

## HOLT MODERN CHEMISTRY -- CHAPTER 3 REVIEW

*The following pages contain the bulk (but not all) of the information for the chapter 3 test. Focus on this content, but make sure to review class notes, activities, handouts, questions, etc. If you study this document and NOTHING else, you should at least be able to PASS the test. \*\*\*\*\* Test items will be recall, examples, and/or application of this content. \*\*\*\*\**

### OUTCOMES

- 3.1: Explain law of conservation of mass (*T & R*)
- 3.1-3.2: Explain how the atom changed over time (Rutherford - Bohr models) (*F & PK*)
- 3.3: Contrast the nature and properties of the three subatomic particles: proton, neutron, and electron (*T & R*)
- 3.3: Use atomic number and mass number to find the number of subatomic particles of any given atom (*F & PK*)
- 3.3: Draw contrasting Bohr models of isotopes (*F & PK*)
- 3.3: Define mole and Avogadro's number (*T & R*)

### 3.1 THE ATOM: FROM PHILOSOPHICAL IDEA TO SCIENTIFIC THEORY

- **Vocabulary**
  - **law of conservation of mass** -- the law that states that mass cannot be created or destroyed in ordinary chemical and physical changes
  - **law of definite proportions** -- the law that states that a chemical compound always contains the same elements in exactly the same proportions by weight or mass
  - **law of multiple proportions** -- the law that states that when two elements combine to form two or more compounds, the mass of one element that combines with a given mass of the other is in the ratio of small whole numbers
- **Chapter Highlights**
  - The idea of atoms has been around since the time of the ancient Greeks. In the nineteenth century, John Dalton proposed a scientific theory of atoms that can still be used to explain properties of most chemicals today.
  - Matter and its mass cannot be created or destroyed in chemical reactions.
  - The mass ratios of the elements that make up a given compound are always the same, regardless of how much of the compound there is or how it was formed.
  - If two or more different compounds are composed of the same two elements, then the ratio of the masses of the second element combined with a certain mass of the first element can be expressed as a ratio of small whole numbers.

### 3.2 THE STRUCTURE OF THE ATOM

- **Vocabulary**
  - **atom** -- the smallest unit of an element that maintains the chemical properties of that element
  - **nuclear forces** -- the interaction that binds protons and neutrons, protons and protons, and neutrons and neutrons together in a nucleus
- **Chapter Highlights**
  - Cathode-ray tubes supplied evidence of the existence of electrons, which are negatively charged subatomic particles that have relatively little mass.
  - Rutherford found evidence for the existence of the atomic nucleus by bombarding gold foil with a beam of positively charged particles.
  - Atomic nuclei are composed of protons, which have an electric charge of +1, and (in all but one case) neutrons, which have no electric charge.
  - Atomic nuclei have radii of about 0.001 pm (pm = picometers;  $1 \text{ pm} \times 10^{-12} \text{ m}$ ), and atoms have radii of about  $40\text{--}270 \text{ pm}$ .

