

# AP Chemistry Final Study Guide

## Unit 1: Atomic Structure and Properties (7%–9%)

- At STP, one mole of gas always occupies 22.4 L
- **Mass Spectroscopy:**
  - Atoms have different isotopes (carbon-12, carbon-14, etc) and this will affect the average atomic mass
  - The most abundant isotope will have the greatest effect
- **Coulomb's Law:**
  - The greater the charge of the nucleus, the more energy is required to ionize an electron
  - The closer an electron is to the nucleus, the more energy is required to ionize an electron
- **Electromagnetic Radiation:**
  - When atoms absorb energy, electrons jump to higher energy levels
  - When electrons drop from higher to lower energy levels, atoms give off electromagnetic radiation energy
- **Kinetic Energy of Ionized Electrons:**
  - The faster an ejected electron is going, the more kinetic energy it has
  - Electrons originally further away from the nucleus require less energy to eject, so it will have more kinetic energy
- **Electron Configuration:**
  - When entering the d-block (transition metals), the energy level drops by 1 unless you are using shorthand notation
    - Nickel:  $1s^2 2s^2 2p^6 3s^2 3p^6 3d^8 4s^2$  (notice the d-block)
    - Nickel (with shorthand):  $[\text{Ar}] 4s^2 3d^8$
- **Law of Definite Proportions:**
  - A pure chemical compound broken down into elements always contains elements of a fixed ratio, independent of where and how it was created
- **Law of Multiple Proportions:**
  - When elements form compounds, the proportions of the elements in those chemical compounds can be expressed in small whole number ratios
- **Aufbau Principle:**
  - When building up the electron configuration of an atom, electrons are placed in orbitals, subshells, and shells in order of increasing energy

# Acl Final Study Guide For Chemical Reactivity

**Chadwick Prodromos**



## **Acl Final Study Guide For Chemical Reactivity:**

*Fundamentals of Organic Chemistry, Textbook, Study Guide and Solutions Manual* T. W. Graham Solomons, 1996-08-15 A realistic approach to the study of mechanisms The book addresses real functional group chemistry with an emphasis on the biological environmental and medical applications of organic chemistry

**OTA Exam Review Manual** Karen Sladyk, 2005 Are you a student preparing for the NBCOT exam Looking for only one study guide to help you prepare for this important day Wondering what thousands of your peers and fellow students have relied on for their studying needs The answer is the OTA Exam Review Manual now available in a completely updated and revised second edition with over 550 questions This invaluable study tool is designed to guide students through the studying process from start to finish With a redesigned question format to match the NBCOT exam more questions and an on line testing component this second edition is a study guide that inspires critical thinking Karen Sladyk and her co authors incorporate domain task and knowledge style questions as a way to prepare students for the pace of the NBCOT exam This collection of questions enables students to think logically for the answers not just practice for the exam The OTA Exam Review Manual Second Edition also includes an on line testing component With 250 questions 50 more than the previous edition this feature assists students with integrated learning and the ability to maximize their computer testing skills Covering topics such as study techniques content outlines fieldwork and life after the exam the OTA Exam Review Manual Second Edition is the most current and extensive review on the market for OTA students Features Contains 550 questions 50 more than the previous edition divided into 11 one hour test period simulations Redesigned question format to match new NBCOT exam Includes a new user friendly on line testing component incorporating domain style questions from the book Worksheets time organizers and appendix resources

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Journal of the Society of Chemical Industry Society of Chemical Industry (Great Britain),1923      **EPA Publications**

**Bibliography** United States. Environmental Protection Agency,1987      **The Anterior Cruciate Ligament:**

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his contributions The volume also includes a biographical summary of Brian Spalding as a person and as a scientist as well as tributes to Brian Spalding by those whose life was impacted by his innovations This volume would be of special interest to researchers practicing engineers and graduate students in various fields including aerospace energy power and propulsion transportation combustion management of the environment health and pharmaceutical sciences *Iron & Coal Trades Review* ,1926 Vol 115 includes Diamond jubilee issue 1867 1927 *The Electrical Review* ,1928 *Review* ,1974 *Coal Abstracts* ,1986

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