science Chapter 4

John Michels (Journalist)



Investment Science Chapter 4:

Introduction to Probability and Statistics for Science, Engineering, and Finance Walter A. Rosenkrantz, 2008-07-10
Integrating interesting and widely used concepts of financial engineering into traditional statistics courses Introduction to Probability and Statistics for Science Engineering and Finance illustrates the role and scope of statistics and probability in various fields The text first introduces the basics needed to understand and create Banker Diploma - City of London College of Economics - 7 months - 100% online / self-paced City of London College of Economics, Overview This diploma course focuses on the theory and practice of banking and its prospects in the new millennium It is written for students in banking and finance at Masters MBA or advanced undergraduate level Bank practitioners who wish to deepen and broaden their understanding of banking issues may also be attracted to this course Content What are banks and what do they do Diversification of bank activities Management of risks in banking Global regulation of banks Bank structure and regulation UK USA Japan EU Banking in emerging economies Bank failures Financial crises Competitive issues in banking Case studies Duration 7 months Assessment The assessment will take place on the basis of one assignment at the end of the course Tell us when you feel ready to take the exam and we ll send you the assignment questions Study material The study material will be provided in separate files by email download link

Fixed Income Investing Thomas Poufinas, 2022-03-28 Fixed income investments have been a topic of broad interest in particular for institutional investors such as insurance companies and pensions schemes They were considered safe heavens in turbulent times by almost all other institutional and individual investors and are used for strategies such as portfolio immunization and asset liability matching ALM The latest crisis however revealed some of the weaknesses of fixed income instruments They proved to be not as safe as originally thought with both credit and interest rate risks emerging Consequently fixed income investments have been in the spotlight once more This book presents all aspects pertaining to fixed income investments starting from the basics i e the types of bonds their valuation the interest rate term structure then moving to fixed income portfolio management and the interest rate and credit derivatives and their relevant markets funds risks and risk management Finally the book addresses contemporary issues such as their behavior in times of crisis their relation to debt their coexistence with equity and the current regulatory environment This book providing a look at the broader environment of fixed income alongside the current market structure will be of interest to students academics researchers and practitioners in fixed income and investing strategies

Financial Engineering and Computation Yuh-Dauh Lyuu, 2002 A comprehensive text and reference first published in 2002 on the theory of financial engineering with numerous algorithms for pricing risk management and portfolio management

Quantitative Fund Management M.A.H. Dempster, Gautam Mitra, Georg Pflug, 2008-12-22 The First Collection That Covers This Field at the Dynamic Strategic and One Period Tactical Levels Addressing the imbalance between research and practice Quantitative Fund Management presents leading edge theory and methods along with their application in practical problems encountered

in the fund management industry A Current Snapshot of State of the Art Applications of Dynamic Stochastic Optimization Techniques to Long Term Financial Planning The first part of the book initially looks at how the quantitative techniques of the equity industry are shifting from basic Markowitz mean variance portfolio optimization to risk management and trading applications This section also explores novel aspects of lifetime individual consumption investment problems fixed mix portfolio rebalancing allocation strategies debt management for funding mortgages and national debt and guaranteed return fund construction Up to Date Overview of Tactical Financial Planning and Risk Management The second section covers nontrivial computational approaches to tactical fund management This part focuses on portfolio construction and risk management at the individual security or fund manager level over the period up to the next portfolio rebalance It discusses non Gaussian returns new risk return tradeoffs and the robustness of benchmarks and portfolio decisions The Future Use of Quantitative Techniques in Fund Management With contributions from well known academics and practitioners this volume will undoubtedly foster the recognition and wider acceptance of stochastic optimization techniques in financial practice

Integrated Management Robert Sroufe, 2025-04-09 Building on the award winning success of the first edition Integrated Management offers Initiatives we would want to achieve regardless of their proven positive impacts on a single bottom line as they are practices that benefit the environment and society in dynamic ways that for too long have been overlooked *Quantitative Investment Analysis* CFA Institute, 2020-09-16 Whether you are a novice investor or an experienced practitioner Quantitative Investment Analysis 4th Edition has something for you Part of the CFA Institute Investment Series this authoritative guide is relevant the world over and will facilitate your mastery of quantitative methods and their application in today's investment process This updated edition provides all the statistical tools and latest information you need to be a confident and knowledgeable investor This edition expands coverage of Machine Learning algorithms and the role of Big Data in an investment context along with capstone chapters in applying these techniques to factor modeling risk management and backtesting and simulation in investment strategies The authors go to great lengths to ensure an even treatment of subject matter consistency of mathematical notation and continuity of topic coverage that is critical to the learning process Well suited for motivated individuals who learn on their own as well as a general reference this complete resource delivers clear example driven coverage of a wide range of quantitative methods Inside you'll find Learning outcome statements LOS specifying the objective of each chapter A diverse variety of investment oriented examples both aligned with the LOS and reflecting the realities of today's investment world A wealth of practice problems charts tables and graphs to clarify and reinforce the concepts and tools of quantitative investment management You can choose to sharpen your skills by furthering your hands on experience in the Quantitative Investment Analysis Workbook 4th Edition sold separately an essential guide containing learning outcomes and summary overview sections along with challenging problems and solutions *Introduction to Investments* George A. Christy, John C. Clendenin, 1982 *China Report*, 1996 **Science**

and Innovation Aldo Geuna, Ammon J. Salter, William Edward Steinmueller, 2003 The chapters in this book issue a series of challenges to the next generation of science and technology policy *Moody's Manual of Investments: American and Foreign* ,1924 **Report on Science and Technology Plan for Chemical Industry** India. National Committee on Science and Technology. Panel on Chemical Industry, 1973 **National Science Council Review** ,2007 **Science** John Michels (Journalist), 1889 **The Saturday Review of Politics, Literature, Science and Art** ,1877 **The Training of Teachers for the Country Schools of Wisconsin** Annie Reynolds, 1917 **An Introduction to Management Science** David Ray Anderson, John S. Loucks, 2000 *Mathematics for Agriculture and Elementary Science* Harry Burgess Roe, David Eugene Smith, William David Reeve, 1928 **British Journal of Dental Science** ,1930 Current Literature on Science of Science ,1999

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