# Holt Modern Chemistry Chapter 3

**S Ashworth**



### Holt Modern Chemistry Chapter 3:

**Modern Chemistry** Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2001      *KY HS Test Prac Wkbks W/Corr Sci 2001* Holt Rinehart & Winston, 2002-03      **Biology**, 1998      Modern Physical Chemistry G.H. Duffey, 2013-11-11 In this new textbook on physical chemistry fundamentals are introduced simply yet in more depth than is common Topics are arranged in a progressive pattern with simpler theory early and more complicated theory later General principles are induced from key experimental results Some mathematical background is supplied where it would be helpful Each chapter includes worked out examples and numerous references Extensive problems review and discussion questions are included for each chapter More detail than is common is devoted to the nature of work and heat and how they differ Introductory Caratheodory theory and the standard integrating factor for dGrev are carefully developed The fundamental role played by uncertainty and symmetry in quantum mechanics is emphasized In chemical kinetics various methods for determined rate laws are presented The key mechanisms are detailed Considerable statistical mechanics and reaction rate theory are then surveyed Professor Duffey has given us a most readable easily followed text in physical chemistry      *Basic Chemistry for Water and Wastewater Operators* Darshan Singh Sarai, 2005-06      **The Investigation of Organic Reactions and Their Mechanisms** Howard Maskill, 2008-04-15 A range of alternative mechanisms can usually be postulated for most organic chemical reactions and identification of the most likely requires detailed investigation Investigation of Organic Reactions and their Mechanisms will serve as a guide for the trained chemist who needs to characterise an organic chemical reaction and investigate its mechanism but who is not an expert in physical organic chemistry Such an investigation will lead to an understanding of which bonds are broken which are made and the order in which these processes happen This information and knowledge of the associated kinetic and thermodynamic parameters are central to the development of safe efficient and profitable industrial chemical processes and to extending the synthetic utility of new chemical reactions in chemical and pharmaceutical manufacturing and academic environments Written as a coherent account of the principal methods currently used in mechanistic investigations at a level accessible to academic researchers and graduate chemists in industry the book is highly practical in approach The contributing authors an international group of expert practitioners of the techniques covered illustrate their contributions by examples from their own research and from the relevant wider chemical literature The book covers basic aspects such as product analysis kinetics catalysis and investigation of reactive intermediates It also includes material on significant recent developments e g computational chemistry calorimetry and electrochemistry in addition to topics of high current industrial relevance e g reactions in multiphase systems and synthetically useful reactions involving free radicals and catalysis by organometallic compounds      *An Introduction to Atmospheric Physics* Robert G. Fleagle, Joost A. Businger, 1981-01-09 This book is addressed to those who wish to understand the relationship between atmospheric phenomena and the nature of matter as expressed in the principles of physics The interesting atmospheric

phenomena are more than applications of gravitation of thermodynamics of hydrodynamics or of electrodynamics and mastery of the results of controlled experiment and of the related theory alone does not imply an understanding of atmospheric phenomena This distinction arises because the extent and the complexity of the atmosphere permit effects and interactions that are entirely negligible in the laboratory or are deliberately excluded from it the objective of laboratory physics is by isolating the relevant variables to reveal the fundamental properties of matter whereas the objective of atmospheric physics or of any observational science is to understand those phenomena that are characteristic of the whole system For these reasons the exposition of atmospheric physics requires substantial extensions of classical physics It also requires that understanding be based on a coherent way of seeing the ensemble of atmospheric phenomena Only then is understanding likely to stimulate still more general insights

### **Molecular Physics and Elements of Quantum Chemistry**

Hermann Haken, Hans Christoph Wolf, 2013-03-09 This textbook is intended for use by students of physics physical chemistry and theoretical chemistry The reader is presumed to have a basic knowledge of atomic and quantum physics at the level provided for example by the first few chapters in our book The Physics of Atoms and Quanta The student of physics will find here material which should be included in the basic education of every physicist This book should furthermore allow students to acquire an appreciation of the breadth and variety within the field of molecular physics and its future as a fascinating area of research For the student of chemistry the concepts introduced in this book will provide a theoretical framework for his or her field of study With the help of these concepts it is at least in principle possible to reduce the enormous body of empirical chemical knowledge to a few fundamental rules those of quantum mechanics In addition modern physical methods whose fundamentals are introduced here are becoming increasingly important in chemistry and now represent indispensable tools for the chemist As examples we might mention the structural analysis of complex organic compounds spectroscopic investigation of very rapid reaction processes or as a practical application the remote detection of pollutants in the air

**Physical Chemistry** Robert G. Mortimer, 2000-04-28 This new edition of Robert G Mortimer's Physical Chemistry has been thoroughly revised for use in a full year course in modern physical chemistry In this edition Mortimer has included recent developments in the theories of chemical reaction kinetics and molecular quantum mechanics as well as in the experimental study of extremely rapid chemical reactions While Mortimer has made substantial improvements in the selection and updating of topics he has retained the clarity of presentation the integration of description and theory and the level of rigor that made the first edition so successful Emphasizes clarity every aspect of the first edition has been examined and revised as needed to make the principles and applications of physical chemistry as clear as possible Proceeds from fundamental principles or postulates and shows how the consequences of these principles and postulates apply to the chemical and physical phenomena being studied Encourages the student not only to know the applications in physical chemistry but to understand where they come from Treats all topics relevant to undergraduate physical chemistry

**The**

**Township and Community High School Movement in Illinois** Horace Adelbert Hollister,1917 *Bulletin* ,1917

**Science and Technology in World History, Volume 4** David Deming,2016-04-13 The history of science is a story of human discovery intertwined with religion philosophy economics and technology The fourth in a series this book covers the beginnings of the modern world when 16th century Europeans began to realize that their scientific achievements surpassed those of the Greeks and Romans Western Civilization organized itself around the idea that human technological and moral progress was achievable and desirable Science emerged in 17th century Europe as scholars subordinated reason to empiricism Inspired by the example of physics men like Robert Boyle began the process of changing alchemy into the exact science of chemistry During the 18th century European society became more secular and tolerant Philosophers and economists developed many of the ideas underpinning modern social theories and economic policies As the Industrial Revolution fundamentally transformed the world by increasing productivity people became more affluent better educated and urbanized and the world entered an era of unprecedented prosperity and progress The Independent Leonard Bacon,Joseph Parrish Thompson,Richard Salter Storrs,Joshua Leavitt,Henry Ward Beecher,Theodore Tilton,Henry Chandler Bowen,William Hayes Ward,Hamilton Holt,Fabian Franklin,Harold de Wolf Fuller,Christian Archibald Herter,1914 The Scientific Imagination Gerald James Holton,1998 Using firsthand accounts gleaned from notebooks interviews and correspondence of such twentieth century scientists as Einstein Fermi and Millikan Holton shows how the idea of the scientific imagination has practical implications for the history and philosophy of science and the larger understanding of the place of science in our culture **Introduction to Atomic and Molecular Collisions** R. E. Johnson,2012-12-06 In working with graduate students in engineering physics at the University of Virginia on research problems in gas kinetics radiation biology ion materials interactions and upper atmosphere chemistry it became quite apparent that there was no satisfactory text available to these students on atomic and molecular collisions For graduate students in physics and quantum chemistry and researchers in atomic and molecular interactions there are a large number of excellent advanced texts However for students in applied science who require some knowledge and understanding of collision phenomena such texts are of little use These students often have some background in modern physics and or chemistry but lack graduate level course work in quantum mechanics Such students however tend to have a good intuitive grasp of classical mechanics and have been exposed to wave phenomena in some form e g electricity and magnetism acoustics etc Further their requirements in using collision processes and employing models do not generally include the use of formal scattering theory a large fraction of the content of many advanced texts In fact most researchers who work in the area of atomic and molecular collisions tend to pride themselves on their ability to describe results using simple theoretical models based on classical and semiclassical methods Holt on the Hcg Diet Revolution Stephen Holt MD DSc,2011-10-01 Stephen Holt MD navigates the controversies surrounding the HCG diet which has become one of the most popular weight control interventions in the practice of

Integrative Medicine in the U S The experts agree This book is another masterpiece of thought on weight control from Stephen Holt MD who is a pioneer of integrative medicine on a global basis John Salerno DO Atkins Consultant The Salerno Center New York The HCG Diet Revolution is a very thoughtful account of the reactivation of interest in the Simeons Diet that was first described in the 1950 s This book takes a cautiously optimistic approach to this diet which is still in search of an evidence base The Simeons approach was defined to improve the aesthetic outcome of weight control with improvements in body contour This book is more than mere dietary advice and it introduces important concepts concerning the impact of Metabolic Syndrome X and prepares a pathway for the increasing acceptance of laparoscopic bariatric surgery It focuses upon new challenges that face modern recognition of recalcitrant obesity TV Taylor MD Clinical Professor of Surgery University of Texas and Baylor College of Medicine Houston Texas Many mature women have discovered the benefits of the HCG diet There have been thousands of applications of this diet in the practice of integrative medicine in the past three years This topic has emerged as controversial and is the subject of much misinformation on the world wide web This book describes the putative benefits of HCG administration the importance of the diagnosis and the management of Metabolic Syndrome X and it integrates approaches to the modern increasing practice of non invasive bariatric surgical procedures Ester Mark MD Anti Aging Clinician and Women s Health Expert Laguna Hills California

*Biodegradable polymers for industrial applications* Ray Smith, 2005-05-17 The vast majority of plastic products are made from petroleum based synthetic polymers that do not degrade in a landfill or in a compost like environment Therefore the disposal of these products poses a serious environmental problem An environmentally conscious alternative is to design synthesize polymers that are biodegradable Biodegradable polymers for industrial applications introduces the subject in part one by outlining the classification and development of biodegradable polymers with individual chapters on polyhydroxyalkanoates polyesteramides and thermoplastic starch biodegradable polymers and others The second part explores the materials available for the production of biodegradable polymers Polymers derived from sugars natural fibres renewable forest resources poly lactic acid and protein nanoparticle composites will be looked at in detail in this section Part three looks at the properties and mechanisms of degradation prefacing the subject with a chapter on current standards The final part explores opportunities for industrial applications with chapters on packing agriculture and biodegradable polycaprolactone foams in supercritical carbon dioxide Biodegradable polymers for industrial applications explores the fundamental concepts concerning the development of biodegradable polymers degradable polymers from sustainable sources degradation and properties and industrial applications It is an authoritative book that will be invaluable for academics researchers and policy makers in the industry

*The Functions of Mathematical Physics* Harry Hochstadt, 2012-04-30 A modern classic this clearly written incisive textbook provides a comprehensive detailed survey of the functions of mathematical physics a field of study straddling the somewhat artificial boundary between pure and applied mathematics In the 18th and 19th centuries the

theorists who devoted themselves to this field pioneers such as Gauss Euler Fourier Legendre and Bessel were searching for mathematical solutions to physical problems Today although most of the functions have practical applications in areas ranging from the quantum theoretical model of the atom to the vibrating membrane some such as those related to the theory of discontinuous groups still remain of purely mathematical interest Chapters One and Two examine orthogonal polynomials with sections on such topics as the recurrence formula the Christoffel Darboux formula the Weierstrass approximation theorem and the application of Hermite polynomials to quantum mechanics Chapter Three is devoted to the principal properties of the gamma function including asymptotic expansions and Mellin Barnes integrals Chapter Four covers hypergeometric functions including a review of linear differential equations with regular singular points and a general method for finding integral representations Chapters Five and Six are concerned with the Legendre functions and their use in the solutions of Laplace s equation in spherical coordinates as well as problems in an n dimension setting Chapter Seven deals with confluent hypergeometric functions and Chapter Eight examines at length the most important of these the Bessel functions Chapter Nine covers Hill s equations including the expansion theorems

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web eastern lowland gorilla gorilla gorilla graueri is slightly larger in size weighing up to 220 kg 484 lbs and darker in coloration than the western lowland gorilla they live in the rainforests of central africa mountain gorilla gorilla gorilla beringei is the largest and rarest of all three subspecies adult males may weigh over 227 kg

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web the males grow to around 5 ½ feet tall and weigh around 400 pounds the females grow to 4 ½ feet tall and weigh around 200 pounds gorillas have long arms even longer than their legs they use their long arms to knuckle walk this is where they use the knuckles on their hands to walk on all fours

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web the largest of the great apes gorillas are stocky animals with broad chests and shoulders large human like hands and small eyes set into hairless faces the two gorilla species live in equatorial africa separated by about 560 miles of congo basin forest each has a lowland and upland subspecies

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web synonyms pseudogorilla elliot 1913 gorillas are herbivorous predominantly ground dwelling great apes that inhabit the tropical forests of equatorial africa the genus gorilla is divided into two species the eastern gorilla and the

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web dec 29 2022 gorilla is the genus that is commonly used to refer to two species of great apes that are divided further into four total subspecies the western gorilla gorilla gorilla is split into the western lowland gorilla with the scientific name gorilla gorilla gorilla and the cross river gorilla gorilla gorilla diehli

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web the gorilla is the largest of all primates western lowland adult male gorillas gorilla gorilla gorilla are about 1 7 m 66 9 in in body length and weigh about 169 5 kg 374 lbs adult females are about 1 5 m 59 1 in in body length and weigh about 71 5 kg 158 lbs

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web gorilla genus of primates containing the largest of the apes the gorilla is one of the closest living relatives to humans only the chimpanzee and the bonobo are closer gorillas live only in tropical forests of equatorial africa most authorities recognize two species and four subspecies

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bonobos they share between 95 and 99 of our dna

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web gorillas are mainly herbivores and their diet mostly consists of bamboo fruit and leafy plants though western lowland gorillas also eat small insects adult gorillas can eat up to 30kg of food each day as roaming herbivores gorillas play a vital role in seed dispersal

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web gorillas are large apes that live in the jungles of africa there are two species of gorillas western gorillas and eastern gorillas they are the largest of the great apes and they are largest primates alive today the iucn lists both the western gorilla and the eastern gorilla species as critically endangered

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web the western gorilla gorilla gorilla is a great ape found in africa one of two species of the hominid genus gorilla large and robust with males weighing around 168 kilograms 370 lb the hair is significantly lighter in color than that of the eastern gorilla gorilla beringei and geographically isolated from them in a region at the

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